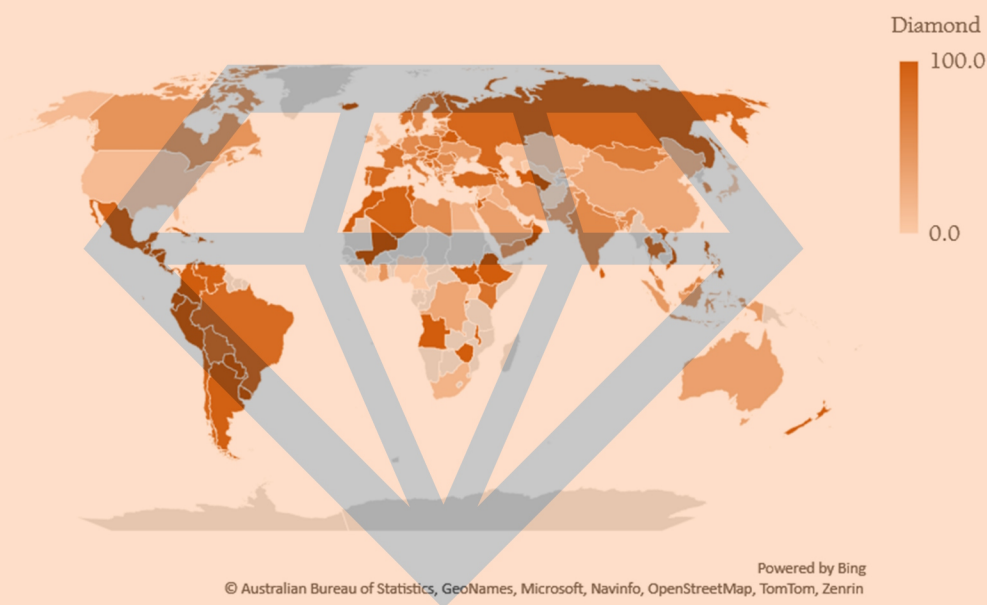


Diamond OA 2023

The World of No-Fee Open Access Journals



Walt Crawford

Diamond OA 2023:
The World of No-Fee Open
Access Journals

Walt Crawford

Cites & Insights Books
Livermore, California, 2023

Diamond OA 2023: The World of No-Fee Open Access Journals

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Preface

This book considers so-called diamond OA: no-fee open access articles in open access journals listed in the *Directory of Open Access Journals*. It covers journals as of January 1, 2023, looking at articles published 2017-2022. This book is available as a free PDF ebook or paperback priced to cover production costs.

Acknowledgments

Thanks first and foremost to SPARC. Without SPARC's sponsorship, this project would not have happened—and good advice and feedback from Raym Crow and Val Hollister improved the project.

Thanks to Linda Driver for tolerating and encouraging my ongoing obsession with getting the facts right about real-world open access.

Thanks also to Jan Erik Frantsevåg for suggesting the usefulness of examining funding sources for diamond OA journals that aren't published by societies or universities. The analysis done here is a first attempt at such an examination.

Because Gunnmaps seems to have disappeared, the map on the cover (diamond OA as a percent of gold OA) was made using Excel's internal mapping tools, which unfortunately use the Mercator projection. The diamond outline is also from Excel itself.

Links

The data used for this report is freely available, with a Creative Commons BY (attribution) license: you can do what you want with it as long as you properly credit the source. So, too, the PDF version of this book and the supplemental book are issued with CC BY licenses.

Links are at <http://waltcrawford.name/goaj.html>.

1. The Big Picture

All open access articles are freely available to read, print, and copy, without requiring registration or other roadblocks. Gold open access consists of open access articles appearing in journals without subscription or other barriers. The term “diamond OA,” used in this book, covers a subset of gold OA: gold OA articles appearing in journals that do not have author-side fees (sometimes called APCs).

All diamond OA is gold OA. Most gold OA journals—68% at the start of 2023—are diamond OA journals. But most gold OA articles—69% in 2022—are *not* diamond OA, requiring fees for publication, submission, or both. *Gold Open Access 2017-2022: Articles in Journals* (GOA8) looks at gold OA in general. This book looks at the diamond subset. In all cases, the universe is *serious* OA: journals listed in the *Directory of Open-Access Journals* (henceforth DOAJ).

While this book is to some extent patterned after the *Gold Open Access* books, the lack of fees and revenues means that many tables and chapters are simplified or omitted. One new figure—articles per journal or Art/Jrn—is added to some tables.

The overall picture for 2022, the last year covered here:

- 440,209 articles in 2022.
- 12,434 journals, of which 11,427 had 2022 articles when checked.
- Diamond OA is mostly humanities & social sciences (52% of articles and almost precisely half of journals).
- Diamond OA is almost entirely either published or funded by universities and societies and is mostly in small and medium-sized journals.
- Other than “diamond OA,” there is one key change from GOA8: publisher categories are replaced by funding categories, based on a rough investigation of where diamond OA journals not published by societies, universities, or governments get funding. See Chapter 3 for a discussion.

Data used is that gathered and created for *Gold Open Access 2017-2022*, except that no-fee journals tagged as published by OA or traditional publishers were checked (quickly) for apparent sponsoring/funding source. (See Chapter 3.)

Overall Data

The tables that follow are used throughout the book (with changes and exceptions as noted). These tables look at the entirety of the dataset.

Key Facts

	Journals	Articles	Art%	Art/J
All	12,434	440,209		35.4
H&SS	7,714	230,003	52%	29.8
Biomed	2,073	108,875	25%	52.5
STEM	2,647	101,331	23%	38.3

This table shows subject segments in descending order by article count—the most in humanities and social sciences, the fewest in STEM (science, technology, engineering and math). Art% is percentage of all articles; Art/J is articles per journal—a bit misleading in this case because 2022 articles are divided by *all* journals.

Other occurrences of this table include a “Rel%” column for the three subject segments to show *relative* concentration. So, for example, if 36% of the articles in the largest journals are in biomed, as compared to 25% overall, the Rel% is 44% (36 is 44% larger than 25).

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	11,427	11,833	11,660	11,253	10,798	10,209
Articles	440,209	459,247	413,362	375,743	370,265	348,417
Art/Jrn	38.5	38.8	35.5	33.4	34.3	34.1
Change	-4.1%	11.1%	10.0%	1.5%	6.3%	

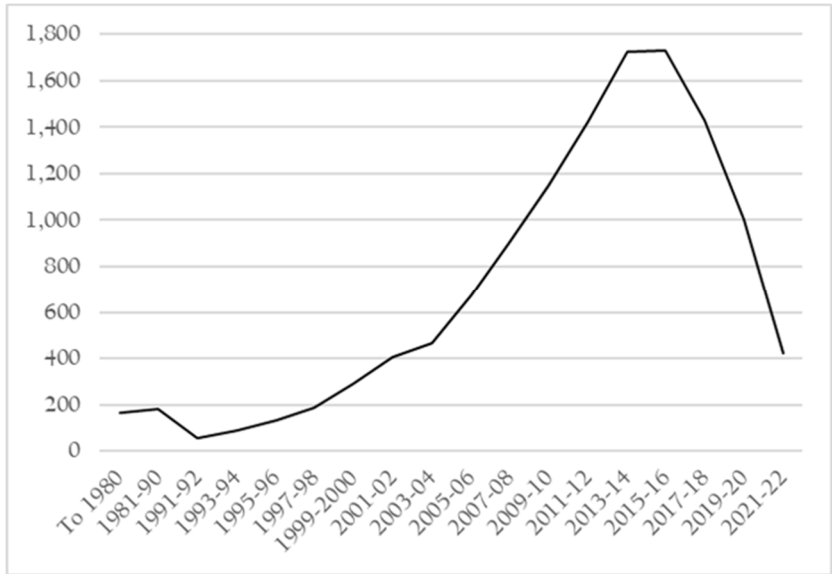
Diamond OA grew in 2020 and 2021; smaller H&SS journals are more likely to publish issues with long delays, which may explain the 2022 decline.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	45	44,980	999.6	10.2%
Large: 150-599	415	68,951	166.1	15.7%
Med.: 60-149	2,259	132,968	58.9	30.2%
Small: 20-59	6,691	171,224	25.6	38.9%
Smallest: 0-19	2,017	22,086	10.9	5.0%

Where more than one-third of all gold OA articles are in the largest journals, that's true for barely more than 10% of diamond OA articles.

Starting Date



This graph does not appear elsewhere; it's one of two lines in comparable graphs in *Gold Open Access 2017-2022* (and, especially since the starting date is when a journal started reporting to DOAJ, not terribly useful on its own).

Region

Region	Journals	Articles	Art/Jrn
Western Europe	3,024	112,549	37.2
Latin America	3,029	105,693	34.9
Eastern Europe	2,565	92,311	36.0
Asia	1,853	59,232	32.0
Middle East	990	40,268	40.7
Pacific/English	847	26,500	31.3
Africa	126	3,656	29.0

While Western Europe still leads in number of articles, it's just over a quarter of the articles and barely ahead of Latin America—whereas it's *most* of overall gold OA. Contrariwise, while Pacific/English (Australia, Canada, New Zealand and the United States) is the sixth largest region for diamond OA, it's second for overall gold.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	9,311	322,226	34.6	73.2%
Soc/Gov	1,903	108,253	56.9	24.6%
Other/Unknown	213	9,730	45.7	2.2%

Chapter 3 discusses this item in more detail. In the rest of this book, this table only appears if it's unusual—e.g., if Univ/Acad is less than 70% or greater than 80%, or if Other/Unknown is greater than 4%.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	2,255	20.0%	
Even, ±24.99%	6,143	54.6%	74.6%
Shrank 25%+	2,859	25.4%	
Total	11,257		

This table includes only journals that had at least one article in 2021 and at least one in 2022. The “Cum%” figure shows that about three-quarters of journals with articles in both years either grew or stayed about the same.

In most of the rest of this book, this table appears only if it's at least a little unusual—if growth is less than 18% or greater than 22%, or if shrinkage is less than 23% or greater than 28%.

Subjects

Subject	Journals	Articles	Art/Jrn
Medicine	1,924	103,040	53.6
Education	1,046	38,104	36.4
Language & Literature	1,011	26,377	26.1
Anthropology	850	22,490	26.5
Economics	802	22,197	27.7
Sociology	586	19,327	33.0
Law	537	16,900	31.5
Engineering	373	14,550	39.0
Political Science	426	13,030	30.6
Arts & Architecture	441	12,614	28.6
Earth Sciences	398	12,045	30.3
Physics	103	11,991	116.4
Ecology	323	11,651	36.1
Miscellany	335	11,646	34.8
Agriculture	336	11,051	32.9
History	405	11,035	27.2
Computer Science	252	8,907	35.3
Media & Communications	312	8,466	27.1
Mathematics	249	8,290	33.3
Philosophy	311	8,274	26.6
Religion	290	8,046	27.7
Other Sciences	199	7,157	36.0
Technology	147	5,981	40.7
Library Science	168	5,961	35.5
Biology	149	5,835	39.2
Psychology	194	5,536	28.5
Zoology	172	5,019	29.2
Chemistry	95	4,689	49.4

As with many other tables, this is sorted by decreasing number of 2022 articles. What’s most interesting here is not so much that Medicine is the top subject, as it is for gold OA in general, but that the next six subjects are all humanities and social sciences (usually abbreviated to H&SS), whereas the next seven subjects after Medicine for gold OA in general are either STEM or Biomed.

Country of Publication

There are 125 countries or named entities represented in this book, so a full table would require four pages. This partial table includes countries with more than 10,000 diamond OA articles in 2022.

Country	Journals	Articles	Art/Jrn
Brazil	1,433	56,010	39.1
Russia	521	32,291	62.0
Spain	901	28,731	31.9
Indonesia	1,064	22,449	21.1
United Kingdom	467	19,994	42.8
United States	580	18,253	31.5
Iran	461	18,089	39.2
Turkey	427	17,871	41.9
Poland	634	16,642	26.2
India	231	13,882	60.1
Germany	237	13,122	55.4
Italy	421	12,528	29.8
Romania	287	11,545	40.2
France	263	11,227	42.7
Colombia	422	10,373	24.6

The top three countries in gold OA output—Switzerland, the United Kingdom, and the United States—are respectively 34th, fifth, and sixth largest for diamond OA.

The Rest of the Book

Chapter 2 looks at article volume. Chapter 3 includes a discussion of the cursory research behind the new “funding category” measure and how the three broad categories differ. Chapters 4-6 cover subject segments and subjects. Chapters 7-13 cover regions, including tables

of countries and short discussions of countries with fewer than ten diamond OA journals.

Finally, Chapter 14, basically half the book, consists of profiles for countries with ten or more diamond OA journals, arranged in alphabetic order.

2. Journals by Article Volume

Journals vary widely by number of articles. This chapter looks at five broad categories of journal volume, using the peak figure to categorize journals—that is, the highest number between 2017 and 2022.

Overall

	Journals	Act.22	Articles	Art/Jrn	Percent
Largest: 600+	46	45	44,980	999.6	10.2%
Large: 150-599	430	415	68,951	166.1	15.7%
Med.: 60-149	2,369	2,259	132,968	58.9	30.2%
Small: 20-59	7,161	6,691	171,224	25.6	38.9%
Smallest: 0-19	2,428	2,017	22,086	10.9	5.0%

This table shows *all* diamond OA journals, including those with no 2022 articles, as is true for Key Facts throughout. (Going from Largest to Smallest, there were one, 15, 110, 470, and 411 journals with no 2022 articles at the time of checking. Many of the smaller journals are likely to have 2022 articles show up after April 2023.)

The remainder of this chapter consists of profiles by article volume.

Largest: Journals with 600 or More Articles

For gold OA as a whole, the largest journals published 47.2% of all articles in 2022—compared to 10.2% for diamond OA.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	46	44,980			977.8
H&SS	18	17,020	38%	-28%	945.6
Biomed	15	16,006	36%	44%	1,067.1
STEM	13	11,954	27%	15%	919.5

The largest journals are heavy on biomed and light on H&SS.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	45	46	45	43	43	40
Articles	44,980	41,982	25,109	27,524	33,670	26,535
Art/Jrn	999.6	912.7	558.0	640.1	783.0	663.4
Change	7.1%	67.2%	-8.8%	-18.3%	26.9%	

The largest journals grew in 2022, but far less rapidly than in 2021.

Subject (Top Ten)

Subject	Journals	Articles	Art/Jrn
Medicine	14	15,351	1,096.5
Physics	7	7,189	1,027.0
Education	3	3,875	1,291.7
Sociology	3	3,757	1,252.3
Engineering	4	2,253	563.3
Library Science	1	1,793	1,793.0
Chemistry	1	1,644	1,644.0
Law	2	1,524	762.0
Miscellany	4	1,483	370.8
Economics	2	1,478	739.0

Perhaps worth noting here that Library Science includes aspects of information science, including the internet and web.

Country of Publication (Top Ten)

Country	Journals	Articles	Art/Jrn
Germany	6	6,230	1,038.3
Russia	4	5,479	1,369.8
France	4	3,988	997.0
United Kingdom	2	3,436	1,718.0
Romania	3	2,907	969.0
Netherlands	4	2,549	637.3
Spain	2	2,440	1,220.0
Brazil	1	2,358	2,358.0
Iran	1	1,793	1,793.0
India	2	1,787	893.5

Large: Journals with 150 to 599 Articles

Large journals published 18.1% of gold OA articles in 2022, compared to 15.7% of diamond OA articles.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	430	68,951			160.4
H&SS	154	26,444	38%	-27%	171.7
Biomed	150	22,538	33%	32%	150.3
STEM	126	19,969	29%	26%	158.5

Also light in H&S and rich in biomed. Note that journals tend toward the bottom of this size range.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	415	418	403	396	387	370
Articles	68,951	67,574	51,785	43,563	43,423	42,135
Art/Jrn	166.1	161.7	128.5	110.0	112.2	113.9
Change	2.0%	30.5%	18.9%	0.3%	3.1%	

Very slow growth in 2022, substantial growth the two previous years.

Subject (Top Ten)

Subject	Journals	Articles	Art/Jrn
Medicine	142	21,213	149.4
Education	31	6,705	216.3
Ecology	15	3,186	212.4
Law	21	3,045	145.0
Engineering	24	3,031	126.3
Political Science	14	3,013	215.2
Economics	15	2,975	198.3
Anthropology	12	2,479	206.6
Physics	12	2,470	205.8
Computer Science	9	2,130	236.7

Medicine by far the largest, not surprisingly.

Country of Publication (Top Ten)

Country	Journals	Articles	Art/Jrn
Brazil	62	8,750	141.1
Russia	38	6,355	167.2
United Kingdom	25	4,870	194.8
United States	27	4,861	180.0
India	25	3,681	147.2
Spain	26	2,993	115.1
Turkey	21	2,981	142.0
Netherlands	14	2,823	201.6
Romania	9	2,452	272.4
China	14	2,431	173.6

Medium: Journals with 60 to 149 Articles

While medium-sized journals published 16.6% of gold OA articles in 2022, they account for 30.2% of diamond OA—but they're not the largest size category.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	2,369	132,968			56.1
H&SS	1,202	63,963	48%	-8%	53.2
Biomed	639	39,302	30%	20%	61.5
STEM	528	29,703	22%	-3%	56.3

Almost half H&SS, but that’s still a bit lean for diamond OA.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	2,259	2,297	2,276	2,217	2,153	2,056
Articles	132,968	141,730	134,919	120,831	117,435	112,458
Art/Jrn	58.9	61.7	59.3	54.5	54.5	54.7
Change	-6.2%	5.0%	11.7%	2.9%	4.4%	

Slight decline in 2022.

Subject (Top Ten)

Subject	Journals	Articles	Art/Jrn
Medicine	614	37,778	61.5
Education	221	11,728	53.1
Language & Literature	158	7,957	50.4
Anthropology	127	6,496	51.1
Economics	99	4,926	49.8
Sociology	80	4,577	57.2
Law	82	4,381	53.4
Agriculture	88	4,289	48.7
Ecology	65	3,802	58.5
Earth Sciences	62	3,588	57.9

Country of Publication (Top Ten)

Country	Journals	Articles	Art/Jrn
Brazil	477	24,389	51.1
Russia	212	12,535	59.1
Spain	151	8,387	55.5
Turkey	114	6,765	59.3
United Kingdom	77	5,393	70.0
United States	84	5,321	63.3
Poland	110	5,119	46.5
India	77	5,003	65.0
Iran	76	4,392	57.8
Indonesia	61	3,448	56.5

Small: Journals with 20 to 59 Articles

This is the sweet spot for diamond OA, with more than half of all journals and nearly 40% (38.9%) of 2022 articles, compared to 16.2% of all gold OA.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	7,161	171,224			23.9
H&SS	4,628	106,815	62%	19%	23.1
Biomed	1,066	29,273	17%	-31%	27.5
STEM	1,467	35,136	21%	-11%	24.0

Rich in H&SS, very lean in Biomed.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	6,691	6,897	6,820	6,595	6,315	5,981
Articles	171,224	183,372	178,025	162,403	155,009	147,808
Art/Jrn	25.6	26.6	26.1	24.6	24.5	24.7
Change	-6.6%	3.0%	9.6%	4.8%	4.9%	

Similar to medium, not surprisingly.

Subject (Top Ten)

Subject	Journals	Articles	Art/Jrn
Medicine	980	27,191	27.7
Language & Literature	610	14,128	23.2
Education	584	13,804	23.6
Anthropology	529	11,731	22.2
Economics	472	10,705	22.7
Sociology	364	8,794	24.2
Law	314	6,984	22.2
Arts & Architecture	272	6,182	22.7
History	252	6,151	24.4
Earth Sciences	240	5,876	24.5

Eight of the ten subjects are in H&SS.

Country of Publication (Top Ten)

Country	Journals	Articles	Art/Jrn
Brazil	822	19,983	24.3
Spain	538	13,057	24.3
Indonesia	567	11,690	20.6
Iran	347	9,312	26.8
Poland	393	8,856	22.5
Russia	242	7,779	32.1
Colombia	311	7,301	23.5
United States	302	6,766	22.4
Turkey	231	6,305	27.3
Argentina	230	5,503	23.9

Smallest: Journals with One to Nineteen Articles

The tables say “0 to 19,” but a journal has to have a peak of at least one article. 5.0% of diamond OA, compared to 1.9% for gold overall.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	2,428	22,086			9.1
H&SS	1,712	15,761	71%	37%	9.2
Biomed	203	1,756	8%	-68%	8.7
STEM	513	4,569	21%	-10%	8.9

More than 70% H&SS, very little biomed.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	2,017	2,169	2,116	2,002	1,900	1,762
Articles	22,086	24,589	23,524	21,422	20,728	19,481
Art/Jrn	10.9	11.3	11.1	10.7	10.9	11.1
Change	-10.2%	4.5%	9.8%	3.3%	6.4%	

More shrinkage here—the smallest journals tend to be latest,

Subject (Top Ten)

Subject	Journals	Articles	Art/Jrn
Economics	214	2,113	9.9
Language & Literature	232	2,064	8.9
Education	207	1,992	9.6
Anthropology	182	1,784	9.8
Medicine	174	1,507	8.7
Sociology	133	1,151	8.7
Law	118	966	8.2
Arts & Architecture	105	963	9.2
Religion	81	859	10.6
Political Science	94	737	7.8

All but one subject is in H&SS, and Medicine is fifth largest.

Country of Publication (Top Ten)

Country	Journals	Articles	Art/Jrn
Indonesia	427	4,894	11.5
Spain	184	1,854	10.1
United States	166	1,267	7.6
United Kingdom	136	977	7.2
Poland	122	937	7.7
Italy	97	814	8.4
Argentina	72	724	10.1
Colombia	70	724	10.3
Romania	85	697	8.2
Turkey	59	572	9.7

Where’s Brazil? That country tends toward small and medium-sized journals, with fewer of the smallest. Indonesia has quite a few journals that regularly publish a small number of articles each year.

3. Funding/Source Categories

Who pays?

That's not an unreasonable question for diamond OA in general, although for small journals it may be a somewhat irrelevant one. For journals published by universities (and colleges and research centers) and societies (and associations and government agencies) the answer will tend to be "costs absorbed as part of the mission of the publisher."

But what about the rest?

Jan Erik Frantsvåg raised that question and suggested that it might be worthwhile to see who provides funding for the more than 2,000 diamond OA journals that I've categorized as published by open access or traditional publishers. ("That I've categorized" is significant: even doing this casual check shows that hundreds of those journals could be categorized as published by universities, societies, government agencies or some combination of those.)

Without spending the time for a thorough examination, I did check obvious data on the websites of all diamond OA journals that were categorized as published by OA or traditional publishers. What follows is a brief and somewhat tentative discussion of the results, followed by profiles of the three funding/source categories that resulted.

The Casual Investigation

I started out planning to look at all diamond traditional publishers and those from OA publishers that also published fee-based journals. The checks went fast enough that I finally included *all* OA-publisher journals. But this was indeed a casual investigation: I looked at the home page and as much more as I could do in two or three minutes, then entered a code for what seemed to be the source of funding.

I should note that scores of journals are funded by both universities and societies: I coded them based on what appeared first.

In any case, these are the rough numbers for 2022:

Added to university/academia

Fairly clear university/research center funding: 789 journals (30,751 articles), plus 37 journals (727 articles) that appear to be funded by libraries, archives and museums.

Journals that appear to be published by individuals or groups of people who work within academia: 306 journals (13,761 articles). SCOAP3-funding: four journals (4,623 articles).

A few others, sometimes with second looks.

Added to society/government

Fairly clear society funding: 552 journals (40,807 articles). Proceedings journals, since most conferences are society-sponsored: seven journals (4,852 articles). Fairly clear government-agency funding: 48 journals (1,832 articles).

A few others, sometimes with second looks.

Other/Unknown: The remainder

This includes some 54 journals (4,801 articles) that appear to be offering zero fees as introductory or low-usage offers; 60 (2,093) with sponsors that I couldn't clearly identify as academic or society; 27 (758 articles) whose publisher I couldn't associate with another category; 23 (1,246 articles) with foundation funding that I couldn't characterize; a handful of ad-sponsored journals or subscribe-to-open cases; and 41 journals (2,525) where I was unable to reach the journal or find useful information.

The net result: Who pays?

Noting that this was a first-round last-minute check, I believe the results are reasonably correct. To wit, only a little more than 2% of diamond OA articles appear in journals that aren't either published or funded by universities, academia in general, societies and government agencies. The table that follows restates that in tabular form.

A decision that introductory “free for now” and subscribe-to-open journals should be excluded from the “diamond” appellation would have very little effect on the overall picture.

If this project continues, a second round of checking should produce clearer results.

Funding category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	9,311	322,226	34.6	73.2%
Soc/Gov	1,903	108,253	56.9	24.6%
Other/Unknown	213	9,730	45.7	2.2%

University/academia Funding

Since these represent almost three-quarters of all diamond OA, you'd expect the profile to be similar to the whole field. That's not quite true. Note that "academia" includes individuals and groups that appear to be in academic institutions.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	10,115	322,226			31.9
H&SS	6,807	195,641	61%	16%	28.7
Biomed	1,214	53,323	17%	-33%	43.9
STEM	2,094	73,262	23%	-1%	35.0

More H&SS and substantially less biomed.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	9,311	9,662	9,578	9,254	8,887	8,413
Articles	322,226	340,271	313,783	286,696	277,513	264,748
Art/Jrn	34.6	35.2	32.8	31.0	31.2	31.5
Change	-5.3%	8.4%	9.4%	3.3%	4.8%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	26	22,806	877	7.1%
Large: 150-599	265	42,144	159	13.1%
Med.: 60-149	1,687	96,395	57	29.9%
Small: 20-59	5,591	141,606	25	43.9%
Smallest: 0-19	1,742	19,275	11	6.0%

Less activity on the larger side, more on the smaller side.

Region

Region	Journals	Articles	Art/Jrn
Latin America	2,709	87,790	32.4
Eastern Europe	2,177	72,743	33.4
Western Europe	2,228	70,095	31.5
Asia	1,473	38,683	26.3
Middle East	822	33,450	40.7
Pacific/English	611	16,816	27.5
Africa	95	2,649	27.9

Latin America and Eastern Europe both outpublish Western Europe.

Subjects and Countries

The next two pages show, respectively, the full set of subjects (in decreasing order by number of 2022 articles) and as many countries as fit on one page.

Subjects

Subject	Journals	Articles	Art/Jrn
Medicine	1,103	49,332	44.7
Education	912	32,826	36.0
Language & Literature	917	23,428	25.5
Anthropology	745	19,638	26.4
Economics	698	18,671	26.7
Law	470	14,332	30.5
Sociology	513	13,904	27.1
Engineering	326	11,665	35.8
Political Science	381	11,260	29.6
Arts & Architecture	393	11,119	28.3
History	354	9,754	27.6
Physics	81	9,570	118.1
Earth Sciences	298	9,502	31.9
Miscellany	307	9,252	30.1
Agriculture	279	8,062	28.9
Religion	271	7,673	28.3
Philosophy	272	7,156	26.3
Media & Communications	266	6,874	25.8
Ecology	239	6,528	27.3
Mathematics	201	6,334	31.5
Computer Science	196	6,142	31.3
Other Sciences	157	5,352	34.1
Technology	127	5,018	39.5
Psychology	175	4,920	28.1
Library Science	133	4,834	36.3
Biology	111	3,991	36.0
Zoology	124	3,380	27.3
Chemistry	66	1,709	25.9

Country of Publication, Partial (More than 1,800 Articles)

Country	Journals	Articles	Art/Jrn
Brazil	1,249	44,776	35.8
Russia	452	24,501	54.2
Spain	755	22,550	29.9
Indonesia	1,020	21,179	20.8
Iran	417	16,712	40.1
Poland	531	13,799	26.0
Turkey	318	12,931	40.7
United States	425	11,498	27.1
Colombia	409	9,991	24.4
Italy	355	9,762	27.5
Romania	243	9,632	39.6
Germany	153	9,044	59.1
United Kingdom	278	7,220	26.0
Argentina	298	7,211	24.2
Mexico	168	6,415	38.2
Cuba	92	5,945	64.6
Ukraine	213	5,745	27.0
Netherlands	78	5,435	69.7
China	75	4,940	65.9
France	192	4,566	23.8
India	98	4,447	45.4
Portugal	118	3,964	33.6
Serbia	152	3,759	24.7
Chile	134	3,240	24.2
Canada	120	2,969	24.7
Peru	102	2,659	26.1
Croatia	98	2,631	26.8
Czechia	106	2,628	24.8
Costa Rica	71	2,365	33.3
Norway	81	2,247	27.7
Ecuador	76	2,231	29.4
Australia	55	2,158	39.2

Societies and Government

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	2,057	108,253			52.6
H&SS	826	31,896	29%	-44%	38.6
Biomed	761	51,564	48%	93%	67.8
STEM	470	24,793	23%	-1%	52.8

Very heavy on Biomed, very light on H&SS, perhaps surprisingly.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	1,903	1,945	1,869	1,797	1,715	1,618
Articles	108,253	108,451	90,852	82,643	86,987	78,250
Art/Jrn	56.9	55.8	48.6	46.0	50.7	48.4
Change	-0.2%	19.4%	9.9%	-5.0%	11.2%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	18	21,997	1,222	20.3%
Large: 150-599	136	24,069	177	22.2%
Med.: 60-149	519	32,861	63	30.4%
Small: 20-59	999	26,982	27	24.9%
Smallest: 0-19	231	2,344	10	2.2%

Predictable, since biomed journals tend to be larger.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	666	37,487	56.3
Asia	340	19,381	57.0
Eastern Europe	342	18,264	53.4
Latin America	318	17,685	55.6
Pacific/English	207	8,253	39.9
Middle East	155	6,248	40.3
Africa	29	935	32.2

Also predictable: Western Europe is heavy on biomed, light on H&SS.

Subjects

Subject	Journals	Articles	Art/Jrn
Medicine	732	49,877	68.1
Sociology	64	5,280	82.5
Education	124	4,987	40.2
Ecology	64	4,636	72.4
Economics	87	2,976	34.2
Agriculture	53	2,922	55.1
Chemistry	26	2,907	111.8
Anthropology	98	2,761	28.2
Engineering	40	2,691	67.3
Language & Literature	86	2,652	30.8
Physics	21	2,421	115.3
Law	64	2,316	36.2
Miscellany	26	2,273	87.4
Earth Sciences	85	2,106	24.8
Computer Science	48	2,015	42.0
Biology	29	1,687	58.2
Media & Communications	43	1,587	36.9
Other Sciences	35	1,559	44.5
Zoology	43	1,528	35.5
Arts & Architecture	43	1,434	33.3
Political Science	40	1,369	34.2
History	48	1,216	25.3
Mathematics	38	1,124	29.6
Library Science	33	1,067	32.3
Philosophy	35	1,057	30.2
Technology	17	884	52.0
Psychology	18	603	33.5
Religion	17	318	18.7

Country of Publication, Partial (More than 570 Articles)

Country	Journals	Articles	Art/Jrn
Brazil	182	11,016	60.5
United Kingdom	118	10,235	86.7
India	128	9,207	71.9
Russia	63	7,503	119.1
France	70	6,661	95.2
United States	139	5,856	42.1
Spain	140	5,850	41.8
South Korea	70	4,604	65.8
Turkey	99	4,483	45.3
Germany	70	3,821	54.6
Netherlands	37	2,874	77.7
Italy	60	2,592	43.2
Poland	70	2,379	34.0
Argentina	41	1,652	40.3
Moldova	8	1,548	193.5
Romania	39	1,423	36.5
Canada	40	1,417	35.4
Cuba	22	1,417	64.4
China	21	1,393	66.3
Iran	44	1,377	31.3
Switzerland	21	1,337	63.7
Serbia	47	1,294	27.5
Indonesia	44	1,270	28.9
Ukraine	15	1,269	84.6
Mexico	14	1,099	78.5
Ecuador	7	862	123.1
Croatia	36	817	22.7
Australia	21	813	38.7
Finland	36	781	21.7
Nepal	13	735	56.5
Portugal	26	651	25.0
Greece	13	606	46.6

Others and Unknown

Any conclusions about this odd and small universe are questionable.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	262	9,730			37.1
H&SS	81	2,466	25%	-51%	30.4
Biomed	98	3,988	41%	66%	40.7
STEM	83	3,276	34%	46%	39.5

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	213	220	213	202	196	178
Articles	9,730	10,525	8,727	6,404	5,765	5,419
Art/Jrn	45.7	47.8	41.0	31.7	29.4	30.4
Change	-7.6%	20.6%	36.3%	11.1%	6.4%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	177	177	1.8%
Large: 150-599	14	2,738	196	28.1%
Med.: 60-149	53	3,712	70	38.2%
Small: 20-59	101	2,636	26	27.1%
Smallest: 0-19	44	467	11	4.8%

Region

Region	Journals	Articles	Art/Jrn
Western Europe	130	4,967	38.2
Pacific/English	29	1,431	49.3
Eastern Europe	46	1,304	28.3
Asia	40	1,168	29.2
Middle East	13	570	43.8
Latin America	2	218	109.0
Africa	2	72	36.0

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	55	26.7%	
Even, $\pm 24.99\%$	94	45.6%	72.3%
Shrank 25%+	57	27.7%	
Total	206		

Subjects (Partial, At Least Six Articles)

Subject	Journals	Articles	Art/Jrn
Medicine	89	3,831	43.0
Mathematics	10	832	83.2
Computer Science	8	750	93.8
Economics	17	550	32.4
Ecology	20	487	24.4
Earth Sciences	15	437	29.1
Political Science	5	401	80.2
Language & Literature	8	297	37.1
Education	10	291	29.1
Law	3	252	84.0
Other Sciences	7	246	35.1
Engineering	7	194	27.7
Biology	9	157	17.4
Sociology	9	143	15.9
Miscellany	2	121	60.5
Zoology	5	111	22.2
Anthropology	7	91	13.0
Technology	3	79	26.3
Chemistry	3	73	24.3
Agriculture	4	67	16.8
History	3	65	21.7
Arts & Architecture	5	61	12.2
Philosophy	4	61	15.3
Library Science	2	60	30.0
Religion	2	55	27.5
Psychology	1	13	13.0

Country of Publication (complete)

Country	Journals	Articles	Art/Jrn
United Kingdom	71	2,539	35.8
Netherlands	23	1,377	59.9
United States	16	899	56.2
China	17	671	39.5
Romania	5	490	98.0
Poland	33	464	14.1
Turkey	10	457	45.7
Canada	8	426	53.3
Spain	6	331	55.2
Russia	6	287	47.8
Germany	14	257	18.4
Malaysia	17	251	14.8
India	5	228	45.6
Brazil	2	218	109.0
Italy	6	174	29.0
Norway	6	153	25.5
Switzerland	3	136	45.3
Australia	5	106	21.2
Egypt	1	94	94.0
South Africa	1	52	52.0
Ukraine	1	42	42.0
Slovenia	1	21	21.0
Morocco	1	20	20.0
Syria	2	19	9.5
Singapore	1	18	18.0
France	1	0	0.0

4. Humanities & Social Sciences

More than half of diamond OA, and 71% of H&SS articles are diamond.

Key Facts

	Journals	Articles	Art/J
H&SS	7,714	230,003	29.8

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	7,073	7,336	7,298	7,066	6,790	6,424
Articles	230,003	245,475	216,172	194,925	189,333	178,557
Art/Jrn	32.5	33.5	29.6	27.6	27.9	27.8
Change	-6.3%	13.6%	10.9%	3.0%	6.0%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	18	17,020	946	7.4%
Large: 150-599	150	26,444	176	11.5%
Med.: 60-149	1,146	63,963	56	27.8%
Small: 20-59	4,325	106,815	25	46.4%
Smallest: 0-19	1,434	15,761	11	6.9%

More than half of journals are small or smallest.

Region

Region	Journals	Articles	Art/Jrn
Latin America	2,125	72,051	33.9
Western Europe	2,186	59,620	27.3
Eastern Europe	1,505	48,454	32.2
Asia	900	18,492	20.5
Pacific/English	579	15,868	27.4
Middle East	369	14,211	38.5
Africa	50	1,307	26.1

Latin America does the most diamond OA in H&SS.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	6,250	195,641	31.3	85.1%
Soc/Gov	758	31,896	42.1	13.9%
Other/Unknown	65	2,466	37.9	1.1%

Universities and academia account for nearly 6 in 7 articles.

Subjects

Subject	Journals	Articles	Art/Jrn
Education	1,046	38,104	36.4
Language & Literature	1,011	26,377	26.1
Anthropology	850	22,490	26.5
Economics	802	22,197	27.7
Sociology	586	19,327	33.0
Law	537	16,900	31.5
Political Science	426	13,030	30.6
Arts & Architecture	441	12,614	28.6
Miscellany	335	11,646	34.8
History	405	11,035	27.2
Media & Communications	312	8,466	27.1
Philosophy	311	8,274	26.6
Religion	290	8,046	27.7
Library Science	168	5,961	35.5
Psychology	194	5,536	28.5

Listed here in the usual most-articles-first order. Profiles for these subjects appear in alphabetic order after the next page.

Country of Publication, More than 1,300 Articles

In addition to the 32 countries in the table, there are 37 more with fewer H&SS articles. Perhaps worth noting: Switzerland, the country with *by far* the most gold OA articles, doesn't do enough diamond OA to be in the top 32 (it's 33rd with 1,206 articles).

Country	Journals	Articles	Art/Jrn
Brazil	1,053	39,671	37.7
Spain	741	22,855	30.8
Indonesia	712	14,043	19.7
Russia	239	13,605	56.9
United States	389	10,563	27.2
Poland	431	10,067	23.4
Italy	331	9,375	28.3
Turkey	236	8,691	36.8
Romania	181	7,774	43.0
Argentina	272	6,921	25.4
Colombia	278	6,638	23.9
Mexico	136	5,953	43.8
France	200	5,942	29.7
United Kingdom	256	4,704	18.4
Iran	98	4,476	45.7
Germany	135	3,769	27.9
Cuba	39	3,572	91.6
Canada	127	3,342	26.3
Portugal	108	2,922	27.1
Serbia	106	2,607	24.6
Ukraine	107	2,533	23.7
Chile	108	2,435	22.5
Netherlands	74	2,350	31.8
Czechia	81	2,112	26.1
Moldova	21	1,998	95.1
Ecuador	52	1,921	36.9
Norway	91	1,818	20.0
Croatia	85	1,749	20.6
Australia	50	1,661	33.2
Peru	70	1,611	23.0
Slovenia	48	1,444	30.1
Costa Rica	48	1,305	27.2

Anthropology

	Journals	Articles	Art/J
Anthropology	850	22,490	26.5

70% of anthropology gold OA is diamond. Anthropology in this case includes archaeology, tourism, sports, and much of area studies.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	785	813	800	774	753	714
Articles	22,490	24,673	22,463	20,281	19,857	18,890
Art/Jrn	28.6	30.3	28.1	26.2	26.4	26.5
Change	-8.8%	9.8%	10.8%	2.1%	5.1%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	12	2,479	206.6	11.0%
Med.: 60-149	120	6,496	54.1	28.9%
Small: 20-59	488	11,731	24.0	52.2%
Smallest: 0-19	165	1,784	10.8	7.9%

There are no largest journals; half of all articles are in small journals.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	298	6,967	23.4
Latin America	215	6,274	29.2
Eastern Europe	167	5,162	30.9
Pacific/English	72	1,772	24.6
Asia	58	1,258	21.7
Middle East	36	1,001	27.8
Africa	4	56	14.0

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	688	19,638	28.5	87.3%
Soc/Gov	91	2,761	30.3	12.3%
Other/Unknown	6	91	15.2	0.4%

Country of Publication, More than 140 Articles

Country	Journals	Articles	Art/Jrn
Brazil	98	3,471	35.4
Spain	97	2,189	22.6
France	48	1,644	34.3
United States	54	1,378	25.5
Russia	21	1,274	60.7
Poland	48	1,003	20.9
Italy	36	975	27.1
Romania	22	878	39.9
Argentina	39	853	21.9
Turkey	26	778	29.9
Indonesia	38	756	19.9
Colombia	22	510	23.2
Slovenia	5	500	100.0
Germany	18	430	23.9
Serbia	18	398	22.1
Cuba	7	381	54.4
Mexico	14	369	26.4
Portugal	19	363	19.1
Canada	14	338	24.1
United Kingdom	22	308	14.0
Netherlands	10	261	26.1
Chile	12	254	21.2
Ukraine	7	199	28.4
Iran	9	198	22.0
Norway	14	189	13.5
Malaysia	6	174	29.0
China	4	166	41.5
Croatia	10	163	16.3
Costa Rica	6	158	26.3
Switzerland	3	154	51.3
Hungary	5	152	30.4
Czechia	11	147	13.4

32 countries; 35 more have fewer articles.

Arts & Architecture

	Journals	Articles	Art/J
Arts & Architecture	850	22,490	26.5

70% of gold OA in arts & architecture is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	411	418	418	409	387	360
Articles	12,614	13,504	11,384	10,131	9,612	8,537
Art/Jrn	30.7	32.3	27.2	24.8	24.8	23.7
Change	-6.6%	18.6%	12.4%	5.4%	12.6%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,000	1,000.0	7.9%
Large: 150-599	9	1,558	173.1	12.4%
Med.: 60-149	53	2,911	54.9	23.1%
Small: 20-59	261	6,182	23.7	49.0%
Smallest: 0-19	87	963	11.1	7.6%

One largest journal, but nearly half of articles are in small journals.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	198	5,764	29.1
Latin America	116	3,468	29.9
Eastern Europe	55	1,464	26.6
Middle East	21	828	39.4
Asia	22	532	24.2
Pacific/English	26	491	18.9
Africa	3	67	22.3

Another case where Western Europe does the most.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	366	11,119	30.4	88.1%
Soc/Gov	42	1,434	34.1	11.4%
Other/Unknown	3	61	20.3	0.5%

More than seven of eight articles are from universities and academia.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	77	19.2%	
Even, $\pm 24.99\%$	209	52.1%	71.3%
Shrank 25%+	115	28.7%	
Total	401		

An unusually high percentage of journals with substantial shrinkage.

Country of Publication, More than 50 Articles

In addition to the 30 shown, 26 more have fewer articles.

Country	Journals	Articles	Art/Jrn
Italy	49	2,100	42.9
Spain	75	1,865	24.9
Brazil	52	1,629	31.3
Argentina	22	724	32.9
Turkey	15	688	45.9
United States	23	411	17.9
Netherlands	6	380	63.3
Indonesia	17	378	22.2
Ukraine	11	313	28.5
United Kingdom	19	310	16.3
France	9	303	33.7
Colombia	12	285	23.8
Poland	8	283	35.4
Cuba	3	233	77.7
Romania	5	229	45.8
Germany	9	199	22.1

Chile	8	198	24.8
Russia	2	188	94.0
Serbia	10	166	16.6
Portugal	7	162	23.1
Mexico	6	128	21.3
Slovenia	7	113	16.1
Norway	7	108	15.4
Greece	2	98	49.0
Iraq	2	97	48.5
Ecuador	4	88	22.0
Peru	4	80	20.0
China	1	78	78.0
Finland	5	75	15.0
Canada	2	62	31.0

Economics

	Journals	Articles	Art/J
Economics	802	22,197	27.7

Just over half (51%) of economics gold OA is diamond. Includes most topics related to business and labor.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	735	768	762	738	710	675
Articles	22,197	21,807	20,374	18,419	18,693	17,823
Art/Jrn	30.2	28.4	26.7	25.0	26.3	26.4
Change	1.8%	7.0%	10.6%	-1.5%	4.9%	

Unusually for H&SS, a slight increase for 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	1,478	739.0	6.7%
Large: 150-599	15	2,975	198.3	13.4%
Med.: 60-149	89	4,926	55.3	22.2%
Small: 20-59	444	10,705	24.1	48.2%
Smallest: 0-19	185	2,113	11.4	9.5%

Some largest journals, but half of all articles in small journals.

Region

Region	Journals	Articles	Art/Jrn
Latin America	212	6,928	32.7
Eastern Europe	218	6,428	29.5
Asia	174	3,692	21.2
Western Europe	99	2,082	21.0
Middle East	57	1,893	33.2
Pacific/English	28	729	26.0
Africa	14	445	31.8

Latin America first, followed by eastern regions.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	639	18,671	29.2	84.1%
Soc/Gov	80	2,976	37.2	13.4%
Other/Unknown	16	550	34.4	2.5%

Another subject where universities and academia dominate.

Country of Publication, More than 100 Articles

In addition to the 31 countries shown here, there are 39 more with fewer articles.

Country	Journals	Articles	Art/Jrn
Indonesia	133	2,756	20.7
Brazil	92	2,704	29.4
Russia	40	2,113	52.8
Mexico	21	1,870	89.0
Romania	39	1,536	39.4
Turkey	37	1,147	31.0
Poland	52	973	18.7
United Kingdom	42	895	21.3
Colombia	43	781	18.2
Ecuador	9	763	84.8
Iran	18	718	39.9
Serbia	20	577	28.9
Spain	22	451	20.5
United States	18	421	23.4
Pakistan	15	296	19.7
Ukraine	12	290	24.2
Viet Nam	4	267	66.8
Morocco	8	261	32.6
Argentina	19	260	13.7
Cuba	6	227	37.8
Canada	7	226	32.3
Croatia	15	210	14.0
Italy	9	190	21.1
Netherlands	4	164	41.0
Germany	5	149	29.8
Peru	9	145	16.1
Algeria	2	126	63.0
India	4	113	28.3
Bulgaria	7	107	15.3
Slovenia	4	104	26.0
Czechia	9	103	11.4

Education

	Journals	Articles	Art/J
Education	1,046	38,104	36.4

Not quite $\frac{3}{4}$ of education gold OA (73%) is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	984	1,000	994	963	909	875
Articles	38,104	39,829	32,831	28,864	27,598	26,696
Art/Jrn	38.7	39.8	33.0	30.0	30.4	30.5
Change	-4.3%	21.3%	13.7%	4.6%	3.4%	

Typical small decline, after two years of strong growth.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	3	3,875	1,291.7	10.2%
Large: 150-599	30	6,705	223.5	17.6%
Med.: 60-149	214	11,728	54.8	30.8%
Small: 20-59	555	13,804	24.9	36.2%
Smallest: 0-19	182	1,992	10.9	5.2%

A range of sizes, with more than half in medium-to-large journals.

Region

Region	Journals	Articles	Art/Jrn
Latin America	317	15,126	47.7
Western Europe	233	8,786	37.7
Asia	190	4,646	24.5
Eastern Europe	116	3,860	33.3
Pacific/English	120	3,667	30.6
Middle East	65	1,836	28.2
Africa	5	183	36.6

Latin America by far the largest, with about 40% of all articles.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	860	32,826	38.2	86.1%
Soc/Gov	115	4,987	43.4	13.1%
Other/Unknown	9	291	32.3	0.8%

More university/academia dominance, with six of seven articles.

Country of Publication, More than 110 Articles

In addition to the 32 here, 37 countries have fewer articles.

Country	Journals	Articles	Art/Jrn
Brazil	182	8,925	49.0
Spain	88	4,990	56.7
Indonesia	168	4,129	24.6
United States	78	2,564	32.9
Cuba	10	1,950	195.0
Turkey	42	1,215	28.9
Colombia	41	1,155	28.2
Russia	18	1,034	57.4
Mexico	14	959	68.5
Argentina	27	933	34.6
Poland	35	915	26.1
Czechia	11	791	71.9
United Kingdom	39	754	19.3
Italy	17	722	42.5
Canada	29	641	22.1
Germany	16	458	28.6
Norway	17	457	26.9
Iran	17	397	23.4
Greece	5	380	76.0
Ukraine	16	377	23.6
Australia	10	349	34.9
Costa Rica	6	333	55.5
Portugal	11	265	24.1
France	9	213	23.7

Romania	10	183	18.3
Ecuador	7	174	24.9
Serbia	11	172	15.6
South Africa	4	170	42.5
Peru	7	161	23.0
Venezuela	3	149	49.7
Sweden	8	125	15.6
New Zealand	3	113	37.7

History

	Journals	Articles	Art/J
History	405	11,035	27.2

Nearly all (94%) history gold OA is diamond. Some journals that could be included here appear in anthropology or elsewhere.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	369	385	388	377	372	354
Articles	11,035	12,000	11,820	10,518	10,433	10,114
Art/Jrn	29.9	31.2	30.5	27.9	28.0	28.6
Change	-8.0%	1.5%	12.4%	0.8%	3.2%	

Very small increase in 2021, larger decline in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	7	720	102.9	6.5%
Med.: 60-149	67	3,484	52.0	31.6%
Small: 20-59	232	6,151	26.5	55.7%
Smallest: 0-19	63	680	10.8	6.2%

No largest journals; more than 60% small and smallest.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	165	4,426	26.8
Latin America	124	3,868	31.2
Eastern Europe	79	1,989	25.2
Middle East	12	369	30.8
Pacific/English	20	337	16.9
Asia	4	39	9.8
Africa	1	7	7.0

Western Europe most prominent.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	327	9,754	29.8	88.4%
Soc/Gov	40	1,216	30.4	11.0%
Other/Unknown	2	65	32.5	0.6%

Nearly eight of nine articles are from universities and academia.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	57	15.7%	
Even, $\pm 24.99\%$	211	58.3%	74.0%
Shrank 25%+	94	26.0%	
Total	362		

Another case of atypically high shrinkage and low growth.

Country of Publication, More than 40 Articles

In addition to the 31 countries on the next page, another dozen have fewer articles.

Country	Journals	Articles	Art/Jrn
Spain	70	2,301	32.9
Brazil	58	1,857	32.0
Argentina	32	1,025	32.0
Russia	15	786	52.4
Italy	33	715	21.7
Poland	19	431	22.7
France	17	362	21.3
Mexico	10	358	35.8
Portugal	9	315	35.0
Colombia	11	314	28.5
Chile	10	244	24.4
Turkey	10	199	19.9
Ukraine	6	161	26.8
Netherlands	5	160	32.0
Canada	7	159	22.7
Iraq	1	138	138.0
Finland	5	130	26.0
Serbia	6	129	21.5
United Kingdom	7	122	17.4
Norway	5	109	21.8
United States	9	108	12.0
Slovenia	2	77	38.5
Austria	4	76	19.0
Greece	4	75	18.8
Australia	4	70	17.5
Costa Rica	3	70	23.3
Romania	6	66	11.0
Slovakia	3	64	21.3
Croatia	8	60	7.5
Germany	5	51	10.2
Bosnia and Herzegovina	3	42	14.0

Language & Literature

	Journals	Articles	Art/J
Language & Literature	1,011	26,377	26.1

86% of gold language & literature is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	914	959	959	929	899	856
Articles	26,377	29,755	26,499	24,755	23,471	22,263
Art/Jrn	28.9	31.0	27.6	26.6	26.1	26.0
Change	-11.4%	12.3%	7.0%	5.5%	5.4%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	969	969.0	3.7%
Large: 150-599	10	1,259	125.9	4.8%
Med.: 60-149	153	7,957	52.0	30.2%
Small: 20-59	562	14,128	25.1	53.6%
Smallest: 0-19	188	2,064	11.0	7.8%

Region

Region	Journals	Articles	Art/Jrn
Western Europe	378	8,617	22.8
Eastern Europe	247	6,933	28.1
Latin America	206	6,576	31.9
Pacific/English	60	1,612	26.9
Asia	84	1,586	18.9
Middle East	33	928	28.1
Africa	3	125	41.7

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	828	23,428	28.3	88.8%
Soc/Gov	79	2,652	33.6	10.1%
Other/Unknown	7	297	42.4	1.1%

Country of Publication, More than 135 Articles

Country	Journals	Articles	Art/Jrn
Brazil	129	4,386	34.0
Spain	138	3,531	25.6
Poland	90	2,017	22.4
Italy	63	1,617	25.7
Russia	29	1,358	46.8
Romania	23	1,317	57.3
United States	45	1,291	28.7
France	65	1,130	17.4
Indonesia	61	1,013	16.6
Argentina	25	662	26.5
Colombia	17	457	26.9
United Kingdom	26	439	16.9
Czechia	17	410	24.1
Turkey	17	389	22.9
Iran	12	371	30.9
Portugal	10	325	32.5
Norway	15	321	21.4
Germany	20	317	15.9
Peru	8	311	38.9
Slovenia	14	310	22.1
Chile	8	269	33.6
India	7	264	37.7
Mexico	11	261	23.7
Canada	10	258	25.8
Lithuania	15	251	16.7
Netherlands	8	225	28.1
Serbia	9	204	22.7
Hungary	8	156	19.5
Belgium	9	154	17.1
Ukraine	7	147	21.0
Croatia	11	142	12.9

In addition to these 31, 37 other countries have fewer articles.

Law

	Journals	Articles	Art/J
Law	537	16,900	31.5

84% of gold OA law articles are diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	478	497	504	473	452	421
Articles	16,900	17,300	15,290	12,499	13,074	12,054
Art/Jrn	35.4	34.8	30.3	26.4	28.9	28.6
Change	-2.3%	13.1%	22.3%	-4.4%	8.5%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	1,524	762.0	9.0%
Large: 150-599	18	3,045	169.2	18.0%
Med.: 60-149	77	4,381	56.9	25.9%
Small: 20-59	290	6,984	24.1	41.3%
Smallest: 0-19	91	966	10.6	5.7%

Region

Region	Journals	Articles	Art/Jrn
Eastern Europe	116	5,596	48.2
Latin America	179	4,695	26.2
Western Europe	122	3,676	30.1
Asia	81	1,496	18.5
Pacific/English	15	839	55.9
Middle East	21	548	26.1
Africa	3	50	16.7

Eastern Europe does most, with larger average journal size than usual.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	422	14,332	34.0	84.8%
Soc/Gov	54	2,316	42.9	13.7%
Other/Unknown	2	252	126.0	1.5%

Another case where universities and academia are unusually dominant.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	91	19.4%	
Even, $\pm 24.99\%$	246	52.3%	71.7%
Shrank 25%+	133	28.3%	
Total	470		

Relatively high shrinkage.

Country of Publication, More than 70 Articles

Country	Journals	Articles	Art/Jrn
Brazil	87	2,520	29.0
Russia	26	1,756	67.5
Romania	9	1,640	182.2
Spain	45	1,597	35.5
Indonesia	71	1,265	17.8
Poland	36	1,006	27.9
Colombia	38	773	20.3
Australia	7	694	99.1
Germany	9	613	68.1
Italy	22	573	26.0
Netherlands	7	358	51.1
Paraguay	3	344	114.7
Serbia	10	290	29.0
Turkey	9	257	28.6
Argentina	13	247	19.0
Ukraine	9	225	25.0
Chile	9	214	23.8
Croatia	7	212	30.3
Iran	8	211	26.4
United Kingdom	19	175	9.2
Mexico	7	155	22.1
Peru	8	153	19.1

France	6	115	19.2
Ecuador	6	95	15.8
Lithuania	4	95	23.8
Czechia	2	86	43.0
Uruguay	3	83	27.7
Slovakia	2	79	39.5
United States	5	79	15.8
Malaysia	3	72	24.0

In addition to these 30, there are 27 more with fewer articles.

Library Science

	Journals	Articles	Art/J
Library Science	168	5,961	31.5

88% of all gold OA in this field is diamond. Includes archives, museums, and information science.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	158	160	158	152	154	146
Articles	5,961	5,140	4,284	4,012	4,192	4,000
Art/Jrn	37.7	32.1	27.1	26.4	27.2	27.4
Change	16.0%	20.0%	6.8%	-4.3%	4.8%	

Unusual, with significant growth in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,793	1,793.0	30.1%
Large: 150-599	2	156	78.0	2.6%
Med.: 60-149	23	1,379	60.0	23.1%
Small: 20-59	93	2,260	24.3	37.9%
Smallest: 0-19	39	373	9.6	6.3%

Other than one very large journal, mostly medium and small.

Region

Region	Journals	Articles	Art/Jrn
Middle East	7	2,052	293.1
Western Europe	43	1,060	24.7
Pacific/English	36	977	27.1
Latin America	35	972	27.8
Eastern Europe	29	630	21.7
Asia	16	246	15.4
Africa	2	24	12.0

Yes, that one very large journal is in the Middle East (Iran, see below).

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	125	4,834	38.7	81.1%
Soc/Gov	31	1,067	34.4	17.9%
Other/Unknown	2	60	30.0	1.0%

Universities and academia dominate, with four of five articles.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	43	27.6%	
Even, $\pm 24.99\%$	73	46.8%	74.4%
Shrank 25%+	40	25.6%	
Total	156		

A different case: More *growing* journals than average.

Country of Publication, More than 25 Articles

Country	Journals	Articles	Art/Jrn
Iran	3	1,891	630.3
United States	28	679	24.3
Brazil	24	673	28.0
Ukraine	5	203	40.6
Italy	5	201	40.2
Poland	11	171	15.5
Australia	3	159	53.0

Germany	4	153	38.3
Turkey	3	149	49.7
Indonesia	8	141	17.6
Canada	5	139	27.8
United Kingdom	10	137	13.7
Spain	8	111	13.9
Portugal	3	109	36.3
Netherlands	4	94	23.5
Cuba	1	74	74.0
Argentina	3	70	23.3
France	2	64	32.0
Mexico	2	63	31.5
South Korea	2	62	31.0
Sweden	1	56	56.0
Moldova	1	53	53.0
Finland	1	45	45.0
Romania	3	41	13.7
Uruguay	1	38	38.0
Lithuania	2	33	16.5
Norway	3	32	10.7
Austria	1	31	31.0
Bulgaria	1	31	31.0
Hungary	1	28	28.0
Costa Rica	2	27	13.5
Switzerland	1	27	27.0

In addition to these 32 countries, 14 more have fewer articles.

Media & Communications

	Journals	Articles	Art/J
Media & Communications	312	8,466	27.1

83% of all 2022 Media & Communications gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	280	290	293	288	277	258
Articles	8,466	8,974	8,735	8,140	7,758	7,825
Art/Jrn	30.2	30.9	29.8	28.3	28.0	30.3
Change	-5.7%	2.7%	7.3%	4.9%	-0.9%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	5	663	132.6	7.8%
Med.: 60-149	52	3,055	58.8	36.1%
Small: 20-59	172	4,144	24.1	48.9%
Smallest: 0-19	51	604	11.8	7.1%

No largest, not quite half small.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	130	3,499	26.9
Latin America	90	2,693	29.9
Eastern Europe	32	865	27.0
Pacific/English	29	660	22.8
Asia	20	398	19.9
Middle East	11	351	31.9

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	240	6,874	28.6	81.2%
Soc/Gov	39	1,587	40.7	18.7%
Other/Unknown	1	5	5.0	0.1%

Typical for H&SS, with a bit more Soc/Gov than usual.

Country of Publication, More than 54 Articles

In addition to the 31 countries in the table, 24 more have fewer articles.

Country	Journals	Articles	Art/Jrn
Brazil	52	1,648	31.7
Spain	44	1,125	25.6
Portugal	15	462	30.8
Italy	16	451	28.2
United States	19	451	23.7
United Kingdom	11	324	29.5
Turkey	9	319	35.4
Argentina	10	266	26.6
Serbia	1	260	260.0
Indonesia	15	227	15.1
France	8	214	26.8
Poland	7	197	28.1
Russia	5	192	38.4
Netherlands	5	183	36.6
Cuba	3	177	59.0
Switzerland	2	163	81.5
Mexico	6	149	24.8
Canada	5	138	27.6
Germany	9	136	15.1
Colombia	6	121	20.2
Ecuador	4	118	29.5
China	1	114	114.0
Finland	4	111	27.8
Austria	4	99	24.8
Peru	3	84	28.0
Ireland	2	75	37.5
Chile	4	73	18.3
Croatia	4	66	16.5
Romania	6	66	11.0
Uruguay	2	57	28.5
Norway	2	55	27.5

Miscellany

	Journals	Articles	Art/J
Miscellany	335	11,646	34.8

66% of Miscellany gold is diamond. This includes interdisciplinary, proceedings and megajournals that feature H&SS subjects, as well as subjects that didn't make sense elsewhere.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	317	320	317	313	298	273
Articles	11,646	14,635	13,920	13,031	12,428	10,816
Art/Jrn	36.7	45.7	43.9	41.6	41.7	39.6
Change	-20.4%	5.1%	6.8%	4.9%	14.9%	

Substantial downturn in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	4	1,483	370.8	12.7%
Large: 150-599	14	1,662	118.7	14.3%
Med.: 60-149	52	3,052	58.7	26.2%
Small: 20-59	195	4,874	25.0	41.9%
Smallest: 0-19	52	575	11.1	4.9%

The largest journals weren't all that large in 2022.

Region

Region	Journals	Articles	Art/Jrn
Latin America	130	4,623	35.6
Western Europe	75	3,353	44.7
Eastern Europe	52	1,756	33.8
Middle East	18	638	35.4
Asia	25	621	24.8
Pacific/English	26	407	15.7
Africa	9	248	27.6

Country of Publication, More than 80 Articles

Country	Journals	Articles	Art/Jrn
Brazil	46	1,976	43.0
France	13	1,369	105.3
Colombia	23	717	31.2
Russia	8	470	58.8
Switzerland	3	467	155.7
Turkey	8	425	53.1
Spain	13	387	29.8
Mexico	11	355	32.3
United States	20	339	17.0
United Kingdom	12	326	27.2
Argentina	12	324	27.0
Ecuador	8	305	38.1
Romania	7	257	36.7
Portugal	9	235	26.1
Indonesia	12	231	19.3
Peru	8	211	26.4
Moldova	2	195	97.5
Poland	9	194	21.6
Germany	3	180	60.0
Costa Rica	5	179	35.8
Croatia	8	176	22.0
Chile	6	157	26.2
Venezuela	4	156	39.0
Netherlands	5	140	28.0
Philippines	4	140	35.0
Lithuania	2	121	60.5
Cuba	1	120	120.0
Malaysia	5	112	22.4
Bosnia and Herzegovina	2	100	50.0
Italy	7	99	14.1
Algeria	2	96	48.0
Denmark	4	85	21.3

In addition to these 32 countries, 30 more had fewer articles.

Philosophy

	Journals	Articles	Art/J
Philosophy	311	8,274	26.6

90% of Philosophy gold OA is no-fee, that is, diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	286	295	297	286	282	269
Articles	8,274	8,647	8,367	7,777	7,622	7,637
Art/Jrn	28.9	29.3	28.2	27.2	27.0	28.4
Change	-4.3%	3.3%	7.6%	2.0%	-0.2%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	262	131.0	3.2%
Med.: 60-149	44	2,629	59.8	31.8%
Small: 20-59	186	4,774	25.7	57.7%
Smallest: 0-19	54	609	11.3	7.4%

No largest, mostly small.

Region

Region	Journals	Articles	Art/Jrn
Latin America	85	2,712	31.9
Western Europe	93	2,392	25.7
Eastern Europe	78	1,821	23.3
Pacific/English	37	1,057	28.6
Middle East	8	147	18.4
Asia	10	145	14.5

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	250	7,156	28.6	86.5%
Soc/Gov	34	1,057	31.1	12.8%
Other/Unknown	2	61	30.5	0.7%

Predominantly univ/acad, typical of most H&SS.

Country of Publication, More than 26 Articles

Country	Journals	Articles	Art/Jrn
Brazil	46	1,699	36.9
Spain	30	928	30.9
Italy	28	808	28.9
United States	20	592	29.6
Canada	13	421	32.4
Poland	22	406	18.5
Russia	8	353	44.1
Romania	12	300	25.0
Colombia	9	262	29.1
Chile	10	256	25.6
Mexico	5	215	43.0
Argentina	10	173	17.3
Ukraine	7	168	24.0
Portugal	7	164	23.4
France	6	140	23.3
United Kingdom	8	128	16.0
Slovakia	4	112	28.0
Czechia	9	111	12.3
Croatia	5	110	22.0
Iran	4	84	21.0
Indonesia	5	70	14.0
Slovenia	2	65	32.5
Austria	3	64	21.3
Lithuania	2	64	32.0
Turkey	4	63	15.8
Serbia	2	62	31.0
Peru	2	53	26.5
Bulgaria	3	47	15.7
Netherlands	2	47	23.5
Costa Rica	2	29	14.5

In addition to these 31, there are 15 more with fewer articles.

Political Science

	Journals	Articles	Art/J
Political Science	426	13,030	30.6

81% diamond. Includes military science.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	382	406	405	390	369	343
Articles	13,030	14,789	11,944	11,045	10,511	9,411
Art/Jrn	34.1	36.4	29.5	28.3	28.5	27.4
Change	-11.9%	23.8%	8.1%	5.1%	11.7%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	14	3,013	215.2	23.1%
Med.: 60-149	64	3,556	55.6	27.3%
Small: 20-59	230	5,724	24.9	43.9%
Smallest: 0-19	74	737	10.0	5.7%

No largest.

Region

Region	Journals	Articles	Art/Jrn
Eastern Europe	132	4,680	35.5
Latin America	120	3,334	27.8
Western Europe	91	2,305	25.3
Pacific/English	31	1,523	49.1
Asia	36	748	20.8
Middle East	13	370	28.5
Africa	3	70	23.3

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	344	11,260	32.7	86.4%
Soc/Gov	34	1,369	40.3	10.5%
Other/Unknown	4	401	100.3	3.1%

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	62	16.4%	
Even, ±24.99%	207	54.8%	71.2%
Shrank 25%+	109	28.8%	
Total	378		

Less growth and more shrinkage than usual.

Country of Publication, More than 50 Articles

Country	Journals	Articles	Art/Jrn
Russia	23	1,546	67.2
Brazil	52	1,533	29.5
Poland	43	1,361	31.7
Spain	32	1,118	34.9
Romania	22	940	42.7
United States	16	903	56.4
Mexico	13	632	48.6
Canada	11	519	47.2
Colombia	19	477	25.1
Indonesia	25	437	17.5
Italy	17	348	20.5
Chile	12	271	22.6
United Kingdom	14	267	19.1
Turkey	9	264	29.3
Argentina	12	251	20.9
China	1	184	184.0
Czechia	9	183	20.3
Ukraine	10	163	16.3
Portugal	4	159	39.8
Croatia	5	123	24.6
Germany	6	115	19.2
Iran	4	106	26.5
Lithuania	4	95	23.8
Sweden	3	79	26.3
Slovakia	5	66	13.2

Norway	3	65	21.7
Australia	3	57	19.0
Estonia	2	57	28.5
Serbia	3	57	19.0
South Africa	2	53	26.5

In addition to the 30 here, 29 more have fewer articles.

Psychology

	Journals	Articles	Art/J
Psychology	194	5,536	28.5

Only 30% of gold Psychology is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	172	184	186	189	188	184
Articles	5,536	6,189	5,469	5,397	5,319	4,826
Art/Jrn	32.2	33.6	29.4	28.6	28.3	26.2
Change	-10.6%	13.2%	1.3%	1.5%	10.2%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	4	397	99.3	7.2%
Med.: 60-149	31	1,920	61.9	34.7%
Small: 20-59	112	2,928	26.1	52.9%
Smallest: 0-19	25	291	11.6	5.3%

No largest, mostly small.

Region

Region	Journals	Articles	Art/Jrn
Latin America	75	2,192	29.2
Eastern Europe	44	1,543	35.1
Western Europe	36	985	27.4
Asia	20	336	16.8
Middle East	10	316	31.6
Pacific/English	9	164	18.2

Another field with Latin America and Eastern Europe most prolific.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	154	4,920	31.9	88.9%
Soc/Gov	17	603	35.5	10.9%
Other/Unknown	1	13	13.0	0.2%

Very high dominance of univ/acad, even for H&SS.

Country of Publication, More than 27 Articles

Country	Journals	Articles	Art/Jrn
Brazil	37	1,147	31.0
Russia	14	688	49.1
Spain	12	483	40.3
Indonesia	18	325	18.1
Argentina	7	219	31.3
Peru	6	192	32.0
Colombia	11	179	16.3
Turkey	7	168	24.0
Poland	5	150	30.0
Czechia	5	148	29.6
Moldova	1	145	145.0
Germany	5	142	28.4
Mexico	3	119	39.7
Iran	2	114	57.0
Serbia	5	114	22.8
Guatemala	1	113	113.0
United States	5	113	22.6
Finland	1	108	108.0
Croatia	2	76	38.0
Italy	6	74	12.3
Chile	2	68	34.0
Ukraine	4	67	16.8
Costa Rica	4	65	16.3
Romania	2	62	31.0
Uruguay	2	61	30.5
United Kingdom	3	54	18.0

Canada	3	40	13.3
Greece	1	36	36.0
Oman	1	34	34.0
Bulgaria	1	29	29.0
Ecuador	1	29	29.0
Slovakia	1	29	29.0

In addition to these 32, 11 more countries have fewer articles.

Religion

	Journals	Articles	Art/J
Religion	290	8,046	27.7

74% of Religion in gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	265	281	267	253	237	222
Articles	8,046	7,649	6,462	5,851	5,318	4,843
Art/Jrn	30.4	27.2	24.2	23.1	22.4	21.8
Change	5.2%	18.4%	10.4%	10.0%	9.8%	

Modest increase in 2022, but still an increase (unusual for H&SS).

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,141	1,141.0	14.2%
Large: 150-599	2	502	251.0	6.2%
Med.: 60-149	29	1,912	65.9	23.8%
Small: 20-59	164	3,632	22.1	45.1%
Smallest: 0-19	69	859	12.4	10.7%

Region

Region	Journals	Articles	Art/Jrn
Asia	116	1,991	17.2
Middle East	29	1,801	62.1
Western Europe	58	1,790	30.9
Eastern Europe	39	1,011	25.9
Latin America	30	797	26.6
Pacific/English	16	624	39.0
Africa	2	32	16.0

In this case, Asia is almost entirely Indonesia.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	247	7,673	31.1	95.4%
Soc/Gov	16	318	19.9	4.0%
Other/Unknown	2	55	27.5	0.7%

Even more predominantly universities and academia than most.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	58	22.1%	
Even, ±24.99%	147	56.1%	78.2%
Shrank 25%+	57	21.8%	
Total	262		

Slightly higher growth and lower shrinkage than usual.

Country of Publication, More than 33 Articles

Country	Journals	Articles	Art/Jrn
Indonesia	105	1,726	16.4
Turkey	21	1,707	81.3
Brazil	20	564	28.2
United States	12	534	44.5
Poland	19	454	23.9
Spain	11	375	34.1
Germany	7	361	51.6

Russia	8	263	32.9
Norway	5	197	39.4
Pakistan	7	191	27.3
Netherlands	5	129	25.8
United Kingdom	7	117	16.7
Belgium	1	110	110.0
France	3	108	36.0
Argentina	4	102	25.5
Croatia	2	102	51.0
Finland	5	81	16.2
Ireland	1	78	78.0
Chile	4	67	16.8
Austria	3	64	21.3
Czechia	2	59	29.5
Canada	2	53	26.5
Iran	6	50	8.3
Ukraine	2	45	22.5
Qatar	1	44	44.0
Portugal	2	41	20.5
Malaysia	1	40	40.0
Sweden	1	40	40.0
Australia	2	37	18.5
Colombia	1	36	36.0
Serbia	2	36	18.0

In addition to the 31 listed here, 12 more have fewer articles.

Sociology

	Journals	Articles	Art/J
Sociology	586	19,327	33.0

76% of gold Sociology is diamond. Ambiguous journals tended to be classed as Anthropology.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	537	560	550	532	503	474
Articles	19,327	20,584	16,330	14,205	13,447	12,822
Art/Jrn	36.0	36.8	29.7	26.7	26.7	27.1
Change	-6.1%	26.1%	15.0%	5.6%	4.9%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	3	3,757	1,252.3	19.4%
Large: 150-599	6	1,048	174.7	5.4%
Med.: 60-149	78	4,577	58.7	23.7%
Small: 20-59	341	8,794	25.8	45.5%
Smallest: 0-19	109	1,151	10.6	6.0%

More largest journal activity than usual for H&SS.

Region

Region	Journals	Articles	Art/Jrn
Latin America	191	7,793	40.8
Eastern Europe	101	4,716	46.7
Western Europe	167	3,918	23.5
Middle East	28	1,133	40.5
Pacific/English	54	1,009	18.7
Asia	44	758	17.2
Africa	1	0	0.0

Latin America back, with a substantial lead.

Country of Publication, More than 80 Articles

In addition to the 33 in the table, 32 more have fewer articles.

Country	Journals	Articles	Art/Jrn
Brazil	78	4,939	63.3
Russia	21	1,575	75.0
Spain	56	1,404	25.1
Moldova	3	1,308	436.0
Turkey	19	923	48.6
Argentina	37	812	21.9
United States	37	700	18.9
Indonesia	33	568	17.2
Colombia	24	552	23.0
Poland	27	506	18.7
Italy	20	477	23.9
Germany	16	442	27.6
United Kingdom	17	348	20.5
Mexico	13	320	24.6
Cuba	5	299	59.8
Romania	14	249	17.8
Croatia	4	245	61.3
France	9	216	24.0
Canada	10	214	21.4
Ecuador	6	214	35.7
Chile	10	213	21.3
Iran	7	190	27.1
Norway	10	184	18.4
Portugal	6	179	29.8
Finland	4	174	43.5
Netherlands	6	155	25.8
Slovakia	3	145	48.3
Costa Rica	4	143	35.8
Venezuela	4	141	35.3
Albania	2	126	63.0
Serbia	6	120	20.0
Bosnia and Herzegovina	1	118	118.0
Ukraine	5	105	21.0

5. Biology and Medicine

	Journals	Articles	Art/J
Biomed	2,073	108,875	52.5

Biomed is the largest part of gold OA, even after the “biology” part is trimmed by treating most journals that deal with plants and food as agriculture, and most that deal with animals as zoology.

What it is *not* is a similarly large part of diamond OA. Only 20% of 2022 biomed gold OA articles were in diamond journals—and for biology, that percentage goes down to 7%.

Because biology is such a small part of the diamond version of biomed—about 5.4% for 2022—it doesn’t make sense to do a normal profile for the segment as a whole: the most figures are essentially the same as for Medicine (including the top ten countries). So instead, here are the profiles for Biology and Medicine.

Biology

	Journals	Articles	Art/J
Biology	149	5,835	39.2

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	137	143	137	128	125	121
Articles	5,835	6,388	5,221	4,200	4,154	4,049
Art/Jrn	42.6	44.7	38.1	32.8	33.2	33.5
Change	-8.7%	22.4%	24.3%	1.1%	2.6%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	655	655.0	11.2%
Large: 150-599	8	1,325	165.6	22.7%
Med.: 60-149	24	1,524	63.5	26.1%
Small: 20-59	81	2,082	25.7	35.7%
Smallest: 0-19	23	249	10.8	4.3%

Region

Region	Journals	Articles	Art/Jrn
Western Europe	25	1,545	61.8
Latin America	30	1,320	44.0
Eastern Europe	36	1,288	35.8
Asia	33	886	26.8
Middle East	16	535	33.4
Pacific/English	7	260	37.1
Africa	2	1	0.5

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	105	3,991	38.0	68.4%
Soc/Gov	26	1,687	64.9	28.9%
Other/Unknown	6	157	26.2	2.7%

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	23	17.2%	
Even, $\pm 24.99\%$	70	52.2%	69.4%
Shrank 25%+	41	30.6%	
Total	134		

Less growth and more shrinkage than usual.

Country of Publication, More than 29 Articles

Country	Journals	Articles	Art/Jrn
France	3	700	233.3
Brazil	8	437	54.6
Colombia	10	407	40.7
United Kingdom	8	398	49.8
Russia	10	367	36.7
Iran	9	353	39.2
India	4	297	74.3
Bulgaria	3	254	84.7

United States	4	229	57.3
Ecuador	1	227	227.0
Germany	3	222	74.0
Indonesia	14	199	14.2
Serbia	3	159	53.0
Spain	5	116	23.2
Italy	5	109	21.8
Romania	3	109	36.3
China	2	93	46.5
Iraq	1	88	88.0
Ukraine	4	87	21.8
Pakistan	3	86	28.7
Poland	5	86	17.2
Croatia	2	79	39.5
Argentina	3	62	20.7
Peru	2	58	29.0
Turkey	3	58	19.3
Mexico	2	55	27.5
Slovenia	1	49	49.0
South Korea	1	49	49.0
Malaysia	2	47	23.5
Singapore	1	45	45.0
Chile	1	40	40.0

In addition to these 31, 20 other countries have fewer articles.

Medicine

	Journals	Articles	Art/J
Medicine	1,924	103,040	53.6

23% of 2022 gold OA is diamond. Veterinary medicine is in Zoology.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	1,804	1,843	1,782	1,721	1,623	1,537
Articles	103,040	102,946	92,496	79,715	77,594	76,243
Art/Jrn	57.1	55.9	51.9	46.3	47.8	49.6
Change	0.1%	11.3%	16.0%	2.7%	1.8%	

Essentially flat for 2022, but not down.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	14	15,351	1,096.5	14.9%
Large: 150-599	137	21,213	154.8	20.6%
Med.: 60-149	588	37,778	64.2	36.7%
Small: 20-59	924	27,191	29.4	26.4%
Smallest: 0-19	141	1,507	10.7	1.5%

Medical journals tend to be larger, although there are many small ones.

Region

Region	Journals	Articles	Art/Jrn
Asia	437	24,657	56.4
Western Europe	347	21,708	62.6
Eastern Europe	295	18,218	61.8
Latin America	346	17,417	50.3
Middle East	337	15,005	44.5
Pacific/English	135	4,992	37.0
Africa	27	1,043	38.6

India accounts for half of Asia's output, but other countries (e.g., South Korea and Indonesia) contribute to this somewhat unusual position.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	1,028	49,332	48.0	47.9%
Soc/Gov	700	49,877	71.3	48.4%
Other/Unknown	76	3,831	50.4	3.7%

Truly distinctive: societies and associations publish or fund more than universities and academia.

Country of Publication, More than 140 Articles

Country	Journals	Articles	Art/Jrn
India	188	12,388	65.9
Russia	113	10,420	92.2
Brazil	145	8,501	58.6
Iran	205	8,402	41.0
United Kingdom	116	7,791	67.2
Turkey	104	5,150	49.5
South Korea	63	3,913	62.1
Spain	80	3,640	45.5
United States	92	3,436	37.3
Poland	62	3,121	50.3
Cuba	43	2,988	69.5
Netherlands	23	2,828	123.0
Indonesia	77	2,814	36.5
Germany	19	2,009	105.7
Ukraine	31	1,911	61.6
Colombia	40	1,315	32.9
Portugal	26	1,271	48.9
China	19	1,206	63.5
Norway	11	1,068	97.1
Italy	33	1,017	30.8
Nepal	15	885	59.0
Canada	25	874	35.0
Argentina	22	873	39.7
Switzerland	17	846	49.8
Mexico	22	728	33.1

Peru	17	711	41.8
Pakistan	16	692	43.3
Australia	18	682	37.9
Costa Rica	6	544	90.7
Romania	19	523	27.5
Ecuador	11	503	45.7
Egypt	12	472	39.3
Bangladesh	9	469	52.1
Croatia	13	465	35.8
Sri Lanka	10	450	45.0
Chile	10	440	44.0
Saudi Arabia	6	434	72.3
Serbia	19	412	21.7
Greece	7	404	57.7
South Africa	11	393	35.7
Taiwan	5	367	73.4
Hong Kong	5	343	68.6
Thailand	6	290	48.3
Paraguay	11	285	25.9
Sweden	2	284	142.0
Uruguay	9	283	31.4
Japan	6	262	43.7
Malaysia	8	253	31.6
Bulgaria	3	243	81.0
Oman	2	223	111.5
Hungary	7	221	31.6
Iceland	1	220	220.0
Singapore	4	193	48.3
Belarus	2	170	85.0
Qatar	3	163	54.3
Slovenia	5	161	32.2
France	4	159	39.8
Bosnia and Herzegovina	5	145	29.0

In addition to the 58 here, there are 30 more with fewer articles.

6. Science, Technology, Engineering and Mathematics [STEM]

	Journals	Articles	Art/J
STEM	2,647	101,331	38.3

Only 17% of 2022 STEM gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	2,413	2,505	2,443	2,338	2,260	2,127
Articles	101,331	104,438	99,473	96,903	99,184	89,568
Art/Jrn	42.0	41.7	40.7	41.4	43.9	42.1
Change	-3.0%	5.0%	2.7%	-2.3%	10.7%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	12	11,954	996.2	11.8%
Large: 150-599	120	19,969	166.4	19.7%
Med.: 60-149	501	29,703	59.3	29.3%
Small: 20-59	1,361	35,136	25.8	34.7%
Smallest: 0-19	419	4,569	10.9	4.5%

Region

Region	Journals	Articles	Art/Jrn
Western Europe	466	29,676	63.7
Eastern Europe	729	24,351	33.4
Asia	483	15,197	31.5
Latin America	528	14,905	28.2
Middle East	268	10,517	39.2
Pacific/English	126	5,380	42.7
Africa	47	1,305	27.8

Western Europe has much larger journals on average.

Subject

Subject	Journals	Articles	Art/Jrn
Engineering	373	14,550	39.0
Earth Sciences	398	12,045	30.3
Physics	103	11,991	116.4
Ecology	323	11,651	36.1
Agriculture	336	11,051	32.9
Computer Science	252	8,907	35.3
Mathematics	249	8,290	33.3
Other Sciences	199	7,157	36.0
Technology	147	5,981	40.7
Zoology	172	5,019	29.2
Chemistry	95	4,689	49.4

Subject profiles are in alphabetic order following the list of countries.

Country of Publication, More than 600 Articles

Country	Journals	Articles	Art/Jrn
Russia	159	7,899	49.7
Brazil	227	7,401	32.6
Germany	80	7,122	89.0
United Kingdom	87	7,101	81.6
Indonesia	261	5,393	20.7
China	81	5,011	61.9
Iran	149	4,858	32.6
Netherlands	41	4,508	110.0
France	56	4,426	79.0
United States	95	4,025	42.4
Turkey	84	3,972	47.3
Poland	136	3,368	24.8
Romania	84	3,139	37.4
Ukraine	87	2,525	29.0
Spain	75	2,120	28.3
Italy	52	2,027	39.0
Colombia	94	2,013	21.4

Serbia	71	1,875	26.4
Croatia	34	1,155	34.0
Malaysia	36	1,101	30.6
Argentina	42	1,007	24.0
South Korea	9	899	99.9
Iraq	13	787	60.5
Cuba	30	778	25.9
Mexico	22	778	35.4
Australia	12	734	61.2
Peru	24	688	28.7
India	17	650	38.2
Thailand	11	618	56.2
Chile	21	617	29.4
Hungary	21	616	29.3
Belarus	15	605	40.3

In addition to these 32 countries, 67 others have fewer articles.

Agriculture

	Journals	Articles	Art/J
Agriculture	336	11,051	32.9

20% of 2022 Agriculture gold OA is diamond. Includes horticulture, forestry, and food processing.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	309	323	323	319	309	294
Articles	11,051	12,293	12,314	11,164	11,378	11,100
Art/Jrn	35.8	38.1	38.1	35.0	36.8	37.8
Change	-10.1%	-0.2%	10.3%	-1.9%	2.5%	

Overall, essentially flat since 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	13	2,020	155.4	18.3%
Med.: 60-149	84	4,289	51.1	38.8%
Small: 20-59	162	4,177	25.8	37.8%
Smallest: 0-19	50	565	11.3	5.1%

No largest journals.

Region

Region	Journals	Articles	Art/Jrn
Latin America	92	2,725	29.6
Eastern Europe	88	2,682	30.5
Western Europe	51	2,278	44.7
Asia	56	1,917	34.2
Middle East	39	1,317	33.8
Pacific/English	6	71	11.8
Africa	4	61	15.3

Latin America has more articles, Western Europe has larger journals.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	44	14.4%	
Even, $\pm 24.99\%$	180	58.8%	73.2%
Shrank 25%+	82	26.8%	
Total	306		

Slightly less growth than average.

Country of Publication, More than 57 Articles

In addition to these 33 countries, there are 21 more with fewer articles.

Country	Journals	Articles	Art/Jrn
Brazil	36	1,257	34.9
Indonesia	37	1,130	30.5
Italy	13	793	61.0
Russia	16	756	47.3
Turkey	20	700	35.0
Iran	17	485	28.5
Colombia	16	431	26.9
Romania	13	422	32.5
United Kingdom	8	372	46.5
Spain	9	333	37.0
France	6	316	52.7
India	5	300	60.0
Poland	15	291	19.4
Cuba	11	269	24.5
Argentina	8	251	31.4
Ukraine	7	219	31.3
Croatia	7	215	30.7
Netherlands	4	208	52.0
Serbia	13	208	16.0
China	4	207	51.8
Costa Rica	6	162	27.0
Germany	5	121	24.2
Slovenia	3	111	37.0
Bulgaria	2	104	52.0
Belgium	4	82	20.5
Hungary	3	81	27.0
Slovakia	2	81	40.5
Egypt	1	80	80.0
Mexico	2	79	39.5
Peru	4	75	18.8
South Korea	1	75	75.0
Montenegro	1	74	74.0
Sri Lanka	2	73	36.5

Chemistry

	Journals	Articles	Art/J
Chemistry	95	4,689	49.4

Only 8% of 2022 Chemistry gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	86	89	90	89	87	83
Articles	4,689	4,841	5,347	5,625	4,965	4,521
Art/Jrn	54.5	54.4	59.4	63.2	57.1	54.5
Change	-3.1%	-9.5%	-4.9%	13.3%	9.8%	

Ups and downs leave an overall flat picture.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,644	1,644.0	35.1%
Large: 150-599	5	421	84.2	9.0%
Med.: 60-149	20	1,300	65.0	27.7%
Small: 20-59	49	1,218	24.9	26.0%
Smallest: 0-19	11	106	9.6	2.3%

The one largest journal is more than a third of all articles.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	11	2,240	203.6
Eastern Europe	29	947	32.7
Middle East	18	559	31.1
Asia	18	538	29.9
Latin America	12	229	19.1
Pacific/English	3	124	41.3
Africa	4	52	13.0

That single journal accounts for most Western Europe articles.

Funding Category+

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	24	2,907	121.1	62.0%
Univ/Acad	60	1,709	28.5	36.4%
Other/Unknown	2	73	36.5	1.6%

Note the different order here: Societies account for 62% of articles.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	15	17.6%	
Even, $\pm 24.99\%$	56	65.9%	83.5%
Shrank 25%+	14	16.5%	
Total	85		

With two-thirds of journals even, both growth and shrinkage are low.

Country of Publication, More than 12 Articles

Country	Journals	Articles	Art/Jrn
United Kingdom	2	1,644	822.0
Iran	14	419	29.9
China	5	241	48.2
Serbia	5	211	42.2
Germany	3	207	69.0
Russia	4	186	46.5
Switzerland	1	184	184.0
Indonesia	11	173	15.7
Ukraine	6	133	22.2
India	1	116	116.0
Turkey	2	116	58.0
Croatia	4	115	28.8
Hungary	3	106	35.3
Spain	2	93	46.5
Slovenia	1	92	92.0
Brazil	3	85	28.3
United States	2	81	40.5

Netherlands	1	56	56.0
Cuba	2	48	24.0
Canada	1	43	43.0
Mexico	2	31	15.5
France	1	30	30.0
North Macedonia	1	29	29.0
Belarus	1	26	26.0
Colombia	2	26	13.0
Italy	1	26	26.0
Romania	1	26	26.0
Iraq	1	24	24.0
Morocco	2	18	9.0
South Africa	1	18	18.0
Ecuador	1	16	16.0
Ethiopia	1	16	16.0

In addition to these 32 countries, six more had fewer articles. (Clearly, the second United Kingdom journal had no articles in 2022.)

Computer Science

	Journals	Articles	Art/J
Computer Science	252	8,907	35.3

29% of 2022 Computer Science gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	229	232	229	216	206	198
Articles	8,907	8,586	7,660	7,114	6,830	6,251
Art/Jrn	38.9	37.0	33.4	32.9	33.2	31.6
Change	3.7%	12.1%	7.7%	4.2%	9.3%	

Growth every year, albeit slow in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	9	2,130	236.7	23.9%
Med.: 60-149	47	3,191	67.9	35.8%
Small: 20-59	124	3,002	24.2	33.7%
Smallest: 0-19	49	584	11.9	6.6%

No largest journals.

Region

Region	Journals	Articles	Art/Jrn
Asia	82	2,269	27.7
Eastern Europe	63	2,263	35.9
Western Europe	45	1,880	41.8
Pacific/English	22	1,345	61.1
Middle East	20	837	41.9
Latin America	19	301	15.8
Africa	1	12	12.0

Asia and Eastern Europe are essentially tied for most articles.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	183	6,142	33.6	69.0%
Soc/Gov	39	2,015	51.7	22.6%
Other/Unknown	7	750	107.1	8.4%

Universities are a bit lower than usual, with other/unknown higher.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	51	22.8%	
Even, \pm 24.99%	122	54.5%	77.2%
Shrank 25%+	51	22.8%	
Total	224		

Slightly less shrinkage than usual.

Country of Publication, More than 30 Articles

Country	Journals	Articles	Art/Jrn
Indonesia	53	1,192	22.5
Russia	18	976	54.2
United States	16	875	54.7
Iran	15	730	48.7
Poland	14	634	45.3
France	5	565	113.0
Malaysia	6	363	60.5
China	8	261	32.6
Australia	2	254	127.0
United Kingdom	8	247	30.9
Spain	7	223	31.9
Canada	3	216	72.0
Singapore	6	196	32.7
Netherlands	3	183	61.0
Portugal	4	170	42.5
Ukraine	6	170	28.3
Belgium	8	151	18.9
Germany	4	150	37.5
Serbia	4	145	36.3
Romania	8	130	16.3
Italy	4	111	27.8
Brazil	8	109	13.6
Belarus	3	81	27.0
Thailand	2	80	40.0
India	2	77	38.5
Austria	1	68	68.0
Taiwan	2	61	30.5
Argentina	3	46	15.3
Cuba	1	44	44.0
Colombia	3	40	13.3
Turkey	3	40	13.3
Iraq	1	38	38.0

In addition to these 32, 18 other countries have fewer articles.

Earth Sciences

	Journals	Articles	Art/J
Earth Sciences	398	12,045	30.3

23% of Earth Sciences 2022 gold OA is diamond. Includes astronomy, marine science, and mining.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	369	379	373	358	349	332
Articles	12,045	12,602	12,090	11,296	10,508	9,638
Art/Jrn	32.6	33.3	32.4	31.6	30.1	29.0
Change	-4.4%	4.2%	7.0%	7.5%	9.0%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	13	1,881	144.7	15.6%
Med.: 60-149	59	3,588	60.8	29.8%
Small: 20-59	230	5,876	25.5	48.8%
Smallest: 0-19	67	700	10.4	5.8%

No largest journals.

Region

Region	Journals	Articles	Art/Jrn
Latin America	99	3,033	30.6
Western Europe	91	3,014	33.1
Eastern Europe	123	2,897	23.6
Asia	34	1,525	44.9
Middle East	30	956	31.9
Pacific/English	16	401	25.1
Africa	5	219	43.8

Latin America just slightly ahead Of Western Europe.

Country of Publication, More than 79 Articles

In addition to these 33 countries, 24 more have fewer articles.

Country	Journals	Articles	Art/Jrn
Brazil	62	2,097	33.8
China	14	1,280	91.4
Russia	26	892	34.3
Spain	19	532	28.0
France	13	531	40.8
Poland	25	515	20.6
Turkey	12	450	37.5
Netherlands	8	401	50.1
Iran	16	382	23.9
Romania	19	364	19.2
Germany	16	337	21.1
Colombia	10	314	31.4
Denmark	5	273	54.6
United States	10	245	24.5
Italy	9	239	26.6
United Kingdom	3	229	76.3
Slovakia	7	221	31.6
Ukraine	11	183	16.6
Croatia	8	155	19.4
Argentina	9	151	16.8
Portugal	3	150	50.0
Indonesia	11	142	12.9
Mexico	5	136	27.2
Bulgaria	3	132	44.0
Chile	6	132	22.0
Egypt	2	124	62.0
South Africa	2	124	62.0
Slovenia	4	118	29.5
Canada	2	113	56.5
Serbia	7	94	13.4
Greece	2	89	44.5
Finland	5	83	16.6
Peru	2	83	41.5

Ecology

	Journals	Articles	Art/J
Ecology	323	11,651	36.1

14% of 2022 Ecology gold OA is diamond. Includes many journals that mention sustainability as part of their mission.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	289	304	294	279	261	241
Articles	11,651	11,424	9,536	8,491	8,060	7,758
Art/Jrn	40.3	37.6	32.4	30.4	30.9	32.2
Change	2.0%	19.8%	12.3%	5.3%	3.9%	

Growing every year, albeit slowly in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	13	3,186	245.1	27.3%
Med.: 60-149	64	3,802	59.4	32.6%
Small: 20-59	166	4,168	25.1	35.8%
Smallest: 0-19	46	495	10.8	4.2%

No largest journals.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	63	4,025	63.9
Latin America	84	2,480	29.5
Eastern Europe	61	1,702	27.9
Asia	51	1,423	27.9
Middle East	32	1,092	34.1
Pacific/English	18	718	39.9
Africa	14	211	15.1

Western Europe has a clear lead in articles and much larger journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	214	6,528	30.5	56.0%
Soc/Gov	60	4,636	77.3	39.8%
Other/Unknown	15	487	32.5	4.2%

More society/government and other/unknown than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	68	24.0%	
Even, $\pm 24.99\%$	143	50.5%	74.6%
Shrank 25%+	72	25.4%	
Total	283		

More growth than usual.

Country of Publication, More than 52 Articles

In addition to these 32, there are 27 more with fewer articles.

Country	Journals	Articles	Art/Jrn
United Kingdom	24	2,366	98.6
Brazil	45	1,186	26.4
China	15	779	51.9
Iran	24	768	32.0
United States	14	650	46.4
Russia	13	437	33.6
Croatia	3	425	141.7
Germany	6	416	69.3
Netherlands	6	389	64.8
Poland	17	354	20.8
Argentina	6	309	51.5
Spain	10	274	27.4
Indonesia	17	242	14.2
Mexico	4	239	59.8
Turkey	6	233	38.8
Colombia	10	214	21.4

Denmark	1	189	189.0
Romania	8	188	23.5
Italy	6	169	28.2
France	5	154	30.8
Costa Rica	3	142	47.3
Malaysia	6	129	21.5
Thailand	2	125	62.5
Chile	4	121	30.3
Peru	5	105	21.0
Egypt	2	91	45.5
Serbia	5	90	18.0
Nicaragua	2	72	36.0
Ecuador	2	67	33.5
Ukraine	3	61	20.3
Morocco	5	60	12.0
Canada	2	56	28.0

Engineering

	Journals	Articles	Art/J
Engineering	373	14,550	39.0

21% of 2022 Engineering gold OA is no-fee or diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	336	353	347	335	329	311
Articles	14,550	15,092	14,624	16,358	23,191	17,054
Art/Jrn	43.3	42.8	42.1	48.8	70.5	54.8
Change	-3.6%	3.2%	-10.6%	-29.5%	36.0%	

Mostly down years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	4	2,253	563.3	15.5%
Large: 150-599	23	3,031	131.8	20.8%
Med.: 60-149	66	3,532	53.5	24.3%
Small: 20-59	181	5,019	27.7	34.5%
Smallest: 0-19	62	715	11.5	4.9%

Region

Region	Journals	Articles	Art/Jrn
Eastern Europe	115	4,899	42.6
Western Europe	38	2,806	73.8
Asia	87	2,759	31.7
Latin America	76	1,909	25.1
Middle East	44	1,881	42.8
Pacific/English	9	209	23.2
Africa	4	87	21.8

Eastern Europe easily the largest, Western Europe the largest journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	294	11,665	39.7	80.2%
Soc/Gov	36	2,691	74.8	18.5%
Other/Unknown	6	194	32.3	1.3%

Universities and academia even more dominant than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	77	23.5%	
Even, $\pm 24.99\%$	175	53.4%	76.8%
Shrank 25%+	76	23.2%	
Total	328		

An unusually high percentage of journals show strong growth.

Country of Publication, More than 77 Articles

Country	Journals	Articles	Art/Jrn
Romania	16	1,595	99.7
Russia	25	1,322	52.9
France	2	1,086	543.0
China	13	995	76.5
Indonesia	47	917	19.5
Turkey	14	861	61.5
Iran	20	745	37.3
Brazil	17	606	35.6
Serbia	18	598	33.2
Colombia	28	560	20.0
United Kingdom	10	547	54.7
Netherlands	4	406	101.5
Poland	17	379	22.3
Malaysia	11	373	33.9
Italy	1	267	267.0
Czechia	8	211	26.4
Cuba	6	189	31.5
Ukraine	9	187	20.8
Greece	1	150	150.0
United States	7	142	20.3
Belarus	3	141	47.0
Spain	8	137	17.1
Slovakia	2	132	66.0
Iraq	5	123	24.6
Peru	4	115	28.8
Bahrain	1	110	110.0
Chile	4	108	27.0
Hungary	3	107	35.7
Pakistan	4	104	26.0
South Korea	1	92	92.0
Taiwan	3	87	29.0
Germany	7	80	11.4

In addition to these 32, another 32 have fewer articles.

Mathematics

	Journals	Articles	Art/J
Mathematics	249	8,290	33.3

35% of 2022 Mathematics gold OA is no-fee diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	232	235	221	207	201	187
Articles	8,290	8,577	6,994	6,185	5,803	5,609
Art/Jrn	35.7	36.5	31.6	29.9	28.9	30.0
Change	-3.3%	22.6%	13.1%	6.6%	3.5%	

Down slightly after two strong years, four years of growth.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	9	1,885	209.4	22.7%
Med.: 60-149	36	2,400	66.7	29.0%
Small: 20-59	131	3,411	26.0	41.1%
Smallest: 0-19	56	594	10.6	7.2%

No largest journals.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	58	2,081	35.9
Eastern Europe	69	1,934	28.0
Pacific/English	25	1,518	60.7
Middle East	28	1,151	41.1
Latin America	29	897	30.9
Asia	39	690	17.7
Africa	1	19	19.0

Western Europe leads, with Eastern Europe close behind.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	189	6,334	33.5	76.4%
Soc/Gov	35	1,124	32.1	13.6%
Other/Unknown	8	832	104.0	10.0%

More other/unknown than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	34	15.0%	
Even, $\pm 24.99\%$	134	59.3%	74.3%
Shrank 25%+	58	25.7%	
Total	226		

Fewer growing journals than usual.

Country of Publication, More than 21 Articles

Country	Journals	Articles	Art/Jrn
United States	21	1,189	56.6
United Kingdom	10	729	72.9
Brazil	15	685	45.7
Iran	17	638	37.5
Germany	18	609	33.8
Poland	18	484	26.9
Turkey	10	483	48.3
Russia	13	482	37.1
Indonesia	28	461	16.5
Australia	2	298	149.0
Ukraine	10	234	23.4
France	9	176	19.6
Netherlands	3	164	54.7
Lithuania	5	153	30.6
Romania	7	138	19.7
Italy	8	136	17.0
Pakistan	5	118	23.6

Austria	2	113	56.5
Belarus	1	109	109.0
Spain	6	104	17.3
Argentina	4	79	19.8
China	2	70	35.0
Hungary	2	70	35.0
Czechia	2	62	31.0
Colombia	5	59	11.8
Estonia	2	59	29.5
Croatia	3	49	16.3
Peru	2	47	23.5
Serbia	2	47	23.5
Bulgaria	1	32	32.0
Portugal	1	32	32.0
Israel	1	30	30.0

In addition to these 32, eleven more countries have fewer articles.

Other Sciences

	Journals	Articles	Art/J
Other Sciences	199	7,157	36.0

Only 7% of Other Sciences gold is diamond. Includes interdisciplinary, megajournals, and most proceedings.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	180	185	178	170	165	151
Articles	7,157	7,544	7,098	6,593	6,118	5,915
Art/Jrn	39.8	40.8	39.9	38.8	37.1	39.2
Change	-5.1%	6.3%	7.7%	7.8%	3.4%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	11	1,245	113.2	17.4%
Med.: 60-149	47	3,186	67.8	44.5%
Small: 20-59	99	2,502	25.3	35.0%
Smallest: 0-19	23	224	9.7	3.1%

No largest journals. Clearly, no successful megajournals are diamond.

Region

Region	Journals	Articles	Art/Jrn
Eastern Europe	49	1,770	36.1
Latin America	47	1,441	30.7
Asia	39	1,072	27.5
Middle East	17	1,002	58.9
Western Europe	21	819	39.0
Africa	12	610	50.8
Pacific/English	14	443	31.6

Eastern Europe first, Latin America second.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	47	26.7%	
Even, ±24.99%	87	49.4%	76.1%
Shrank 25%+	42	23.9%	
Total	176		

More rapidly-growing journals than usual.

Country of Publication, More than 61 Articles

Country	Journals	Articles	Art/Jrn
Brazil	18	743	41.3
Iraq	5	515	103.0
Russia	13	514	39.5
United States	10	346	34.6
Thailand	6	343	57.2
United Kingdom	4	297	74.3

Ukraine	6	274	45.7
Turkey	5	266	53.2
Indonesia	14	228	16.3
Serbia	8	218	27.3
Colombia	10	201	20.1
China	8	193	24.1
Libya	3	190	63.3
Ecuador	6	189	31.5
Poland	4	157	39.3
Mexico	3	140	46.7
France	3	127	42.3
South Africa	2	122	61.0
United Arab Emirates	1	119	119.0
Sri Lanka	2	106	53.0
Netherlands	2	104	52.0
Canada	4	97	24.3
Hungary	1	96	96.0
Romania	4	94	23.5
Bulgaria	3	85	28.3
Croatia	2	84	42.0
Algeria	2	82	41.0
Morocco	1	79	79.0
Lithuania	2	72	36.0
Viet Nam	1	67	67.0
Germany	4	65	16.3
Ethiopia	2	64	32.0
Switzerland	2	64	32.0

In addition to the 33 here, another 26 countries have fewer articles.

Physics

	Journals	Articles	Art/J
Physics	103	11,991	116.4

28% of 2022 Physics gold OA is diamond.

Journals and Articles

	2022	2021	2020	2019	2018	2017
Journals	95	100	95	87	81	78
Articles	11,991	11,993	13,708	14,198	12,828	12,797
Art/Jrn	126.2	119.9	144.3	163.2	158.4	164.1
Change	0.0%	-12.5%	-3.5%	10.7%	0.2%	

Flat year after two down years, now below 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	6	7,189	1,198.2	60.0%
Large: 150-599	11	2,470	224.5	20.6%
Med.: 60-149	15	875	58.3	7.3%
Small: 20-59	53	1,376	26.0	11.5%
Smallest: 0-19	10	81	8.1	0.7%

Distinctive, with large and largest journals dominant.

Region

Region	Journals	Articles	Art/Jrn
Western Europe	29	9,085	313.3
Asia	21	1,209	57.6
Eastern Europe	32	1,159	36.2
Pacific/English	5	215	43.0
Latin America	7	191	27.3
Middle East	9	132	14.7

Western Europe dominant, with much larger journals than elsewhere.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	15	16.0%	
Even, ±24.99%	53	56.4%	72.3%
Shrank 25%+	26	27.7%	
Total	94		

Fewer growing journals than usual.

Country of Publication, Complete List

Country	Journals	Articles	Art/Jrn
Germany	11	5,016	456.0
Netherlands	7	2,443	349.0
France	5	1,245	249.0
Ukraine	11	544	49.5
China	6	497	82.8
South Korea	1	481	481.0
Russia	11	397	36.1
United Kingdom	6	381	63.5
United States	5	215	43.0
Iran	9	132	14.7
Brazil	2	110	55.0
Indonesia	10	105	10.5
Poland	4	74	18.5
Japan	2	62	31.0
Singapore	1	47	47.0
Romania	1	42	42.0
Cuba	2	40	20.0
Moldova	1	35	35.0
Kazakhstan	2	34	17.0
Hungary	1	24	24.0
Colombia	2	22	11.0
Peru	1	19	19.0
India	1	17	17.0
Bulgaria	1	9	9.0

24 countries have diamond physics journals.

Technology

	Journals	Articles	Art/J
Technology	147	5,981	40.7

16% of 2022 Technology gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	130	137	131	126	122	112
Articles	5,981	6,101	4,832	4,979	4,574	4,378
Art/Jrn	46.0	44.5	36.9	39.5	37.5	39.1
Change	-2.0%	26.3%	-3.0%	8.9%	4.5%	

Small drop after a strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	868	868.0	14.5%
Large: 150-599	6	1,037	172.8	17.3%
Med.: 60-149	28	1,665	59.5	27.8%
Small: 20-59	83	2,256	27.2	37.7%
Smallest: 0-19	12	155	12.9	2.6%

Region

Region	Journals	Articles	Art/Jrn
Eastern Europe	59	3,179	53.9
Asia	38	1,147	30.2
Latin America	21	583	27.8
Middle East	8	576	72.0
Western Europe	17	397	23.4
Pacific/English	3	77	25.7
Africa	1	22	22.0

Eastern Europe by far the largest, Western Europe small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	114	5,018	44.0	83.9%
Soc/Gov	14	884	63.1	14.8%
Other/Unknown	2	79	39.5	1.3%

Universities and academia even more dominant than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	28	21.9%	
Even, $\pm 24.99\%$	73	57.0%	78.9%
Shrank 25%+	27	21.1%	
Total	128		

Fewer shrinking journals than usual.

Country of Publication, More than 23 Articles

Country	Journals	Articles	Art/Jrn
Russia	15	1,780	118.7
Indonesia	22	469	21.3
China	5	387	77.4
Ukraine	12	356	29.7
Poland	9	321	35.7
Turkey	2	317	158.5
Serbia	5	206	41.2
Brazil	7	196	28.0
Iran	5	172	34.4
Belarus	4	170	42.5
Costa Rica	1	134	134.0
United Kingdom	5	124	24.8
Spain	3	120	40.0
Romania	3	104	34.7
Iraq	1	87	87.0
Malaysia	3	86	28.7
Netherlands	2	84	42.0
India	3	77	25.7
South Korea	1	74	74.0
Chile	2	64	32.0
Belgium	4	57	14.3
Lithuania	1	45	45.0
Canada	1	39	39.0
Ecuador	2	38	19.0
United States	2	38	19.0

Hungary	1	37	37.0
Panama	2	37	18.5
Argentina	2	36	18.0
Croatia	1	35	35.0
Colombia	3	34	11.3
Czechia	3	29	9.7
Mexico	1	26	26.0
Taiwan	1	26	26.0

In addition to these 33, 13 other countries have fewer articles.

Zoology

	Journals	Articles	Art/J
Zoology	172	5,019	29.2

20% of 2022 Zoology gold is diamond. Includes veterinary medicine, fisheries and the like.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	158	168	162	152	150	140
Articles	5,019	5,385	5,270	4,900	4,929	4,547
Art/Jrn	31.8	32.1	32.5	32.2	32.9	32.5
Change	-6.8%	2.2%	7.6%	-0.6%	8.4%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	7	663	94.7	13.2%
Med.: 60-149	35	1,875	53.6	37.4%
Small: 20-59	83	2,131	25.7	42.5%
Smallest: 0-19	33	350	10.6	7.0%

No largest journals.

Region

Region	Journals	Articles	Art/Jrn
Latin America	42	1,116	26.6
Western Europe	42	1,051	25.0
Middle East	23	1,014	44.1
Eastern Europe	41	919	22.4
Asia	18	648	36.0
Pacific/English	5	259	51.8
Africa	1	12	12.0

Unusual, with Latin America closely followed by Western Europe and the Middle East,

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	117	3,380	28.9	67.3%
Soc/Gov	38	1,528	40.2	30.4%
Other/Unknown	3	111	37.0	2.2%

More society/government activity than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	36	22.8%	
Even, $\pm 24.99\%$	84	53.2%	75.9%
Shrank 25%+	38	24.1%	
Total	158		

Slightly more growth than usual.

Country of Publication, More than 23 Articles

Country	Journals	Articles	Art/Jrn
Turkey	10	506	50.6
Indonesia	11	334	30.4
Iran	10	333	33.3
Brazil	14	327	23.4
Spain	8	244	30.5
Italy	9	225	25.0

United States	4	194	48.5
Peru	3	190	63.3
France	6	186	31.0
Egypt	3	175	58.3
United Kingdom	7	165	23.6
Ukraine	6	164	27.3
Russia	5	157	31.4
Poland	11	148	13.5
Bulgaria	3	141	47.0
South Korea	2	139	69.5
Germany	5	121	24.2
Chile	2	115	57.5
Colombia	5	112	22.4
Cuba	3	106	35.3
Mexico	3	106	35.3
China	1	101	101.0
Argentina	6	88	14.7
Netherlands	1	70	70.0
Australia	1	65	65.0
Slovakia	2	60	30.0
Serbia	4	58	14.5
Malaysia	2	43	21.5
Hungary	2	37	18.5
Romania	4	36	9.0
Czechia	1	34	34.0
Bosnia and Herzegovina	1	32	32.0
Moldova	1	31	31.0

In addition to these 33, another 11 countries have fewer articles.

7. Africa

The first of seven chapters looking at regions (or pseudo-regions) and offering brief notes on countries with fewer than ten diamond OA journals. Chapter 14 consists of profiles for the countries with ten or more such journals, in alphabetic order.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	126	3,656			29.0
H&SS	50	1,307	36%	-32%	26.1
Biomed	29	1,044	29%	15%	36.0
STEM	47	1,305	36%	55%	27.8

35% of African gold OA is diamond. High in STEM, low in H&SS.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	121	123	120	114	103	97
Articles	3,656	3,517	3,609	3,211	3,093	2,934
Art/Jrn	30.2	28.6	30.1	28.2	30.0	30.2
Change	4.0%	-2.5%	12.4%	3.8%	5.4%	

Basically flat since 2020.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	96	48.0	2.6%
Med.: 60-149	27	1,473	54.6	40.3%
Small: 20-59	67	1,799	26.9	49.2%
Smallest: 0-19	25	288	11.5	7.9%

No largest journals.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	40	33.6%	
Even, ±24.99%	55	46.2%	79.8%
Shrank 25%+	24	20.2%	
Total	119		

Considerably more journals growing quickly than usual.

Country of Publication

Country	Journals	Articles	Art/Jrn
South Africa	39	1,177	30.2
Algeria	23	680	29.6
Morocco	26	604	23.2
Ethiopia	10	283	28.3
Libya	4	203	50.8
Angola	5	117	23.4
Tunisia	6	101	16.8
Ghana	3	97	32.3
Mali	1	90	90.0
Dem. Rep. Congo	1	56	56.0
Kenya	2	55	27.5
Nigeria	2	45	22.5
Malawi	1	42	42.0
South Sudan	1	40	40.0
Rwanda	1	34	34.0
Zimbabwe	1	32	32.0

The first four are profiled in Chapter 14; the others are summarized after the Subject table.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	27	1,043	38.6
Other Sciences	12	610	50.8
Economics	14	445	31.8
Miscellany	9	248	27.6
Earth Sciences	5	219	43.8
Ecology	14	211	15.1
Education	5	183	36.6
Language & Literature	3	125	41.7
Engineering	4	87	21.8
Political Science	3	70	23.3
Arts & Architecture	3	67	22.3
Agriculture	4	61	15.3
Anthropology	4	56	14.0
Chemistry	4	52	13.0
Law	3	50	16.7
Religion	2	32	16.0
Library Science	2	24	12.0
Technology	1	22	22.0
Mathematics	1	19	19.0
Computer Science	1	12	12.0
Zoology	1	12	12.0
History	1	7	7.0
Biology	2	1	0.5
Sociology	1	0	0.0

Countries with Fewer than 10 Journals**Angola**

Five journals, all from universities, two Miscellany, one each on Earth Sciences, Education, and Medicine. 117 articles in 2022. All diamond.

Dem. Rep. Congo

One university-based medical journal with 56 articles in 2022. 33% of gold OA is diamond.

Ghana

Two university-based miscellany, one society-based medicine. In all, 97 2022 articles (70 of them in the medical journal). 48% of gold OA is diamond.

Kenya

Two journals: one society-based library science, one university-based medical. In all, 55 articles in 2022. 81% of gold OA is diamond.

Libya

Four university-based, one ecology and three other sciences. In all, 203 articles in 2022. 56% of gold OA is diamond.

Malawi

One university-based medical journal with 42 articles. All diamond.

Mali

One society-based medical journal with 90 articles. All diamond.

Nigeria

Two university-based: one ecology, one other sciences. Total of 45 articles in 2022. Only 4% of 2022 gold OA is diamond.

Rwanda

One university-based medical journal with 34 articles in 2022. All diamond.

South Sudan

One university-based medical journal with 40 articles in 2022. All diamond.

Tunisia

Six journals, all but one (a society-based anthropology journal) university-based: one each agriculture, anthropology, ecology, economics, and medicine. Total of 101 articles in 2022. All diamond.

Zimbabwe

One society-based miscellany journal with 32 articles in 2022. All diamond.

8. Asia

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	1,853	59,232			32.0
H&SS	900	18,492	31%	-40%	20.5
Biomed	470	25,543	43%	74%	54.3
STEM	483	15,197	26%	11%	31.5

45% of Asia's 2022 gold OA is diamond. Very strong on biomed, weak on H&SS.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	1,726	1,776	1,730	1,627	1,533	1,411
Articles	59,232	57,964	52,914	45,648	42,540	40,246
Art/Jrn	34.3	32.6	30.6	28.1	27.7	28.5
Change	2.2%	9.5%	15.9%	7.3%	5.7%	

Growing every year, albeit slowly in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	6	4,265	710.8	7.2%
Large: 150-599	62	10,078	162.5	17.0%
Med.: 60-149	250	16,074	64.3	27.1%
Small: 20-59	910	22,815	25.1	38.5%
Smallest: 0-19	498	6,000	12.0	10.1%

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	1,376	38,683	28.1	65.3%
Soc/Gov	313	19,381	61.9	32.7%
Other/Unknown	37	1,168	31.6	2.0%

Slightly more society/government funding than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	354	20.8%	
Even, $\pm 24.99\%$	1,031	60.5%	81.3%
Shrank 25%+	319	18.7%	
Total	1,704		

Less shrinkage than usual; high percentage of stable journals.

Country of Publication

Country	Journals	Articles	Art/Jrn
Indonesia	1,064	22,449	21.1
India	231	13,882	60.1
China	113	7,004	62.0
South Korea	93	5,383	57.9
Malaysia	77	2,140	27.8
Pakistan	71	1,826	25.7
Nepal	24	1,021	42.5
Thailand	23	1,006	43.7
Sri Lanka	20	689	34.5
Singapore	23	649	28.2
Taiwan	22	647	29.4
Bangladesh	13	582	44.8
Japan	28	511	18.3
Hong Kong	12	495	41.3
Viet Nam	10	431	43.1
Philippines	20	419	21.0
Mongolia	5	46	9.2
Kyrgyzstan	2	38	19.0
Brunei Darussalam	1	7	7.0
Uzbekistan	1	7	7.0

India and China have larger journals, but Indonesia has many more. The four countries at the bottom are discussed after the Subject list; the rest are profiled in Chapter 14.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	437	24,657	56.4
Education	190	4,646	24.5
Economics	174	3,692	21.2
Engineering	87	2,759	31.7
Computer Science	82	2,269	27.7
Religion	116	1,991	17.2
Agriculture	56	1,917	34.2
Language & Literature	84	1,586	18.9
Earth Sciences	34	1,525	44.9
Law	81	1,496	18.5
Ecology	51	1,423	27.9
Anthropology	58	1,258	21.7
Physics	21	1,209	57.6
Technology	38	1,147	30.2
Other Sciences	39	1,072	27.5
Biology	33	886	26.8
Sociology	44	758	17.2
Political Science	36	748	20.8
Mathematics	39	690	17.7
Zoology	18	648	36.0
Miscellany	25	621	24.8
Chemistry	18	538	29.9
Arts & Architecture	22	532	24.2
Media & Communications	20	398	19.9
Psychology	20	336	16.8
Library Science	16	246	15.4
Philosophy	10	145	14.5
History	4	39	9.8

Countries with Fewer than 10 Journals

Brunei Darussalam

One university-based religion journal with seven 2022 articles. All diamond.

Kyrgyzstan

Two university-based journals: economics and engineering. In all, 38 2022 articles. 34% diamond.

Mongolia

Five university-based journals: biology, chemistry, earth sciences, other sciences, political science. Total of 46 2022 articles. 71% diamond.

Uzbekistan

One university-based arts & architecture journal with seven articles in 2022. Less than 1% diamond.

9. Eastern Europe

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	2,565	92,311			36.0
H&SS	1,505	48,454	52%	0%	32.2
Biomed	331	19,506	21%	-15%	58.9
STEM	729	24,351	26%	15%	33.4

Slightly lean in biomed and rich in STEM. A high 71% of all 2022 gold OA is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	2,312	2,422	2,397	2,329	2,237	2,103
Articles	92,311	97,616	83,719	81,915	80,588	78,018
Art/Jrn	39.9	40.3	34.9	35.2	36.0	37.1
Change	-5.4%	16.6%	2.2%	1.6%	3.3%	

Small decrease after strong growth.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	10	11,324	1,132.4	12.3%
Large: 150-599	73	12,571	172.2	13.6%
Med.: 60-149	517	29,790	57.6	32.3%
Small: 20-59	1,360	35,046	25.8	38.0%
Smallest: 0-19	352	3,580	10.2	3.9%

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	375	16.4%	
Even, ±24.99%	1,319	57.8%	74.2%
Shrank 25%+	588	25.8%	
Total	2,282		

Fewer growing journals than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	295	18,218	61.8
Language & Literature	247	6,933	28.1
Economics	218	6,428	29.5
Law	116	5,596	48.2
Anthropology	167	5,162	30.9
Engineering	115	4,899	42.6
Sociology	101	4,716	46.7
Political Science	132	4,680	35.5
Education	116	3,860	33.3
Technology	59	3,179	53.9
Earth Sciences	123	2,897	23.6
Agriculture	88	2,682	30.5
Computer Science	63	2,263	35.9
History	79	1,989	25.2
Mathematics	69	1,934	28.0
Philosophy	78	1,821	23.3
Other Sciences	49	1,770	36.1
Miscellany	52	1,756	33.8
Ecology	61	1,702	27.9
Psychology	44	1,543	35.1
Arts & Architecture	55	1,464	26.6
Biology	36	1,288	35.8
Physics	32	1,159	36.2
Religion	39	1,011	25.9
Chemistry	29	947	32.7
Zoology	41	919	22.4
Media & Communications	32	865	27.0
Library Science	29	630	21.7

Country of Publication

Country	Journals	Articles	Art/Jrn
Russia	521	32,291	62.0
Poland	634	16,642	26.2
Romania	287	11,545	40.2
Ukraine	229	7,056	30.8
Serbia	199	5,053	25.4
Croatia	134	3,448	25.7
Czechia	113	2,736	24.2
Moldova	31	2,250	72.6
Slovenia	63	1,997	31.7
Lithuania	76	1,586	20.9
Bulgaria	46	1,518	33.0
Hungary	59	1,468	24.9
Slovakia	45	1,292	28.7
Bosnia and Herzegovina	34	872	25.6
Belarus	21	864	41.1
Estonia	23	529	23.0
Armenia	10	177	17.7
Kazakhstan	6	175	29.2
Latvia	9	171	19.0
Montenegro	5	149	29.8
North Macedonia	9	148	16.4
Albania	3	139	46.3
Georgia	4	108	27.0
Cyprus	2	65	32.5
Azerbaijan	1	23	23.0
Turkmenistan	1	9	9.0

Countries with ten or more journals are profiled in Chapter 14. Others are summarized here.

Countries with Fewer than 10 Journals

Albania

Two university (one miscellany, one sociology), one society (sociology). In all, 139 articles. 57% of Albania's gold OA in 2022 is diamond.

Azerbaijan

One university-based technology journal with 23 articles. All diamond.

Cyprus

One university-based sociology journal, one society-based language & literature. 65 articles. All diamond.

Georgia

Two university (economics, law) and two society (computer science, law). Total of 108 articles. All diamond.

Kazakhstan

Two society (computer science, medicine), four university (two physics, one each earth sciences and medicine). 175 articles. 13% diamond.

Latvia

Nine university-based journals, total 171 articles. Two each computer science and law, one each biology, earth sciences, engineering, history, language & literature. 45% diamond.

Montenegro

Five university-based journals, 149 articles. Two anthropology, one each agriculture, economics, language & literature. 42% diamond.

North Macedonia

Nine journals, 148 articles. Two society: chemistry and earth sciences. Seven university: two each language & literature, medicine, one each engineering, political science, zoology. 41% diamond.

Turkmenistan

One university-based economics journal, nine articles. All diamond.

10. Latin America

If Eastern Europe is impressive with 71% of gold OA being diamond, Latin America is much more so: 91% of gold OA articles in 2022 were diamond, published without author-side fees.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	3,029	105,693			34.9
H&SS	2,125	72,051	68%	30%	33.9
Biomed	376	18,737	18%	-28%	49.8
STEM	528	14,905	14%	-39%	28.2

Very strong on H&SS, accounting for more than two-thirds of all articles; not surprisingly, comparatively thin on biomed and STEM.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	2,821	2,925	2,942	2,898	2,828	2,725
Articles	105,693	114,887	110,502	97,447	95,947	90,974
Art/Jrn	37.5	39.3	37.6	33.6	33.9	33.4
Change	-8.0%	4.0%	13.4%	1.6%	5.5%	

Down in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	4	5,081	1,270.3	4.8%
Large: 150-599	101	15,763	156.1	14.9%
Med.: 60-149	655	35,916	54.8	34.0%
Small: 20-59	1,767	45,498	25.7	43.0%
Smallest: 0-19	294	3,435	11.7	3.2%

More than three-quarters of articles are in small and medium journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	2,519	87,790	34.9	83.1%
Soc/Gov	300	17,685	59.0	16.7%
Other/Unknown	2	218	109.0	0.2%

Even more university/academia than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	534	19.0%	
Even, $\pm 24.99\%$	1,470	52.4%	71.4%
Shrank 25%+	802	28.6%	
Total	2,806		

Slightly more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	346	17,417	50.3
Education	317	15,126	47.7
Sociology	191	7,793	40.8
Economics	212	6,928	32.7
Language & Literature	206	6,576	31.9
Anthropology	215	6,274	29.2
Law	179	4,695	26.2
Miscellany	130	4,623	35.6
History	124	3,868	31.2
Arts & Architecture	116	3,468	29.9
Political Science	120	3,334	27.8
Earth Sciences	99	3,033	30.6
Agriculture	92	2,725	29.6
Philosophy	85	2,712	31.9
Media & Communications	90	2,693	29.9
Ecology	84	2,480	29.5
Psychology	75	2,192	29.2
Engineering	76	1,909	25.1
Other Sciences	47	1,441	30.7

Biology	30	1,320	44.0
Zoology	42	1,116	26.6
Library Science	35	972	27.8
Mathematics	29	897	30.9
Religion	30	797	26.6
Technology	21	583	27.8
Computer Science	19	301	15.8
Chemistry	12	229	19.1
Physics	7	191	27.3

Country of Publication

Country	Journals	Articles	Art/Jrn
Brazil	1,433	56,010	39.1
Colombia	422	10,373	24.6
Argentina	339	8,863	26.1
Mexico	182	7,514	41.3
Cuba	114	7,362	64.6
Chile	140	3,532	25.2
Ecuador	83	3,093	37.3
Peru	113	3,068	27.2
Costa Rica	73	2,406	33.0
Uruguay	33	846	25.6
Paraguay	27	828	30.7
Venezuela	26	707	27.2
Nicaragua	8	255	31.9
Guatemala	3	202	67.3
Dominican Republic	7	178	25.4
Bolivia	7	133	19.0
Panama	5	107	21.4
Barbados	2	98	49.0
El Salvador	3	34	11.3
Honduras	4	28	7.0
Trinidad and Tobago	1	25	25.0
Guadeloupe	1	15	15.0
Puerto Rico	2	9	4.5
Bahamas	1	7	7.0

Countries with Fewer than 10 Journals

Bahamas

One university anthropology journal with seven articles. All diamond.

Barbados

Two university education journals, 98 articles total. All diamond.

Bolivia

Seven journals, 133 articles. Four university-based (two medicine, one each economics and engineering); three society (agriculture, biology, zoology). 83% of 2022 gold OA is diamond.

Dominican Republic

Seven university-based with 178 articles: three education, two miscellany, one each ecology and medicine. All diamond.

El Salvador

Three university-based with 34 articles: two miscellany, one library science. All diamond.

Guadeloupe

One university-based education, 15 articles. All diamond.

Guatemala

Three university-based: engineering, medicine, psychology. 202 articles total. All diamond.

Honduras

Three university-based (anthropology, medicine, political science) and one society (law). Total of 28 articles. All diamond.

Nicaragua

Eight journals, all university-based, 255 articles total: two ecology, one each agriculture, anthropology, arts & architecture, engineering, miscellany and technology. All diamond.

Panama

Five university-based journals with 107 articles: two other sciences, two technology, one engineering. All diamond.

Puerto Rico

Two university-based, nine articles: economics and psychology. All diamond.

Trinidad and Tobago

One society-based medical journal with 25 articles. All diamond.

11. Middle East

The third region where *most* gold OA is diamond, although in this case it's only 54%

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	990	40,268			40.7
H&SS	369	14,211	35%	-32%	38.5
Biomed	353	15,540	39%	56%	44.0
STEM	268	10,517	26%	13%	39.2

Strong on biomed, lean on H&SS.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	934	963	933	885	860	811
Articles	40,268	40,986	33,699	30,945	29,176	26,578
Art/Jrn	43.1	42.6	36.1	35.0	33.9	32.8
Change	-1.8%	21.6%	8.9%	6.1%	9.8%	

Slight downturn after a very strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	3	3,041	1,013.7	7.6%
Large: 150-599	36	6,043	167.9	15.0%
Med.: 60-149	207	13,312	64.3	33.1%
Small: 20-59	601	16,901	28.1	42.0%
Smallest: 0-19	87	971	11.2	2.4%

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	774	33,450	43.2	83.1%
Soc/Gov	150	6,248	41.7	15.5%
Other/Unknown	10	570	57.0	1.4%

Even more university/academia funding than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	171	18.4%	
Even, $\pm 24.99\%$	545	58.8%	77.2%
Shrank 25%+	211	22.8%	
Total	927		

Slightly less shrinkage than usual.

Country of Publication

Country	Journals	Articles	Art/Jrn
Iran	461	18,089	39.2
Turkey	427	17,871	41.9
Iraq	25	1,414	56.6
Egypt	26	1,057	40.7
Saudi Arabia	13	599	46.1
Qatar	11	380	34.5
Oman	7	332	47.4
United Arab Emirates	4	192	48.0
Bahrain	1	110	110.0
Israel	3	102	34.0
Yemen	6	52	8.7
Jordan	1	29	29.0
Syria	2	19	9.5
Lebanon	1	12	12.0
Palestine	2	10	5.0

The first six are profiled in Chapter 14; the rest are summarized after the Subject table.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	337	15,005	44.5
Library Science	7	2,052	293.1
Economics	57	1,893	33.2
Engineering	44	1,881	42.8
Education	65	1,836	28.2
Religion	29	1,801	62.1
Agriculture	39	1,317	33.8
Mathematics	28	1,151	41.1
Sociology	28	1,133	40.5
Ecology	32	1,092	34.1
Zoology	23	1,014	44.1
Other Sciences	17	1,002	58.9
Anthropology	36	1,001	27.8
Earth Sciences	30	956	31.9
Language & Literature	33	928	28.1
Computer Science	20	837	41.9
Arts & Architecture	21	828	39.4
Miscellany	18	638	35.4
Technology	8	576	72.0
Chemistry	18	559	31.1
Law	21	548	26.1
Biology	16	535	33.4
Political Science	13	370	28.5
History	12	369	30.8
Media & Communications	11	351	31.9
Psychology	10	316	31.6
Philosophy	8	147	18.4
Physics	9	132	14.7

Countries with Fewer than 10 Journals

Bahrain

One university-based engineering journal: 110 articles. All diamond.

Israel

Three university-based journals (language & literature, mathematics, medicine), 102 articles. All diamond.

Jordan

One university-based computer science journal: 29 articles. All diamond.

Lebanon

One society-based other sciences journal: 12 articles. All diamond.

Oman

Seven university-based journals: two each medicine and other sciences, one each engineering, miscellany and psychology. 332 articles. All diamond.

Palestine

Two university-based engineering journals, ten articles. All diamond.

Syria

Two journals (biology, other sciences) with other/unknown funding. 19 articles. 12% of Syria's 2022 gold OA is diamond.

United Arab Emirates

Three university-based (economics, education, medicine) and one society-based (other sciences). 192 articles. 69% of gold OA is diamond.

Yemen

Six university-based journals: three miscellany, one each education, medicine, sociology. 52 articles. 54% of gold OA is diamond.

12. Pacific/English

After the three regions with mostly diamond OA come the two (one a pseudo-region) with the lowest diamond percentages.

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	847	26,500			31.3
H&SS	579	15,868	60%	15%	27.4
Biomed	142	5,252	20%	-20%	37.0
STEM	126	5,380	20%	-12%	42.7

Somewhat rich on H&SS and light on biomed. Only 17% of gold OA in 2022 was diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	755	786	766	734	692	666
Articles	26,500	28,034	23,298	20,590	19,354	19,421
Art/Jrn	35.1	35.7	30.4	28.1	28.0	29.2
Change	-5.5%	20.3%	13.2%	6.4%	-0.3%	

Down slightly in 2022 after two strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	530	265.0	2.0%
Large: 150-599	34	5,826	171.4	22.0%
Med.: 60-149	128	8,234	64.3	31.1%
Small: 20-59	407	10,151	24.9	38.3%
Smallest: 0-19	184	1,759	9.6	6.6%

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	538	16,816	31.3	63.5%
Soc/Gov	192	8,253	43.0	31.1%
Other/Unknown	25	1,431	57.2	5.4%

More society-based publishing than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	175	23.8%	
Even, $\pm 24.99\%$	356	48.5%	72.3%
Shrank 25%+	203	27.7%	
Total	734		

More rapidly-growing journals than usual.

Country of Publication

Country	Journals	Articles	Art/Jrn
United States	580	18,253	31.5
Canada	168	4,812	28.6
Australia	81	3,077	38.0
New Zealand	18	358	19.9

All four are profiled in Chapter 14.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	135	4,992	37.0
Education	120	3,667	30.6
Anthropology	72	1,772	24.6
Language & Literature	60	1,612	26.9
Political Science	31	1,523	49.1
Mathematics	25	1,518	60.7
Computer Science	22	1,345	61.1
Philosophy	37	1,057	28.6
Sociology	54	1,009	18.7
Library Science	36	977	27.1
Law	15	839	55.9
Economics	28	729	26.0
Ecology	18	718	39.9
Media & Communications	29	660	22.8
Religion	16	624	39.0
Arts & Architecture	26	491	18.9
Other Sciences	14	443	31.6
Miscellany	26	407	15.7
Earth Sciences	16	401	25.1
History	20	337	16.9
Biology	7	260	37.1
Zoology	5	259	51.8
Physics	5	215	43.0
Engineering	9	209	23.2
Psychology	9	164	18.2
Chemistry	3	124	41.3
Technology	3	77	25.7
Agriculture	6	71	11.8

13. Western Europe

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	3,024	112,549			37.2
H&SS	2,186	59,620	53%	1%	27.3
Biomed	372	23,253	21%	-16%	62.5
STEM	466	29,676	26%	15%	63.7

Light in biomed, fairly rich elsewhere. There's a lot of diamond OA in Western Europe—but only 14% of total gold OA in 2022.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	2,758	2,836	2,772	2,666	2,545	2,396
Articles	112,549	116,243	105,621	95,987	99,567	90,246
Art/Jrn	40.8	41.0	38.1	36.0	39.1	37.7
Change	-3.2%	10.1%	10.0%	-3.6%	10.3%	

Down a bit after two fairly strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	20	20,739	1,037.0	18.4%
Large: 150-599	107	18,574	173.6	16.5%
Med.: 60-149	475	28,169	59.3	25.0%
Small: 20-59	1,579	39,014	24.7	34.7%
Smallest: 0-19	577	6,053	10.5	5.4%

Nearly half of all largest journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	2,030	70,095	34.5	62.3%
Soc/Gov	628	37,487	59.7	33.3%
Other/Unknown	100	4,967	49.7	4.4%

More society-based publishing than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	606	22.6%	
Even, ±24.99%	1,367	50.9%	73.5%
Shrank 25%+	712	26.5%	
Total	2,685		

Slightly more growing journals than usual.

Country of Publication

Country	Journals	Articles	Art/Jrn
Spain	901	28,731	31.9
United Kingdom	467	19,994	42.8
Germany	237	13,122	55.4
Italy	421	12,528	29.8
France	263	11,227	42.7
Netherlands	138	9,686	70.2
Portugal	144	4,615	32.0
Norway	110	2,947	26.8
Switzerland	62	2,445	39.4
Finland	58	1,395	24.1
Greece	31	1,358	43.8
Denmark	43	1,153	26.8
Sweden	35	983	28.1
Austria	40	930	23.3
Belgium	49	839	17.1
Iceland	6	318	53.0
Ireland	14	231	16.5
Malta	2	28	14.0
Luxembourg	2	11	5.5
Åland Islands	1	8	8.0

Most countries profiled in Chapter 14. Four are summarized below.

Countries with Fewer than 10 Journals

All four of these are entirely diamond, with no fee-based OA.

Åland Islands

One university-based political science journal with eight articles.

Iceland

Six journals with 300 articles total: one society-based medical journal, two university-based anthropology journals, one each university-based in education, language & literature, and political science.

Luxembourg

Two university-based journals, anthropology and history. Eleven articles.

Malta

Two university-based journals, psychology and sociology. 28 articles.

14. Countries with Ten or More Diamond Journals

Countries appear in alphabetic order. Key facts always appear first, without a heading. As usual, funding category and growth/shrinkage tables appear only when they're out of the ordinary, to wit:

- Funding category tables appear when less than 70% or more than 80% of articles are in university-based journals, or when more than 4% are other/unknown. Others/unknown not noted when absent.
- Growth and shrinkage appear when growth is less than 18% or greater than 22%, or when shrinkage is less than 23% or more than 28%.

Algeria

	Journals	Articles	Art%	Rel%	Art/J
All	23	680			29.6
H&SS	7	347	51%	-2%	49.6
Biomed	4	45	7%	-73%	11.3
STEM	12	288	42%	84%	24.0

Very little biomed, and relatively very strong on STEM. Almost all diamond (94%).

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	22	23	21	20	18	16
Articles	680	644	743	675	619	502
Art/Jrn	30.9	28.0	35.4	33.8	34.4	31.4
Change	5.6%	-13.3%	10.1%	9.0%	23.3%	

Recovering from an off 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	6	258	43.0	37.9%
Small: 20-59	12	368	30.7	54.1%
Smallest: 0-19	4	54	13.5	7.9%

Mostly small, no large or largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	20	649	32.45	95.4%
Soc/Gov	2	31	15.5	4.6%

Almost entirely university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	7	31.8%	
Even, $\pm 24.99\%$	13	59.1%	90.9%
Shrank 25%+	2	9.1%	
Total	22		

More rapidly growing (and fewer shrinking) journals than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Economics	2	126	63.0
Language & Literature	3	125	41.7
Miscellany	2	96	48.0
Other Sciences	2	82	41.0
Engineering	3	72	24.0
Agriculture	2	53	26.5
Medicine	3	45	15.0
Ecology	3	40	13.3
Technology	1	22	22.0
Mathematics	1	19	19.0
Biology	1	0	0.0

Argentina

	Journals	Articles	Art%	Rel%	Art/J
All	339	8,863			26.1
H&SS	272	6,921	78%	49%	25.4
Biomed	25	935	11%	-57%	37.4
STEM	42	1,007	11%	-51%	24.0

Three-quarters H&SS. Very light in STEM and biomed. 96% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	324	328	330	323	312	302
Articles	8,863	9,266	8,824	7,501	7,375	6,482
Art/Jrn	27.4	28.3	26.7	23.2	23.6	21.5
Change	-4.3%	5.0%	17.6%	1.7%	13.8%	

Strong 2020, basically a wash in 2021-2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	6	1,048	174.7	11.8%
Med.: 60-149	30	1,588	52.9	17.9%
Small: 20-59	224	5,503	24.6	62.1%
Smallest: 0-19	64	724	11.3	8.2%

No largest and almost two-thirds small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	284	7,211	25.39085	81.4%
Soc/Gov	40	1,652	41.3	18.6%

Predominantly university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	71	22.3%	
Even, $\pm 24.99\%$	169	53.0%	75.2%
Shrank 25%+	79	24.8%	
Total	319		

Just a bit more growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
History	32	1,025	32.0
Education	27	933	34.6
Medicine	22	873	39.7
Anthropology	39	853	21.9
Sociology	37	812	21.9
Arts & Architecture	22	724	32.9
Language & Literature	25	662	26.5
Miscellany	12	324	27.0
Ecology	6	309	51.5
Media & Communications	10	266	26.6
Economics	19	260	13.7
Agriculture	8	251	31.4
Political Science	12	251	20.9
Law	13	247	19.0
Psychology	7	219	31.3
Philosophy	10	173	17.3
Earth Sciences	9	151	16.8
Religion	4	102	25.5
Zoology	6	88	14.7
Mathematics	4	79	19.8
Library Science	3	70	23.3
Biology	3	62	20.7
Computer Science	3	46	15.3
Technology	2	36	18.0
Engineering	2	26	13.0
Other Sciences	2	21	10.5

Armenia

	Journals	Articles	Art%	Rel%	Art/J
All	10	177			17.7
H&SS	8	169	95%	83%	21.1
STEM	2	8	5%	-80%	4.0

Predominantly H&SS. No biomed. All diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	10	10	7	7	6	6
Articles	177	154	115	132	101	159
Art/Jrn	17.7	15.4	16.4	18.9	16.8	26.5
Change	14.9%	33.9%	-12.9%	30.7%	-36.5%	

Strong growth for two years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	1	25	25.0	14.1%
Small: 20-59	5	119	23.8	67.2%
Smallest: 0-19	4	33	8.3	18.6%

Essentially all smallish, but one journal was medium-sized in 2017.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	2	20.0%	
Even, ±24.99%	7	70.0%	90.0%
Shrank 25%+	1	10.0%	
Total	10		

Only one shrinking journal.

Subject

Subject	Journals	Articles	Art/Jrn
Language & Literature	2	45	22.5
Arts & Architecture	1	28	28.0
History	1	28	28.0
Education	1	25	25.0
Anthropology	1	19	19.0
Sociology	1	18	18.0
Mathematics	2	8	4.0
Political Science	1	6	6.0

Australia

	Journals	Articles	Art%	Rel%	Art/J
All	81	3,077			38.0
H&SS	50	1,661	54%	3%	33.2
Biomed	19	682	22%	-10%	35.9
STEM	12	734	24%	4%	61.2

A little light on biomed. Only 38% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	69	74	77	74	70	70
Articles	3,077	3,458	2,447	2,329	2,264	2,337
Art/Jrn	44.6	46.7	31.8	31.5	32.3	33.4
Change	-11.0%	41.3%	5.1%	2.9%	-3.1%	

Down after a very strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	492	492.0	16.0%
Large: 150-599	2	467	233.5	15.2%
Med.: 60-149	18	1,182	65.7	38.4%
Small: 20-59	33	781	23.7	25.4%
Smallest: 0-19	15	155	10.3	5.0%

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	9	13.4%	
Even, ±24.99%	46	68.7%	82.1%
Shrank 25%+	12	17.9%	
Total	67		

Growth and shrinkage *both* low: most journals fairly steady.

Subject

Subject	Journals	Articles	Art/Jrn
Law	7	694	99.1
Medicine	18	682	37.9
Education	10	349	34.9
Mathematics	2	298	149.0
Computer Science	2	254	127.0
Library Science	3	159	53.0
History	4	70	17.5
Engineering	2	67	33.5
Zoology	1	65	65.0
Language & Literature	5	63	12.6
Sociology	5	61	12.2
Political Science	3	57	19.0
Economics	1	55	55.0
Media & Communications	4	46	11.5
Anthropology	3	39	13.0
Earth Sciences	3	38	12.7
Religion	2	37	18.5
Philosophy	2	20	10.0
Ecology	2	12	6.0
Psychology	1	11	11.0
Biology	1	0	0.0

Austria

	Journals	Articles	Art%	Rel%	Art/J
All	40	930			23.3
H&SS	34	690	74%	42%	20.3
STEM	6	240	26%	12%	40.0

No biomed, strong on H&SS. 65% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	37	36	38	35	36	35
Articles	930	956	985	957	961	894
Art/Jrn	25.1	26.6	25.9	27.3	26.7	25.5
Change	-2.7%	-2.9%	2.9%	-0.4%	7.5%	

Shrinking very slowly for three of four years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	46	46.0	4.9%
Med.: 60-149	5	284	56.8	30.5%
Small: 20-59	19	492	25.9	52.9%
Smallest: 0-19	12	108	9.0	11.6%

No largest (and the one large has shrunk a lot).

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	26	591	22.7	63.5%
Soc/Gov	11	339	30.8	36.5%

More society-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	5	14.7%	
Even, $\pm 24.99\%$	22	64.7%	79.4%
Shrank 25%+	7	20.6%	
Total	34		

Less growth *and* less shrinkage than usual. Mostly steady.

Subject

Subject	Journals	Articles	Art/Jrn
Mathematics	2	113	56.5
Media & Communications	4	99	24.8
History	4	76	19.0
Language & Literature	4	74	18.5
Education	2	72	36.0
Computer Science	1	68	68.0
Sociology	5	67	13.4
Philosophy	3	64	21.3
Religion	3	64	21.3
Law	1	47	47.0
Political Science	4	47	11.8
Arts & Architecture	2	40	20.0
Library Science	1	31	31.0
Earth Sciences	1	24	24.0
Ecology	1	23	23.0
Other Sciences	1	12	12.0
Anthropology	1	9	9.0

Bangladesh

	Journals	Articles	Art%	Rel%	Art/J
All	13	582			44.8
Biomed	9	469	81%	226%	52.1
STEM	4	113	19%	-16%	28.3

No H&SS, predominantly biomed. 62% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	10	10	12	11	11	11
Articles	582	633	407	455	504	498
Art/Jrn	58.2	63.3	33.9	41.4	45.8	45.3
Change	-8.1%	55.5%	-10.5%	-9.7%	1.2%	

Some shrinkage after an extremely strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	283	141.5	48.6%
Med.: 60-149	3	165	55	28.4%
Small: 20-59	4	120	30	20.6%
Smallest: 0-19	1	14	14	2.4%

No large; almost half of the articles are in two large journals.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	3	30.0%	
Even, $\pm 24.99\%$	4	40.0%	70.0%
Shrank 25%+	3	30.0%	
Total	10		

More growth and shrinkage than typical—but that's just three journals.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	9	469	52.1
Other Sciences	1	53	53.0
Engineering	1	25	25.0
Agriculture	1	21	21.0
Zoology	1	14	14.0

That medicine would dominate is obvious from other figures.

Belarus

Key Facts

	Journals	Articles	Art%	Rel%	Art/J
All	21	864			41.1
H&SS	4	89	10%	-80%	22.3
Biomed	2	170	20%	-20%	85.0
STEM	15	605	70%	204%	40.3

Mostly STEM, very little H&SS. 99% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	21	21	20	19	19	19
Articles	864	864	973	1,006	995	954
Art/Jrn	41.1	41.1	48.7	52.9	52.4	50.2
Change	0.0%	-11.2%	-3.3%	1.1%	4.3%	

Absolutely unchanged in 2022 after two years of decline.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	9	551	61.2	63.8%
Small: 20-59	11	311	28.3	36.0%
Smallest: 0-19	1	2	2.0	0.2%

No large or largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	20	827	41.35	95.7%
Soc/Gov	1	37	37	4.3%

Nearly all university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	4	19.0%	
Even, ±24.99%	13	61.9%	81.0%
Shrank 25%+	4	19.0%	
Total	21		

Shrinkage is on the low side.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	2	170	85.0
Technology	4	170	42.5
Engineering	3	141	47.0
Mathematics	1	109	109.0

Computer Science	3	81	27.0
Other Sciences	2	41	20.5
Earth Sciences	1	37	37.0
Miscellany	1	37	37.0
Chemistry ⁹	1	26	26.0
Economics	1	25	25.0
Anthropology	1	14	14.0
History	1	13	13.0

Belgium

	Journals	Articles	Art%	Rel%	Art/J
All	49	839			17.1
H&SS	26	415	49%	-5%	16.0
Biomed	2	38	5%	-82%	19.0
STEM	21	386	46%	100%	18.4

Very weak on biomed, very strong on STEM. 97% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	42	42	44	43	42	43
Articles	839	1,079	1,067	938	1,046	1,077
Art/Jrn	20.0	25.7	24.3	21.8	24.9	25.0
Change	-22.2%	1.1%	13.8%	-10.3%	-2.9%	

Down quite a bit in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	7	282	40.3	33.6%
Small: 20-59	26	472	18.2	56.3%
Smallest: 0-19	9	85	9.4	10.1%

Mostly small. (This table excludes journals with no 2022 articles.)

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	22	421	19.1	50.2%
Soc/Gov	20	418	20.9	49.8%

Essentially half society or government based, which is unusual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	8	19.5%	
Even, \pm 24.99%	15	36.6%	56.1%
Shrank 25%+	18	43.9%	
Total	41		

Shrinkage is very high, even excluding journals with no 2022 articles.

Subject

Subject	Journals	Articles	Art/Jrn
Language & Literature	9	154	17.1
Computer Science	8	151	18.9
Religion	1	110	110.0
Agriculture	4	82	20.5
Earth Sciences	4	79	19.8
Anthropology	4	61	15.3
Technology	4	57	14.3
Sociology	3	39	13.0
Media & Communications	3	38	12.7
Medicine	2	38	19.0
Zoology	1	17	17.0
Law	1	5	5.0
Education	2	4	2.0
Miscellany	1	4	4.0
Economics	1	0	0.0
Political Science	1	0	0.0

Bosnia and Herzegovina

	Journals	Articles	Art%	Rel%	Art/J
All	34	872			25.6
H&SS	19	546	63%	20%	28.7
Biomed	6	159	18%	-26%	26.5
STEM	9	167	19%	-17%	18.6

On the strong side for H&SS. 91% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	33	34	31	29	27	22
Articles	872	854	664	612	585	484
Art/Jrn	26.4	25.1	21.4	21.1	21.7	22.0
Change	2.1%	28.6%	8.5%	4.6%	20.9%	

Growth every year (albeit slow in 2022).

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	4	323	80.8	37.0%
Small: 20-59	20	472	23.6	54.1%
Smallest: 0-19	9	77	8.6	8.8%

Mostly small, no large or largest.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	4	12.1%	
Even, $\pm 24.99\%$	23	69.7%	81.8%
Shrank 25%+	6	18.2%	
Total	33		

Growth is on the low side.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	5	145	29.0
Sociology	1	118	118.0
Language & Literature	3	105	35.0
Miscellany	2	100	50.0
Economics	3	78	26.0
Other Sciences	1	61	61.0
Ecology	3	46	15.3
History	3	42	14.0
Anthropology	2	34	17.0
Zoology	1	32	32.0
Engineering	3	23	7.7
Philosophy	1	22	22.0
Library Science	1	16	16.0
Biology	1	14	14.0
Political Science	1	14	14.0
Law	1	10	10.0
Arts & Architecture	1	7	7.0
Earth Sciences	1	5	5.0

Brazil

	Journals	Articles	Art%	Rel%	Art/J
All	1,433	56,010			39.1
H&SS	1,053	39,671	71%	36%	37.7
Biomed	153	8,938	16%	-35%	58.4
STEM	227	7,401	13%	-43%	32.6

Brazil is the leader in diamond OA, with by far the most journals and the most articles, even though at 87% it's not the most *purely* diamond. Strong on H&SS, relatively light in biomed and STEM.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	1,308	1,366	1,391	1,372	1,353	1,315
Articles	56,010	64,061	64,654	56,096	56,603	53,483
Art/Jrn	42.8	46.9	46.5	40.9	41.8	40.7
Change	-12.6%	-0.9%	15.3%	-0.9%	5.8%	

Slowdown in 2022 returns to 2019 levels.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	2,358	2,358.0	4.2%
Large: 150-599	62	8,750	141.1	15.6%
Med.: 60-149	455	24,389	53.6	43.5%
Small: 20-59	740	19,983	27.0	35.7%
Smallest: 0-19	50	530	10.6	0.9%

The one largest journal is *quite* large, but 80% of articles are in medium or smaller journals.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	218	16.8%	
Even, $\pm 24.99\%$	640	49.2%	65.9%
Shrank 25%+	443	34.1%	
Total	1,301		

A little less growth and a lot more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Education	182	8,925	49.0
Medicine	145	8,501	58.6
Sociology	78	4,939	63.3
Language & Literature	129	4,386	34.0
Anthropology	98	3,471	35.4
Economics	92	2,704	29.4
Law	87	2,520	29.0

Earth Sciences	62	2,097	33.8
Miscellany	46	1,976	43.0
History	58	1,857	32.0
Philosophy	46	1,699	36.9
Media & Communications	52	1,648	31.7
Arts & Architecture	52	1,629	31.3
Political Science	52	1,533	29.5
Agriculture	36	1,257	34.9
Ecology	45	1,186	26.4
Psychology	37	1,147	31.0
Other Sciences	18	743	41.3
Mathematics	15	685	45.7
Library Science	24	673	28.0
Engineering	17	606	35.6
Religion	20	564	28.2
Biology	8	437	54.6
Zoology	14	327	23.4
Technology	7	196	28.0
Physics	2	110	55.0
Computer Science	8	109	13.6
Chemistry	3	85	28.3

Bulgaria

	Journals	Articles	Art%	Rel%	Art/J
All	46	1,518			33.0
H&SS	24	479	32%	-40%	20.0
Biomed	6	497	33%	32%	82.8
STEM	16	542	36%	55%	33.9

Rich in STEM, rich in biomed, lean in H&SS. 37% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	44	46	43	37	32	30
Articles	1,518	1,835	1,460	1,264	937	923
Art/Jrn	34.5	39.9	34.0	34.2	29.3	30.8
Change	-17.3%	25.7%	15.5%	34.9%	1.5%	

Down 2022 after three strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	270	135.0	17.8%
Med.: 60-149	7	477	68.1	31.4%
Small: 20-59	27	673	24.9	44.3%
Smallest: 0-19	8	98	12.3	6.5%

No largest and the large aren't all currently large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	37	1,264	34.16216	83.3%
Soc/Gov	7	254	36.28571	16.7%

Universities even more dominant than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	7	15.9%	
Even, $\pm 24.99\%$	26	59.1%	75.0%
Shrank 25%+	11	25.0%	
Total	44		

Less growth and more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Biology	3	254	84.7
Medicine	3	243	81.0
Zoology	3	141	47.0

Earth Sciences	3	132	44.0
Anthropology	5	128	25.6
Economics	7	107	15.3
Agriculture	2	104	52.0
Language & Literature	4	86	21.5
Other Sciences	3	85	28.3
Philosophy	3	47	15.7
Education	2	32	16.0
Mathematics	1	32	32.0
Library Science	1	31	31.0
Psychology	1	29	29.0
Arts & Architecture	1	19	19.0
Ecology	1	15	15.0
Computer Science	1	14	14.0
Technology	1	10	10.0
Physics	1	9	9.0

Canada

	Journals	Articles	Art%	Rel%	Art/J
All	168	4,812			28.6
H&SS	127	3,342	69%	33%	26.3
Biomed	26	890	18%	-25%	34.2
STEM	15	580	12%	-48%	38.7

Two-thirds H&SS, very light on STEM. 50% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	154	158	160	156	152	144
Articles	4,812	5,387	4,469	3,717	3,618	3,475
Art/Jrn	31.2	34.1	27.9	23.8	23.8	24.1
Change	-10.7%	20.5%	20.2%	2.7%	4.1%	

Down after two strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	5	498	99.6	10.3%
Med.: 60-149	28	1,690	60.4	35.1%
Small: 20-59	89	2,314	26.0	48.1%
Smallest: 0-19	32	310	9.7	6.4%

No largest and the large aren't all currently large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	110	2,969	27.0	61.7%
Soc/Gov	36	1,417	39.4	29.4%
Other/Unknown	8	426	53.3	8.9%

More society/government than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	44	29.5%	
Even, ±24.99%	70	47.0%	76.5%
Shrank 25%+	35	23.5%	
Total	149		

More growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	25	874	35.0
Education	29	641	22.1
Political Science	11	519	47.2
Philosophy	13	421	32.4
Anthropology	14	338	24.1
Language & Literature	10	258	25.8
Economics	7	226	32.3
Computer Science	3	216	72.0
Sociology	10	214	21.4
History	7	159	22.7

Library Science	5	139	27.8
Media & Communications	5	138	27.6
Earth Sciences	2	113	56.5
Other Sciences	4	97	24.3
Miscellany	6	68	11.3
Law	3	66	22.0
Arts & Architecture	2	62	31.0
Ecology	2	56	28.0
Religion	2	53	26.5
Chemistry	1	43	43.0
Psychology	3	40	13.3
Technology	1	39	39.0
Biology	1	16	16.0
Mathematics	1	15	15.0
Agriculture	1	1	1.0

Chile

	Journals	Articles	Art%	Rel%	Art/J
All	140	3,532			25.2
H&SS	108	2,435	69%	32%	22.5
Biomed	11	480	14%	-45%	43.6
STEM	21	617	17%	-24%	29.4

Two-thirds H&SS, light in biomed. 90% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	134	138	135	132	127	117
Articles	3,532	3,785	3,740	3,550	3,279	2,968
Art/Jrn	26.4	27.4	27.7	26.9	25.8	25.4
Change	-6.7%	1.2%	5.4%	8.3%	10.5%	

Relatively flat since 2019.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	135	67.5	3.8%
Med.: 60-149	11	672	61.1	19.0%
Small: 20-59	103	2,518	24.4	71.3%
Smallest: 0-19	18	207	11.5	5.9%

No largest, and the large aren't currently large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	129	3,240	25.1	91.7%
Soc/Gov	5	292	58.4	8.3%

Almost all university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	24	17.9%	
Even, $\pm 24.99\%$	80	59.7%	77.6%
Shrank 25%+	30	22.4%	
Total	134		

Growth and shrinkage *both* just slightly below average.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	10	440	44.0
Political Science	12	271	22.6
Language & Literature	8	269	33.6
Philosophy	10	256	25.6
Anthropology	12	254	21.2
History	10	244	24.4
Law	9	214	23.8
Sociology	10	213	21.3
Arts & Architecture	8	198	24.8
Miscellany	6	157	26.2
Earth Sciences	6	132	22.0

Ecology	4	121	30.3
Zoology	2	115	57.5
Engineering	4	108	27.0
Education	8	88	11.0
Media & Communications	4	73	18.3
Psychology	2	68	34.0
Religion	4	67	16.8
Technology	2	64	32.0
Economics	5	63	12.6
Agriculture	1	45	45.0
Biology	1	40	40.0
Computer Science	1	22	22.0
Mathematics	1	10	10.0

China

	Journals	Articles	Art%	Rel%	Art/J
All	113	7,004			62.0
H&SS	11	694	10%	-81%	63.1
Biomed	21	1,299	19%	-25%	61.9
STEM	81	5,011	72%	211%	61.9

Mostly STEM, very little H&SS. 31% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	110	107	91	73	61	47
Articles	7,004	6,126	5,227	4,289	3,233	2,789
Art/Jrn	63.7	57.3	57.4	58.8	53.0	59.3
Change	14.3%	17.2%	21.9%	32.7%	15.9%	

Strong growth every year.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	14	2,431	173.6	34.7%
Med.: 60-149	33	2,407	72.9	34.4%
Small: 20-59	61	2,143	35.1	30.6%
Smallest: 0-19	2	23	11.5	0.3%

No largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	73	4,940	67.7	70.5%
Soc/Gov	20	1,393	69.7	19.9%
Other/Unknown	17	671	39.5	9.6%

More other/unknown than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	26	25.0%	
Even, $\pm 24.99\%$	67	64.4%	89.4%
Shrank 25%+	11	10.6%	
Total	104		

High growth, low shrinkage, as might be expected from overall growth.

Subject

Subject	Journals	Articles	Art/Jrn
Earth Sciences	14	1,280	91.4
Medicine	19	1,206	63.5
Engineering	13	995	76.5
Ecology	15	779	51.9
Physics	6	497	82.8
Technology	5	387	77.4
Computer Science	8	261	32.6
Chemistry	5	241	48.2
Agriculture	4	207	51.8
Other Sciences	8	193	24.1

Political Science	1	184	184.0
Anthropology	4	166	41.5
Media & Communications	1	114	114.0
Zoology	1	101	101.0
Biology	2	93	46.5
Arts & Architecture	1	78	78.0
Mathematics	2	70	35.0
Miscellany	1	56	56.0
Sociology	1	54	54.0
Economics	1	36	36.0
Language & Literature	1	6	6.0

Colombia

	Journals	Articles	Art%	Rel%	Art/J
All	422	10,373			24.6
H&SS	278	6,638	64%	22%	23.9
Biomed	50	1,722	17%	-33%	34.4
STEM	94	2,013	19%	-16%	21.4

Mostly H&SS, light on biomed. 99% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	387	407	409	413	400	398
Articles	10,373	11,268	10,968	10,665	10,237	10,494
Art/Jrn	26.8	27.7	26.8	25.8	25.6	26.4
Change	-7.9%	2.7%	2.8%	4.2%	-2.4%	

Basically flat since 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	8	882	110.3	8.5%
Med.: 60-149	31	1,466	47.3	14.1%
Small: 20-59	291	7,301	25.1	70.4%
Smallest: 0-19	57	724	12.7	7.0%

Mostly small; no largest and large currently not mostly large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	374	9,991	26.7	96.3%
Soc/Gov	13	382	29.4	3.7%

Almost all university-based.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	40	1,315	32.9
Education	41	1,155	28.2
Economics	43	781	18.2
Law	38	773	20.3
Miscellany	23	717	31.2
Engineering	28	560	20.0
Sociology	24	552	23.0
Anthropology	22	510	23.2
Political Science	19	477	25.1
Language & Literature	17	457	26.9
Agriculture	16	431	26.9
Biology	10	407	40.7
Earth Sciences	10	314	31.4
History	11	314	28.5
Arts & Architecture	12	285	23.8
Philosophy	9	262	29.1
Ecology	10	214	21.4
Other Sciences	10	201	20.1
Psychology	11	179	16.3
Media & Communications	6	121	20.2
Zoology	5	112	22.4
Mathematics	5	59	11.8
Computer Science	3	40	13.3
Religion	1	36	36.0

Technology	3	34	11.3
Chemistry	2	26	13.0
Physics	2	22	11.0
Library Science	1	19	19.0

Costa Rica

	Journals	Articles	Art%	Rel%	Art/J
All	73	2,406			33.0
H&SS	48	1,305	54%	4%	27.2
Biomed	6	544	23%	-9%	90.7
STEM	19	557	23%	1%	29.3

Typical diamond distribution (half H&SS). Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	73	73	72	71	72	72
Articles	2,406	2,478	2,105	1,882	1,870	1,739
Art/Jrn	33.0	33.9	29.2	26.5	26.0	24.2
Change	-2.9%	17.7%	11.8%	0.6%	7.5%	

Down slightly after two good years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	472	236.0	19.6%
Med.: 60-149	15	954	63.6	39.7%
Small: 20-59	34	739	21.7	30.7%
Smallest: 0-19	22	241	11.0	10.0%

No largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	71	2,365	33.3	98.3%
Soc/Gov	2	41	20.5	1.7%

Almost all university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	13	17.8%	
Even, $\pm 24.99\%$	41	56.2%	74.0%
Shrank 25%+	19	26.0%	
Total	73		

Slightly less growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	6	544	90.7
Education	6	333	55.5
Miscellany	5	179	35.8
Agriculture	6	162	27.0
Anthropology	6	158	26.3
Sociology	4	143	35.8
Ecology	3	142	47.3
Technology	1	134	134.0
Language & Literature	4	84	21.0
History	3	70	23.3
Psychology	4	65	16.3
Earth Sciences	3	58	19.3
Economics	4	48	12.0
Law	2	48	24.0
Arts & Architecture	2	47	23.5
Political Science	3	46	15.3
Engineering	3	29	9.7
Philosophy	2	29	14.5
Religion	1	28	28.0
Library Science	2	27	13.5
Zoology	2	20	10.0
Mathematics	1	12	12.0

Croatia

	Journals	Articles	Art%	Rel%	Art/J
All	134	3,448			25.7
H&SS	85	1,749	51%	-3%	20.6
Biomed	15	544	16%	-36%	36.3
STEM	34	1,155	33%	46%	34.0

Strong on STEM, weak on biomed. 98% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	108	115	128	128	126	124
Articles	3,448	3,512	3,550	3,247	3,169	3,223
Art/Jrn	31.9	30.5	27.7	25.4	25.2	26.0
Change	-1.8%	-1.1%	9.3%	2.5%	-1.7%	

Two slightly down years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	562	281.0	16.3%
Med.: 60-149	12	823	68.6	23.9%
Small: 20-59	70	1,788	25.5	51.9%
Smallest: 0-19	24	275	11.5	8.0%

No largest, mostly small.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	15	14.0%	
Even, ±24.99%	69	64.5%	78.5%
Shrank 25%+	23	21.5%	
Total	107		

Less growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	13	465	35.8
Ecology	3	425	141.7
Sociology	4	245	61.3
Agriculture	7	215	30.7
Law	7	212	30.3
Economics	15	210	14.0
Miscellany	8	176	22.0
Anthropology	10	163	16.3
Earth Sciences	8	155	19.4
Language & Literature	11	142	12.9
Political Science	5	123	24.6
Chemistry	4	115	28.8
Philosophy	5	110	22.0
Religion	2	102	51.0
Other Sciences	2	84	42.0
Biology	2	79	39.5
Engineering	5	77	15.4
Psychology	2	76	38.0
Media & Communications	4	66	16.5
History	8	60	7.5
Mathematics	3	49	16.3
Arts & Architecture	2	35	17.5
Technology	1	35	35.0
Library Science	1	20	20.0
Education	1	9	9.0
Computer Science	1	0	0.0

Cuba

	Journals	Articles	Art%	Rel%	Art/J
All	114	7,362			64.6
H&SS	39	3,572	49%	-7%	91.6
Biomed	45	3,012	41%	65%	66.9
STEM	30	778	11%	-54%	25.9

Relatively strong on biomed, weak on STEM. Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	110	113	113	106	105	103
Articles	7,362	7,332	6,506	5,328	5,281	5,023
Art/Jrn	66.9	64.9	57.6	50.3	50.3	48.8
Change	0.4%	12.7%	22.1%	0.9%	5.1%	

Basically flat after two strong years; no down years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	1,439	719.5	19.5%
Large: 150-599	7	1,313	187.6	17.8%
Med.: 60-149	47	3,161	67.3	42.9%
Small: 20-59	52	1,430	27.5	19.4%
Smallest: 0-19	2	19	9.5	0.3%

Two largest journals, mildly unusual in diamond OA.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	88	5,945	67.6	80.8%
Soc/Gov	22	1,417	64.4	19.2%

Slightly more university-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	18	16.5%	
Even, $\pm 24.99\%$	60	55.0%	71.6%
Shrank 25%+	31	28.4%	
Total	109		

A bit low on growth and a bit high on shrinkage.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	43	2,988	69.5
Education	10	1,950	195.0
Anthropology	7	381	54.4
Sociology	5	299	59.8
Agriculture	11	269	24.5
Arts & Architecture	3	233	77.7
Economics	6	227	37.8
Engineering	6	189	31.5
Media & Communications	3	177	59.0
Miscellany	1	120	120.0
Zoology	3	106	35.3
Library Science	1	74	74.0
Earth Sciences	2	62	31.0
Chemistry	2	48	24.0
Law	1	45	45.0
Computer Science	1	44	44.0
Physics	2	40	20.0
Language & Literature	1	36	36.0
Political Science	1	30	30.0
Biology	2	24	12.0
Other Sciences	2	20	10.0
Ecology	1	0	0.0

Czechia

	Journals	Articles	Art%	Rel%	Art/J
All	113	2,736			24.2
H&SS	81	2,112	77%	48%	26.1
Biomed	5	132	5%	-80%	26.4
STEM	27	492	18%	-22%	18.2

More than three-quarters H&SS, very little biomed. 83% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	97	105	104	103	104	103
Articles	2,736	2,636	2,650	2,544	2,649	2,718
Art/Jrn	28.2	25.1	25.5	24.7	25.5	26.4
Change	3.8%	-0.5%	4.2%	-4.0%	-2.5%	

Fluctuating in a narrow range.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	631	315.5	23.1%
Med.: 60-149	10	372	37.2	13.6%
Small: 20-59	65	1,531	23.6	56.0%
Smallest: 0-19	20	202	10.1	7.4%

No largest, mostly small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	93	2,628	28.3	96.1%
Soc/Gov	4	108	27.0	3.9%

Nearly all university-based.

Subject

Subject	Journals	Articles	Art/Jrn
Education	11	791	71.9
Language & Literature	17	410	24.1
Engineering	8	211	26.4

Political Science	9	183	20.3
Psychology	5	148	29.6
Anthropology	11	147	13.4
Medicine	4	118	29.5
Philosophy	9	111	12.3
Economics	9	103	11.4
Law	2	86	43.0
Mathematics	2	62	31.0
Religion	2	59	29.5
Earth Sciences	4	56	14.0
History	3	39	13.0
Zoology	1	34	34.0
Other Sciences	2	29	14.5
Technology	3	29	9.7
Agriculture	3	26	8.7
Ecology	2	26	13.0
Computer Science	2	19	9.5
Sociology	1	16	16.0
Biology	1	14	14.0
Arts & Architecture	1	10	10.0
Miscellany	1	9	9.0

Denmark

	Journals	Articles	Art%	Rel%	Art/J
All	43	1,153			26.8
H&SS	36	664	58%	10%	18.4
STEM	7	489	42%	84%	69.9

No biomed at all, relatively strong on STEM. 96% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	37	39	36	35	36	32
Articles	1,153	1,240	676	638	635	704
Art/Jrn	31.2	31.8	18.8	18.2	17.6	22.0
Change	-7.0%	83.4%	6.0%	0.5%	-9.8%	

Down somewhat after an extremely strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	379	189.5	32.9%
Med.: 60-149	3	164	54.7	14.2%
Small: 20-59	21	515	24.5	44.7%
Smallest: 0-19	11	95	8.6	8.2%

No largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	31	1,006	32.5	87.3%
Soc/Gov	6	147	24.5	12.7%

Universities even more dominant than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	4	11.1%	
Even, \pm 24.99%	16	44.4%	55.6%
Shrank 25%+	16	44.4%	
Total	36		

Less growth and much more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Earth Sciences	5	273	54.6
Ecology	1	189	189.0
Education	7	103	14.7
Anthropology	7	102	14.6
Miscellany	4	85	21.3
Language & Literature	1	77	77.0
Sociology	3	68	22.7
Law	2	59	29.5
Media & Communications	4	54	13.5
Arts & Architecture	2	46	23.0
Political Science	1	32	32.0

Religion	2	31	15.5
Engineering	1	27	27.0
Economics	1	7	7.0
Philosophy	1	0	0.0
Psychology	1	0	0.0

Ecuador

	Journals	Articles	Art%	Rel%	Art/J
All	83	3,093			37.3
H&SS	52	1,921	62%	19%	36.9
Biomed	12	730	24%	-5%	60.8
STEM	19	442	14%	-38%	23.3

Light on STEM. Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	80	82	82	80	75	66
Articles	3,093	2,938	2,263	2,103	1,774	1,623
Art/Jrn	38.7	35.8	27.6	26.3	23.7	24.6
Change	5.3%	29.8%	7.6%	18.5%	9.3%	

Growing every year.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	4	1,046	261.5	33.8%
Med.: 60-149	6	364	60.7	11.8%
Small: 20-59	63	1,595	25.3	51.6%
Smallest: 0-19	7	88	12.6	2.8%

No largest.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	21	26.3%	
Even, ±24.99%	46	57.5%	83.8%
Shrank 25%+	13	16.3%	
Total	80		

More growth and less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Economics	9	763	84.8
Medicine	11	503	45.7
Miscellany	8	305	38.1
Biology	1	227	227.0
Sociology	6	214	35.7
Other Sciences	6	189	31.5
Education	7	174	24.9
Media & Communications	4	118	29.5
Law	6	95	15.8
Arts & Architecture	4	88	22.0
Anthropology	4	77	19.3
Ecology	2	67	33.5
Agriculture	3	54	18.0
Engineering	3	42	14.0
Technology	2	38	19.0
Political Science	2	33	16.5
Psychology	1	29	29.0
Philosophy	1	25	25.0
Zoology	1	23	23.0
Chemistry	1	16	16.0
Computer Science	1	13	13.0

Egypt

	Journals	Articles	Art%	Rel%	Art/J
All	26	1,057			40.7
H&SS	3	90	9%	-84%	30.0
Biomed	14	497	47%	90%	35.5
STEM	9	470	44%	93%	52.2

Heavy on biomed and STEM, almost no H&SS. Only 22% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	24	25	23	21	19	14
Articles	1,057	886	524	500	566	423
Art/Jrn	44.0	35.4	22.8	23.8	29.8	30.2
Change	19.3%	69.1%	4.8%	-11.7%	33.8%	

Two strong years; doubled since 2020.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	10	756	75.6	71.5%
Small: 20-59	11	280	25.5	26.5%
Smallest: 0-19	3	21	7.0	2.0%

Mostly medium, none larger.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	6	25.0%	
Even, $\pm 24.99\%$	13	54.2%	79.2%
Shrank 25%+	5	20.8%	
Total	24		

More growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	12	472	39.3
Zoology	3	175	58.3
Earth Sciences	2	124	62.0
Ecology	2	91	45.5
Agriculture	1	80	80.0
Language & Literature	1	58	58.0
Anthropology	1	25	25.0
Biology	2	25	12.5
Arts & Architecture	1	7	7.0
Chemistry	1	0	0.0

Estonia

	Journals	Articles	Art%	Rel%	Art/J
All	23	529			23.0
H&SS	18	405	77%	47%	22.5
STEM	5	124	23%	2%	24.8

No biomed, three-quarters H&SS. 53% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	23	23	21	20	20	18
Articles	529	543	385	414	368	358
Art/Jrn	23.0	23.6	18.3	20.7	18.4	19.9
Change	-2.6%	41.0%	-7.0%	12.5%	2.8%	

Down slightly after a very strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	1	59	59.0	11.2%
Small: 20-59	14	373	26.6	70.5%
Smallest: 0-19	8	97	12.1	18.3%

Mostly small, no large or largest.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	3	13.0%	
Even, $\pm 24.99\%$	16	69.6%	82.6%
Shrank 25%+	4	17.4%	
Total	23		

Mostly steady: less growth *and* less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Language & Literature	6	134	22.3
Economics	1	59	59.0
Mathematics	2	59	29.5
Political Science	2	57	28.5
Education	2	50	25.0
Agriculture	2	46	23.0
Anthropology	2	38	19.0
History	2	31	15.5
Miscellany	1	24	24.0
Technology	1	19	19.0
Law	1	11	11.0
Philosophy	1	1	1.0

Ethiopia

	Journals	Articles	Art%	Rel%	Art/J
All	10	283			28.3
H&SS	2	34	12%	-77%	17.0
Biomed	2	123	43%	76%	61.5
STEM	6	126	45%	93%	21.0

Very little H&SS, strong on STEM. Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	10	10	10	7	6	7
Articles	283	286	199	209	183	224
Art/Jrn	28.3	28.6	19.9	29.9	30.5	32.0
Change	-1.0%	43.7%	-4.8%	14.2%	-18.3%	

Off slightly after a very strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	1	104	104.0	36.7%
Small: 20-59	5	119	23.8	42.0%
Smallest: 0-19	4	60	15.0	21.2%

Nothing large or largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	9	267	29.7	94.3%
Soc/Gov	1	16	16.0	5.7%

Almost entirely university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent
Grew 25%+	4	40.0%
Even, \pm 24.99%	5	50.0%
Shrank 25%+	1	10.0%
Total	10	

Much more growth, less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	2	123	61.5
Other Sciences	2	64	32.0
Ecology	1	22	22.0
Law	1	17	17.0

Political Science	1	17	17.0
Chemistry	1	16	16.0
Computer Science	1	12	12.0
Zoology	1	12	12.0

Finland

	Journals	Articles	Art%	Rel%	Art/J
All	58	1,395			24.1
H&SS	45	1,112	80%	53%	24.7
Biomed	4	111	8%	-68%	27.8
STEM	9	172	12%	-46%	19.1

Strong on H&SS, very little biomed. 82% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	54	56	56	54	51	47
Articles	1,395	1,513	1,406	1,262	1,200	1,005
Art/Jrn	25.8	27.0	25.1	23.4	23.5	21.4
Change	-7.8%	7.6%	11.4%	5.2%	19.4%	

Last two years essentially a wash, after three years of growth.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	108	108.0	7.7%
Med.: 60-149	2	136	68.0	9.7%
Small: 20-59	35	1,005	28.7	72.0%
Smallest: 0-19	16	146	9.1	10.5%

Mostly small. No largest, and the large one isn't currently large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	34	781	23.0	56.0%
Univ/Acad	20	614	30.7	44.0%

Note the order: *mostly* society/government based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	11	20.8%	
Even, ±24.99%	30	56.6%	77.4%
Shrank 25%+	12	22.6%	
Total	53		

Less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Sociology	4	174	43.5
History	5	130	26.0
Anthropology	9	120	13.3
Language & Literature	4	112	28.0
Media & Communications	4	111	27.8
Medicine	4	111	27.8
Psychology	1	108	108.0
Earth Sciences	5	83	16.6
Religion	5	81	16.2
Education	3	78	26.0
Arts & Architecture	5	75	15.0
Agriculture	2	53	26.5
Library Science	1	45	45.0
Economics	2	37	18.5
Other Sciences	1	29	29.0
Philosophy	1	26	26.0
Miscellany	1	15	15.0
Engineering	1	7	7.0

France

	Journals	Articles	Art%	Rel%	Art/J
All	263	11,227			42.7
H&SS	200	5,942	53%	1%	29.7
Biomed	7	859	8%	-69%	122.7
STEM	56	4,426	39%	71%	79.0

Heavy on STEM, light on biomed. 81% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	230	255	254	239	233	221
Articles	11,227	14,319	12,935	14,310	20,701	15,153
Art/Jrn	48.8	56.2	50.9	59.9	88.8	68.6
Change	-21.6%	10.7%	-9.6%	-30.9%	36.6%	

Another off year.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	4	3,988	997.0	35.5%
Large: 150-599	7	1,026	146.6	9.1%
Med.: 60-149	49	2,668	54.4	23.8%
Small: 20-59	131	3,151	24.1	28.1%
Smallest: 0-19	39	394	10.1	3.5%

Unusual: more than one-third of articles in largest journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	65	6,661	102.5	59.3%
Univ/Acad	165	4,566	27.7	40.7%

Another country with more society-based than university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	53	23.3%	
Even, $\pm 24.99\%$	105	46.3%	69.6%
Shrank 25%+	69	30.4%	
Total	227		

More growth *and* more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Anthropology	48	1,644	34.3
Miscellany	13	1,369	105.3
Physics	5	1,245	249.0
Language & Literature	65	1,130	17.4
Engineering	2	1,086	543.0
Biology	3	700	233.3
Computer Science	5	565	113.0
Earth Sciences	13	531	40.8
History	17	362	21.3
Agriculture	6	316	52.7
Arts & Architecture	9	303	33.7
Sociology	9	216	24.0
Media & Communications	8	214	26.8
Education	9	213	23.7
Zoology	6	186	31.0
Mathematics	9	176	19.6
Medicine	4	159	39.8
Ecology	5	154	30.8
Philosophy	6	140	23.3
Other Sciences	3	127	42.3
Law	6	115	19.2
Religion	3	108	36.0
Library Science	2	64	32.0
Political Science	2	43	21.5
Chemistry	1	30	30.0
Economics	3	21	7.0
Technology	1	10	10.0

Germany

	Journals	Articles	Art%	Rel%	Art/J
All	237	13,122			55.4
H&SS	135	3,769	29%	-45%	27.9
Biomed	22	2,231	17%	-31%	101.4
STEM	80	7,122	54%	136%	89.0

Mostly STEM, light on H&SS and biomed. 58% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	214	218	202	186	178	168
Articles	13,122	13,875	14,946	14,017	12,665	11,316
Art/Jrn	61.3	63.6	74.0	75.4	71.2	67.4
Change	-5.4%	-7.2%	6.6%	10.7%	11.9%	

Two slightly off years after three growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	5	6,230	1,246.0	47.5%
Large: 150-599	8	1,558	194.8	11.9%
Med.: 60-149	33	1,979	60.0	15.1%
Small: 20-59	121	2,889	23.9	22.0%
Smallest: 0-19	47	466	9.9	3.6%

Nearly half of all articles are in five largest journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	138	9,044	65.5	68.9%
Soc/Gov	66	3,821	57.9	29.1%
Other/Unknown	10	257	25.7	2.0%

Universities slightly less dominant than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	45	21.8%	
Even, ±24.99%	102	49.5%	71.4%
Shrank 25%+	59	28.6%	
Total	206		

Just slightly more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Physics	11	5,016	456.0
Medicine	19	2,009	105.7
Law	9	613	68.1
Mathematics	18	609	33.8
Education	16	458	28.6
Sociology	16	442	27.6
Anthropology	18	430	23.9
Ecology	6	416	69.3
Religion	7	361	51.6
Earth Sciences	16	337	21.1
Language & Literature	20	317	15.9
Biology	3	222	74.0
Chemistry	3	207	69.0
Arts & Architecture	9	199	22.1
Miscellany	3	180	60.0
Library Science	4	153	38.3
Computer Science	4	150	37.5
Economics	5	149	29.8
Psychology	5	142	28.4
Media & Communications	9	136	15.1
Agriculture	5	121	24.2
Zoology	5	121	24.2
Political Science	6	115	19.2
Engineering	7	80	11.4

Other Sciences	4	65	16.3
History	5	51	10.2
Philosophy	3	23	7.7
Technology	1	0	0.0

Greece

	Journals	Articles	Art%	Rel%	Art/J
All	31	1,358			43.8
H&SS	21	715	53%	1%	34.0
Biomed	7	404	30%	20%	57.7
STEM	3	239	18%	-24%	79.7

Mostly H&SS, light on STEM, relatively rich in biomed. 66% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	29	30	28	29	29	28
Articles	1,358	1,496	1,051	972	900	958
Art/Jrn	46.8	49.9	37.5	33.5	31.0	34.2
Change	-9.2%	42.3%	8.1%	8.0%	-6.1%	

Down year after three years of growth.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	3	678	226.0	49.9%
Med.: 60-149	5	336	67.2	24.7%
Small: 20-59	18	307	17.1	22.6%
Smallest: 0-19	3	37	12.3	2.7%

No largest, but the three large journals have nearly half the articles.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	16	752	47.0	55.4%
Soc/Gov	13	606	46.6	44.6%

Atypically high in society-based journals.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	4	13.8%	
Even, ±24.99%	17	58.6%	72.4%
Shrank 25%+	8	27.6%	
Total	29		

Less growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	7	404	57.7
Education	5	380	76.0
Engineering	1	150	150.0
Arts & Architecture	2	98	49.0
Earth Sciences	2	89	44.5
History	4	75	18.8
Language & Literature	2	52	26.0
Psychology	1	36	36.0
Philosophy	1	20	20.0
Economics	2	17	8.5
Anthropology	2	14	7.0
Sociology	1	14	14.0
Media & Communications	1	9	9.0

Hong Kong

	Journals	Articles	Art%	Rel%	Art/J
All	12	495			41.3
H&SS	2	99	20%	-62%	49.5
Biomed	7	356	72%	191%	50.9
STEM	3	40	8%	-65%	13.3

Predominantly biomed. Only 28% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	10	12	12	10	10	9
Articles	495	530	470	335	349	355
Art/Jrn	49.5	44.2	39.2	33.5	34.9	39.4
Change	-6.6%	12.8%	40.3%	-4.0%	-1.7%	

Down after two strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	161	161.0	32.5%
Med.: 60-149	3	221	73.7	44.6%
Small: 20-59	4	90	22.5	18.2%
Smallest: 0-19	2	23	11.5	4.6%

No largest. The one large journal has roughly one-third of articles.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	7	336	48.0	67.9%
Soc/Gov	3	159	53.0	32.1%

Slightly lower than usual university-based percentage.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	1	10.0%	
Even, $\pm 24.99\%$	8	80.0%	90.0%
Shrank 25%+	1	10.0%	
Total	10		

Lower than usual growth *and* shrinkage.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	5	343	68.6
Education	2	99	49.5
Zoology	1	17	17.0
Biology	2	13	6.5
Ecology	1	13	13.0
Engineering	1	10	10.0

Hungary

	Journals	Articles	Art%	Rel%	Art/J
All	59	1,468			24.9
H&SS	30	611	42%	-20%	20.4
Biomed	8	241	16%	-34%	30.1
STEM	21	616	42%	82%	29.3

Relatively heavy on STEM. 86% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	51	56	52	50	46	41
Articles	1,468	1,743	1,544	1,523	1,375	1,229
Art/Jrn	28.8	31.1	29.7	30.5	29.9	30.0
Change	-15.8%	12.9%	1.4%	10.8%	11.9%	

Down year, back below 2019 levels.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	10	550	55.0	37.5%
Small: 20-59	33	844	25.6	57.5%
Smallest: 0-19	8	74	9.3	5.0%

Mostly small. No large or largest journals.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	12	23.5%	
Even, $\pm 24.99\%$	27	52.9%	76.5%
Shrank 25%+	12	23.5%	
Total	51		

More growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	7	221	31.6
Language & Literature	8	156	19.5
Anthropology	5	152	30.4
Engineering	3	107	35.7
Chemistry	3	106	35.3
Other Sciences	1	96	96.0
Education	3	82	27.3
Agriculture	3	81	27.0
Mathematics	2	70	35.0
Sociology	2	56	28.0
Economics	3	50	16.7
Political Science	2	41	20.5
Technology	1	37	37.0
Zoology	2	37	18.5
Earth Sciences	2	34	17.0
Library Science	1	28	28.0
Ecology	3	24	8.0
Physics	1	24	24.0
Biology	1	20	20.0
Arts & Architecture	2	17	8.5
Media & Communications	1	12	12.0
Miscellany	2	12	6.0
Law	1	5	5.0

India

	Journals	Articles	Art%	Rel%	Art/J
All	231	13,882			60.1
H&SS	22	547	4%	-92%	24.9
Biomed	192	12,685	91%	269%	66.1
STEM	17	650	5%	-80%	38.2

Almost all medicine. 59% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	214	222	223	217	213	194
Articles	13,882	13,275	13,597	11,340	10,979	10,766
Art/Jrn	64.9	59.8	61.0	52.3	51.5	55.5
Change	4.6%	-2.4%	19.9%	3.3%	2.0%	

Strong 2020, modest changes since.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	1,787	893.5	12.9%
Large: 150-599	24	3,681	153.4	26.5%
Med.: 60-149	75	5,003	66.7	36.0%
Small: 20-59	110	3,364	30.6	24.2%
Smallest: 0-19	3	47	15.7	0.3%

Most articles are in medium and large journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	120	9,207	76.7	66.3%
Univ/Acad	92	4,447	48.3	32.0%
Other/Unknown	2	228	114.0	1.6%

Two-thirds society-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	51	23.8%	
Even, $\pm 24.99\%$	123	57.5%	81.3%
Shrank 25%+	40	18.7%	
Total	214		

More growth and less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	188	12,388	65.9
Agriculture	5	300	60.0
Biology	4	297	74.3
Language & Literature	7	264	37.7
Chemistry	1	116	116.0
Economics	4	113	28.3
Computer Science	2	77	38.5
Technology	3	77	25.7
Law	2	46	23.0
Miscellany	1	42	42.0
Anthropology	2	37	18.5
Ecology	2	34	17.0
Engineering	2	19	9.5
Religion	1	18	18.0
Physics	1	17	17.0
Education	2	12	6.0
Other Sciences	1	10	10.0
Sociology	2	10	5.0
Library Science	1	5	5.0

Indonesia

	Journals	Articles	Art%	Rel%	Art/J
All	1,064	22,449			21.1
H&SS	712	14,043	63%	20%	19.7
Biomed	91	3,013	13%	-46%	33.1
STEM	261	5,393	24%	4%	20.7

Light on biomed, heavy on H&SS. 44% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	997	1,032	1,010	943	883	819
Articles	22,449	23,275	19,509	18,101	16,651	15,861
Art/Jrn	22.5	22.6	19.3	19.2	18.9	19.4
Change	-3.5%	19.3%	7.8%	8.7%	5.0%	

Small decline after four growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	3	1,376	458.7	6.1%
Large: 150-599	6	1,041	173.5	4.6%
Med.: 60-149	60	3,448	57.5	15.4%
Small: 20-59	534	11,690	21.9	52.1%
Smallest: 0-19	394	4,894	12.4	21.8%

Mostly small journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	957	21,179	22.1	94.3%
Soc/Gov	40	1,270	31.8	5.7%

Even more predominantly university-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	192	19.4%	
Even, $\pm 24.99\%$	614	62.1%	81.5%
Shrank 25%+	183	18.5%	
Total	989		

Less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Education	168	4,129	24.6
Medicine	77	2,814	36.5
Economics	133	2,756	20.7
Religion	105	1,726	16.4
Law	71	1,265	17.8
Computer Science	53	1,192	22.5
Agriculture	37	1,130	30.5
Language & Literature	61	1,013	16.6
Engineering	47	917	19.5
Anthropology	38	756	19.9
Sociology	33	568	17.2
Technology	22	469	21.3
Mathematics	28	461	16.5
Political Science	25	437	17.5
Arts & Architecture	17	378	22.2
Zoology	11	334	30.4
Psychology	18	325	18.1
Ecology	17	242	14.2
Miscellany	12	231	19.3
Other Sciences	14	228	16.3
Media & Communications	15	227	15.1
Biology	14	199	14.2
Chemistry	11	173	15.7
Earth Sciences	11	142	12.9

Library Science	8	141	17.6
Physics	10	105	10.5
Philosophy	5	70	14.0
History	3	21	7.0

Iran

	Journals	Articles	Art%	Rel%	Art/J
All	461	18,089			39.2
H&SS	98	4,476	25%	-53%	45.7
Biomed	214	8,755	48%	96%	40.9
STEM	149	4,858	27%	17%	32.6

Light on H&SS, heavy on biomed. 46% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	431	450	448	427	425	407
Articles	18,089	17,949	15,532	14,417	13,691	13,375
Art/Jrn	42.0	39.9	34.7	33.8	32.2	32.9
Change	0.8%	15.6%	7.7%	5.3%	2.4%	

Growing every year, albeit barely in 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,793	1,793.0	9.9%
Large: 150-599	11	2,354	214.0	13.0%
Med.: 60-149	72	4,392	61.0	24.3%
Small: 20-59	328	9,312	28.4	51.5%
Smallest: 0-19	19	238	12.5	1.3%

Mostly small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	389	16,712	43.0	92.4%
Soc/Gov	42	1,377	32.8	7.6%

Even more predominantly university/academia-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	70	16.3%	
Even, $\pm 24.99\%$	265	61.6%	77.9%
Shrank 25%+	95	22.1%	
Total	430		

Less growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	205	8,402	41.0
Library Science	3	1,891	630.3
Ecology	24	768	32.0
Engineering	20	745	37.3
Computer Science	15	730	48.7
Economics	18	718	39.9
Mathematics	17	638	37.5
Agriculture	17	485	28.5
Chemistry	14	419	29.9
Education	17	397	23.4
Earth Sciences	16	382	23.9
Language & Literature	12	371	30.9
Biology	9	353	39.2
Zoology	10	333	33.3
Law	8	211	26.4
Anthropology	9	198	22.0
Sociology	7	190	27.1
Technology	5	172	34.4
Physics	9	132	14.7
Psychology	2	114	57.0
Political Science	4	106	26.5
Philosophy	4	84	21.0
Miscellany	3	78	26.0
Other Sciences	2	54	27.0

Religion	6	50	8.3
Arts & Architecture	3	36	12.0
History	1	32	32.0
Media & Communications	1	0	0.0

Iraq

	Journals	Articles	Art%	Rel%	Art/J
All	25	1,414			56.6
H&SS	9	463	33%	-37%	51.4
Biomed	3	164	12%	-53%	54.7
STEM	13	787	56%	142%	60.5

Mostly STEM, very lean on biomed. 21% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	24	25	22	20	17	16
Articles	1,414	1,285	777	838	688	686
Art/Jrn	58.9	51.4	35.3	41.9	40.5	42.9
Change	10.0%	65.4%	-7.3%	21.8%	0.3%	

Growth four years out of five, doubled since 2018.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	441	220.5	31.2%
Med.: 60-149	6	502	83.7	35.5%
Small: 20-59	15	465	31.0	32.9%
Smallest: 0-19	1	6	6.0	0.4%

No largest, fairly even distribution among large, medium and small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	22	1,336	60.7	94.5%
Soc/Gov	2	78	39.0	5.5%

Almost entirely university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	9	37.5%	
Even, $\pm 24.99\%$	10	41.7%	79.2%
Shrank 25%+	5	20.8%	
Total	24		

Much more growth (and a bit less shrinkage) than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Other Sciences	5	515	103.0
History	1	138	138.0
Engineering	5	123	24.6
Education	1	108	108.0
Arts & Architecture	2	97	48.5
Biology	1	88	88.0
Technology	1	87	87.0
Medicine	2	76	38.0
Miscellany	2	43	21.5
Language & Literature	1	39	39.0
Computer Science	1	38	38.0
Media & Communications	1	32	32.0
Chemistry	1	24	24.0
Sociology	1	6	6.0

Ireland

	Journals	Articles	Art%	Rel%	Art/J
All	14	231			16.5
H&SS	9	192	83%	59%	21.3
Biomed	3	22	10%	-61%	7.3
STEM	2	17	7%	-68%	8.5

Predominantly H&SS. 35% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	9	12	13	12	12	11
Articles	231	266	313	337	247	191
Art/Jrn	25.7	22.2	24.1	28.1	20.6	17.4
Change	-13.2%	-15.0%	-7.1%	36.4%	29.3%	

Three off years in a row.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	3	133	44.3	57.6%
Small: 20-59	3	74	24.7	32.0%
Smallest: 0-19	3	24	8.0	10.4%

Mostly medium, no large or largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	6	214	35.7	92.6%
Soc/Gov	3	17	5.7	7.4%

Almost all university-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	1	11.1%	
Even, \pm 24.99%	6	66.7%	77.8%
Shrank 25%+	2	22.2%	
Total	9		

Less growth but also less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Religion	1	78	78.0
Media & Communications	2	75	37.5
Education	2	23	11.5
Medicine	2	22	11.0

Earth Sciences	1	17	17.0
Language & Literature	1	10	10.0
Sociology	1	6	6.0
Arts & Architecture	1	0	0.0
Biology	1	0	0.0
Ecology	1	0	0.0
Economics	1	0	0.0

Italy

	Journals	Articles	Art%	Rel%	Art/J
All	421	12,528			29.8
H&SS	331	9,375	75%	43%	28.3
Biomed	38	1,126	9%	-64%	29.6
STEM	52	2,027	16%	-30%	39.0

Three-quarters H&SS, very light on biomed. 74% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	384	401	397	376	355	336
Articles	12,528	12,930	12,831	11,514	10,714	10,234
Art/Jrn	32.6	32.2	32.3	30.6	30.2	30.5
Change	-3.1%	0.8%	11.4%	7.5%	4.7%	

A little down after four growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,000	1,000.0	8.0%
Large: 150-599	13	2,183	167.9	17.4%
Med.: 60-149	61	3,081	50.5	24.6%
Small: 20-59	229	5,450	23.8	43.5%
Smallest: 0-19	80	814	10.2	6.5%

Half small and smallest.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	88	23.2%	
Even, $\pm 24.99\%$	190	50.0%	73.2%
Shrank 25%+	102	26.8%	
Total	380		

A little more growth than usual,

Subject

Subject	Journals	Articles	Art/Jrn
Arts & Architecture	49	2,100	42.9
Language & Literature	63	1,617	25.7
Medicine	33	1,017	30.8
Anthropology	36	975	27.1
Philosophy	28	808	28.9
Agriculture	13	793	61.0
Education	17	722	42.5
History	33	715	21.7
Law	22	573	26.0
Sociology	20	477	23.9
Media & Communications	16	451	28.2
Political Science	17	348	20.5
Engineering	1	267	267.0
Earth Sciences	9	239	26.6
Zoology	9	225	25.0
Library Science	5	201	40.2
Economics	9	190	21.1
Ecology	6	169	28.2
Mathematics	8	136	17.0
Computer Science	4	111	27.8
Biology	5	109	21.8
Miscellany	7	99	14.1
Psychology	6	74	12.3
Other Sciences	1	61	61.0
Chemistry	1	26	26.0
Religion	3	25	8.3

Japan

	Journals	Articles	Art%	Rel%	Art/J
All	27	511			18.9
H&SS	16	151	30%	-43%	9.4
Biomed	6	262	51%	107%	43.7
STEM	5	98	19%	-17%	19.6

Mostly biomed, lean on H&SS. Only 13% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	21	22	24	25	25	25
Articles	511	648	662	636	522	545
Art/Jrn	24.3	29.5	27.6	25.4	20.9	21.8
Change	-21.1%	-2.1%	4.1%	21.8%	-4.2%	

Two down years, back to 2017 levels.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	2	169	84.5	33.1%
Small: 20-59	12	293	24.4	57.3%
Smallest: 0-19	7	49	7.0	9.6%

Mostly small, with nothing larger than medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	10	346	34.6	67.7%
Univ/Acad	11	165	15.0	32.3%

Note the row order: two-thirds society-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	3	15.0%	
Even, $\pm 24.99\%$	9	45.0%	60.0%
Shrank 25%+	8	40.0%	
Total	20		

Less growth and *much* more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	6	262	43.7
Physics	2	62	31.0
Education	2	54	27.0
Ecology	2	34	17.0
Anthropology	2	25	12.5
Political Science	1	13	13.0
Arts & Architecture	1	11	11.0
Psychology	1	11	11.0
Language & Literature	3	10	3.3
Miscellany	1	10	10.0
Religion	1	9	9.0
Library Science	1	8	8.0
Earth Sciences	1	2	2.0
Media & Communications	1	0	0.0
Philosophy	1	0	0.0
Sociology	1	0	0.0

Lithuania

	Journals	Articles	Art%	Rel%	Art/J
All	76	1,586			20.9
H&SS	56	1,042	66%	26%	18.6
Biomed	5	121	8%	-69%	24.2
STEM	15	423	27%	16%	28.2

Two-thirds H&SS, very little biomed. 61% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	67	68	67	71	66	64
Articles	1,586	1,795	1,608	1,635	1,542	1,568
Art/Jrn	23.7	26.4	24.0	23.0	23.4	24.5
Change	-11.6%	11.6%	-1.7%	6.0%	-1.7%	

Last two years almost a wash; very little change since 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	83	83.0	5.2%
Med.: 60-149	6	280	46.7	17.7%
Small: 20-59	45	1,097	24.4	69.2%
Smallest: 0-19	15	126	8.4	7.9%

More than two-thirds small, no largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	66	1,583	24.0	99.8%
Soc/Gov	1	3	3.0	0.2%

Essentially all university/academia.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	14	20.9%	
Even, $\pm 24.99\%$	32	47.8%	68.7%
Shrank 25%+	21	31.3%	
Total	67		

More shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Language & Literature	15	251	16.7
Mathematics	5	153	30.6
Medicine	5	121	24.2

Miscellany	2	121	60.5
Education	4	104	26.0
Law	4	95	23.8
Political Science	4	95	23.8
Economics	5	72	14.4
Other Sciences	2	72	36.0
Philosophy	2	64	32.0
Earth Sciences	2	56	28.0
Agriculture	1	48	48.0
Sociology	4	47	11.8
Technology	1	45	45.0
Anthropology	2	44	22.0
Ecology	2	36	18.0
History	2	36	18.0
Library Science	2	33	16.5
Media & Communications	4	30	7.5
Arts & Architecture	2	18	9.0
Psychology	3	16	5.3
Religion	1	16	16.0
Engineering	2	13	6.5

Malaysia

	Journals	Articles	Art%	Rel%	Art/J
All	77	2,140			27.8
H&SS	31	739	35%	-34%	23.8
Biomed	10	300	14%	-43%	30.0
STEM	36	1,101	51%	124%	30.6

Mostly STEM, lean elsewhere. 64% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	75	76	72	70	71	68
Articles	2,140	2,051	1,983	1,588	1,586	1,299
Art/Jrn	28.5	27.0	27.5	22.7	22.3	19.1
Change	4.3%	3.4%	24.9%	0.1%	22.1%	

Growth every year.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	406	203.0	19.0%
Med.: 60-149	9	511	56.8	23.9%
Small: 20-59	39	957	24.5	44.7%
Smallest: 0-19	25	266	10.6	12.4%

No largest, most smaller than medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	52	1,712	32.9	80.0%
Other/Unknown	17	251	14.8	11.7%
Soc/Gov	6	177	29.5	8.3%

Unusual: other/unknown larger than society/government.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	24	32.4%	
Even, $\pm 24.99\%$	30	40.5%	73.0%
Shrank 25%+	20	27.0%	
Total	74		

More growth *and* more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Engineering	11	373	33.9
Computer Science	6	363	60.5
Medicine	8	253	31.6
Anthropology	6	174	29.0
Ecology	6	129	21.5
Miscellany	5	112	22.4
Education	2	105	52.5
Economics	7	99	14.1
Technology	3	86	28.7
Law	3	72	24.0
Language & Literature	2	70	35.0
Earth Sciences	4	66	16.5
Biology	2	47	23.5
Zoology	2	43	21.5
Religion	1	40	40.0
Philosophy	1	26	26.0
Arts & Architecture	1	21	21.0
Mathematics	2	20	10.0
Political Science	2	20	10.0
Agriculture	1	14	14.0
Other Sciences	1	7	7.0
Sociology	1	0	0.0

Mexico

	Journals	Articles	Art%	Rel%	Art/J
All	182	7,514			41.3
H&SS	136	5,953	79%	52%	43.8
Biomed	24	783	10%	-58%	32.6
STEM	22	778	10%	-55%	35.4

Predominantly H&SS. 93% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	175	180	176	174	169	155
Articles	7,514	6,548	5,084	4,903	4,637	4,481
Art/Jrn	42.9	36.4	28.9	28.2	27.4	28.9
Change	14.8%	28.8%	3.7%	5.7%	3.5%	

Growth every year.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,284	1,284.0	17.1%
Large: 150-599	6	1,472	245.3	19.6%
Med.: 60-149	24	1,492	62.2	19.9%
Small: 20-59	116	2,915	25.1	38.8%
Smallest: 0-19	28	351	12.5	4.7%

Mostly medium and larger.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	162	6,415	39.6	85.4%
Soc/Gov	13	1,099	84.5	14.6%

More predominantly university-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	43	24.6%	
Even, $\pm 24.99\%$	99	56.6%	81.1%
Shrank 25%+	33	18.9%	
Total	175		

More growth and less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Economics	21	1,870	89.0
Education	14	959	68.5
Medicine	22	728	33.1
Political Science	13	632	48.6
Anthropology	14	369	26.4
History	10	358	35.8
Miscellany	11	355	32.3
Sociology	13	320	24.6
Language & Literature	11	261	23.7
Ecology	4	239	59.8
Philosophy	5	215	43.0
Law	7	155	22.1
Media & Communications	6	149	24.8
Other Sciences	3	140	46.7
Earth Sciences	5	136	27.2
Arts & Architecture	6	128	21.3
Psychology	3	119	39.7
Zoology	3	106	35.3
Agriculture	2	79	39.5
Library Science	2	63	31.5
Biology	2	55	27.5
Chemistry	2	31	15.5
Technology	1	26	26.0
Engineering	1	13	13.0
Computer Science	1	8	8.0

Moldova

	Journals	Articles	Art%	Rel%	Art/J
All	31	2,250			72.6
H&SS	21	1,998	89%	70%	95.1
Biomed	2	28	1%	-95%	14.0
STEM	8	224	10%	-57%	28.0

Predominantly H&SS, almost no biomed. 85% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	26	28	30	25	26	23
Articles	2,250	2,842	1,235	990	1,071	905
Art/Jrn	86.5	101.5	41.2	39.6	41.2	39.3
Change	-20.8%	130.1%	24.7%	-7.6%	18.3%	

Down 2022 after two very strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,182	1,182.0	52.5%
Med.: 60-149	12	734	61.2	32.6%
Small: 20-59	12	326	27.2	14.5%
Smallest: 0-19	1	8	8.0	0.4%

Distinctive: No large, but most articles are in one largest journal.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	8	1,548	193.5	68.8%
Univ/Acad	18	702	39.0	31.2%

Another unusual case: society-based account for more than two-thirds.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	2	8.0%	
Even, $\pm 24.99\%$	14	56.0%	64.0%
Shrank 25%+	9	36.0%	
Total	25		

Much less growth and more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Sociology	3	1,308	436.0
Miscellany	2	195	97.5
Psychology	1	145	145.0

Language & Literature	3	110	36.7
Anthropology	4	102	25.5
Engineering	3	77	25.7
Library Science	1	53	53.0
Other Sciences	1	45	45.0
Law	3	35	11.7
Physics	1	35	35.0
Economics	3	32	10.7
Zoology	1	31	31.0
Medicine	2	28	14.0
Computer Science	1	24	24.0
History	1	18	18.0
Chemistry	1	12	12.0

Morocco

	Journals	Articles	Art%	Rel%	Art/J
All	26	604			23.2
H&SS	11	310	51%	-2%	28.2
Biomed	4	55	9%	-63%	13.8
STEM	11	239	40%	72%	21.7

Strong on STEM and light on biomed. Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	24	24	25	25	23	21
Articles	604	672	626	626	604	557
Art/Jrn	25.2	28.0	25.0	25.0	26.3	26.5
Change	-10.1%	7.3%	0.0%	3.6%	8.4%	

Fluctuating in a very narrow range since 2018.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	4	231	57.8	38.2%
Small: 20-59	14	342	24.4	56.6%
Smallest: 0-19	6	31	5.2	5.1%

Mostly small and nothing larger than medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	21	560	26.7	92.7%
Soc/Gov	2	24	12.0	4.0%
Other/Unknown	1	20	20.0	3.3%

Even more predominantly university-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	4	17.4%	
Even, $\pm 24.99\%$	10	43.5%	60.9%
Shrank 25%+	9	39.1%	
Total	23		

A bit less growth and a lot more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Economics	8	261	32.6
Other Sciences	1	79	79.0
Earth Sciences	2	77	38.5
Ecology	5	60	12.0
Medicine	3	54	18.0
Anthropology	1	20	20.0
Arts & Architecture	1	20	20.0
Chemistry	2	18	9.0
Library Science	1	9	9.0
Agriculture	1	5	5.0
Biology	1	1	1.0

Nepal

Journals	Articles	Art%	Rel%	Art/J	
All	24	1,021			42.5
H&SS	3	49	5%	-91%	16.3
Biomed	15	885	87%	250%	59.0
STEM	6	87	9%	-63%	14.5

Predominantly biomed, very little H&SS. 66% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	23	23	22	22	22	21
Articles	1,021	1,124	1,095	780	740	562
Art/Jrn	44.4	48.9	49.8	35.5	33.6	26.8
Change	-9.2%	2.6%	40.4%	5.4%	31.7%	

Down a little after four growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	456	228.0	44.7%
Med.: 60-149	4	177	44.3	17.3%
Small: 20-59	12	321	26.8	31.4%
Smallest: 0-19	5	67	13.4	6.6%

No largest, but the two large journals publish nearly half of articles.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	2	8.7%	
Even, ±24.99%	14	60.9%	69.6%
Shrank 25%+	7	30.4%	
Total	23		

Low growth and high shrinkage.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	15	885	59.0
Agriculture	4	49	12.3
Other Sciences	1	25	25.0
Political Science	1	18	18.0
Education	1	17	17.0
Anthropology	1	14	14.0
Ecology	1	13	13.0

Netherlands

	Journals	Articles	Art%	Rel%	Art/J
All	138	9,686			70.2
H&SS	74	2,350	24%	-54%	31.8
Biomed	23	2,828	29%	18%	123.0
STEM	41	4,508	47%	102%	110.0

Very strong on STEM and light on H&SS. Only 24% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	126	126	122	118	113	107
Articles	9,686	7,639	8,080	7,249	7,786	8,119
Art/Jrn	76.9	60.6	66.2	61.4	68.9	75.9
Change	26.8%	-5.5%	11.5%	-6.9%	-4.1%	

Strong 2022.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	4	2,549	637.3	26.3%
Large: 150-599	14	2,823	201.6	29.1%
Med.: 60-149	33	2,429	73.6	25.1%
Small: 20-59	57	1,702	29.9	17.6%
Smallest: 0-19	18	183	10.2	1.9%

Tends toward large and largest journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	73	5,435	74.5	56.1%
Soc/Gov	35	2,874	82.1	29.7%
Other/Unknown	18	1,377	76.5	14.2%

Relatively light on university-based, heavy in other categories.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	26	21.5%	
Even, $\pm 24.99\%$	68	56.2%	77.7%
Shrank 25%+	27	22.3%	
Total	121		

Slightly less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	23	2,828	123.0
Physics	7	2,443	349.0
Engineering	4	406	101.5
Earth Sciences	8	401	50.1
Ecology	6	389	64.8
Arts & Architecture	6	380	63.3
Law	7	358	51.1
Anthropology	10	261	26.1
Language & Literature	8	225	28.1
Agriculture	4	208	52.0
Computer Science	3	183	61.0
Media & Communications	5	183	36.6
Economics	4	164	41.0
Mathematics	3	164	54.7
History	5	160	32.0
Sociology	6	155	25.8
Miscellany	5	140	28.0

Religion	5	129	25.8
Other Sciences	2	104	52.0
Library Science	4	94	23.5
Technology	2	84	42.0
Zoology	1	70	70.0
Chemistry	1	56	56.0
Philosophy	2	47	23.5
Education	3	28	9.3
Psychology	2	15	7.5
Political Science	2	11	5.5

New Zealand

	Journals	Articles	Art%	Rel%	Art/J
All	18	358			19.9
H&SS	13	302	84%	61%	23.2
Biomed	1	15	4%	-83%	15.0
STEM	4	41	11%	-50%	10.3

Heavy on H&SS, almost no biomed. 99% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	15	16	17	17	17	17
Articles	358	432	454	436	360	391
Art/Jrn	23.9	27.0	26.7	25.6	21.2	23.0
Change	-17.1%	-4.8%	4.1%	21.1%	-7.9%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	2	41	20.5	11.5%
Small: 20-59	11	290	26.4	81.0%
Smallest: 0-19	2	27	13.5	7.5%

Predominantly small with nothing larger than medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	9	191	21.2	53.4%
Soc/Gov	6	167	27.8	46.6%

More heavily society-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	6	40.0%	
Even, $\pm 24.99\%$	6	40.0%	80.0%
Shrank 25%+	3	20.0%	
Total	15		

Much more growth and slightly less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Education	3	113	37.7
Political Science	1	44	44.0
Sociology	2	34	17.0
Economics	2	27	13.5
Media & Communications	1	25	25.0
Philosophy	2	24	12.0
Agriculture	1	20	20.0
Arts & Architecture	1	18	18.0
Anthropology	1	17	17.0
Mathematics	1	16	16.0
Biology	1	15	15.0
Earth Sciences	1	5	5.0
Computer Science	1	0	0.0

Norway

	Journals	Articles	Art%	Rel%	Art/J
All	110	2,947			26.8
H&SS	91	1,818	62%	18%	20.0
Biomed	11	1,068	36%	47%	97.1
STEM	8	61	2%	-91%	7.6

Almost no biomed. 83% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	100	103	102	101	97	92
Articles	2,947	3,203	2,863	2,688	2,707	2,663
Art/Jrn	29.5	31.1	28.1	26.6	27.9	28.9
Change	-8.0%	11.9%	6.5%	-0.7%	1.7%	

Down in 2022, but still above 2020.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	837	837.0	28.4%
Med.: 60-149	8	436	54.5	14.8%
Small: 20-59	64	1,419	22.2	48.2%
Smallest: 0-19	27	255	9.4	8.7%

No large but one largest journal.

Funding Categories

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	71	2,247	31.6	76.2%
Soc/Gov	23	547	23.8	18.6%
Other/Unknown	6	153	25.5	5.2%

More other/unknown than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	29	29.6%	
Even, ±24.99%	42	42.9%	72.4%
Shrank 25%+	27	27.6%	
Total	98		

More growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	11	1,068	97.1
Education	17	457	26.9
Language & Literature	15	321	21.4
Religion	5	197	39.4
Anthropology	14	189	13.5
Sociology	10	184	18.4
History	5	109	21.8
Arts & Architecture	7	108	15.4
Political Science	3	65	21.7
Media & Communications	2	55	27.5
Miscellany	4	46	11.5
Library Science	3	32	10.7
Law	4	30	7.5
Philosophy	1	23	23.0
Zoology	5	23	4.6
Earth Sciences	1	14	14.0
Computer Science	1	12	12.0
Engineering	1	12	12.0
Economics	1	2	2.0

Pakistan

	Journals	Articles	Art%	Rel%	Art/J
All	71	1,826			25.7
H&SS	33	694	38%	-27%	21.0
Biomed	19	778	43%	72%	40.9
STEM	19	354	19%	-16%	18.6

Relatively rich in biomed. 41% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	63	67	61	58	47	39
Articles	1,826	1,867	2,055	1,393	1,076	863
Art/Jrn	29.0	27.9	33.7	24.0	22.9	22.1
Change	-2.2%	-9.1%	47.5%	29.5%	24.7%	

Two slightly-down years after three strong growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	67	67.0	3.7%
Med.: 60-149	12	760	63.3	41.6%
Small: 20-59	37	861	23.3	47.2%
Smallest: 0-19	13	138	10.6	7.6%

No largest, and the large is currently barely medium.

Funding Categories

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	55	1,518	27.6	83.1%
Soc/Gov	8	308	38.5	16.9%

Universities predominate even more than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	16	692	43.3
Economics	15	296	19.7
Religion	7	191	27.3

Language & Literature	4	134	33.5
Mathematics	5	118	23.6
Engineering	4	104	26.0
Biology	3	86	28.7
Agriculture	1	48	48.0
Miscellany	1	30	30.0
Other Sciences	2	25	12.5
Education	3	23	7.7
Media & Communications	2	20	10.0
Ecology	2	18	9.0
Earth Sciences	2	17	8.5
Computer Science	2	15	7.5
Technology	1	9	9.0
Psychology	1	0	0.0

Paraguay

	Journals	Articles	Art%	Rel%	Art/J
All	27	828			30.7
H&SS	11	469	57%	8%	42.6
Biomed	11	285	34%	39%	25.9
STEM	5	74	9%	-61%	14.8

Light on STEM, relatively heavy on biomed. Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	25	27	26	26	22	19
Articles	828	861	598	499	452	409
Art/Jrn	33.1	31.9	23.0	19.2	20.5	21.5
Change	-3.8%	44.0%	19.8%	10.4%	10.5%	

Slightly down after four good years. Doubled since 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	312	312.0	37.7%
Med.: 60-149	1	18	18.0	2.2%
Small: 20-59	18	438	24.3	52.9%
Smallest: 0-19	5	60	12.0	7.2%

Mostly small, no largest.

Funding Categories

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	19	682	35.9	82.4%
Soc/Gov	6	146	24.3	17.6%

Universities/academia even more predominant than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	5	20.0%	
Even, $\pm 24.99\%$	12	48.0%	68.0%
Shrank 25%+	8	32.0%	
Total	25		

More shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Law	3	344	114.7
Medicine	11	285	25.9
Sociology	4	60	15.0
Other Sciences	3	53	17.7
Education	2	46	23.0
Language & Literature	1	19	19.0
Agriculture	1	16	16.0
Zoology	1	5	5.0
Political Science	1	0	0.0

Peru

	Journals	Articles	Art%	Rel%	Art/J
All	113	3,068			27.2
H&SS	70	1,611	53%	0%	23.0
Biomed	19	769	25%	1%	40.5
STEM	24	688	22%	-3%	28.7

Unusually “normal” distribution: just over half H&SS, one-quarter biomed. 97% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	107	110	110	105	96	88
Articles	3,068	3,370	3,291	2,782	2,426	2,365
Art/Jrn	28.7	30.6	29.9	26.5	25.3	26.9
Change	-9.0%	2.4%	18.3%	14.7%	2.6%	

Down after four growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	259	129.5	8.4%
Med.: 60-149	20	929	46.5	30.3%
Small: 20-59	71	1,697	23.9	55.3%
Smallest: 0-19	14	183	13.1	6.0%

No largest, mostly small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	97	2,659	27.4	86.7%
Soc/Gov	10	409	40.9	13.3%

More university-dominated than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	24	22.6%	
Even, $\pm 24.99\%$	50	47.2%	69.8%
Shrank 25%+	32	30.2%	
Total	106		

Slightly more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	17	711	41.8
Language & Literature	8	311	38.9
Miscellany	8	211	26.4
Psychology	6	192	32.0
Zoology	3	190	63.3
Education	7	161	23.0
Law	8	153	19.1
Economics	9	145	16.1
Anthropology	8	132	16.5
Engineering	4	115	28.8
Ecology	5	105	21.0
Media & Communications	3	84	28.0
Earth Sciences	2	83	41.5
Arts & Architecture	4	80	20.0
Sociology	5	78	15.6
Agriculture	4	75	18.8
Biology	2	58	29.0
Philosophy	2	53	26.5
Mathematics	2	47	23.5
Other Sciences	1	24	24.0
Computer Science	1	19	19.0
Physics	1	19	19.0
Chemistry	1	11	11.0
Political Science	2	11	5.5

Philippines

	Journals	Articles	Art%	Rel%	Art/J
All	20	419			21.0
H&SS	12	259	62%	18%	21.6
Biomed	6	132	32%	27%	22.0
STEM	2	28	7%	-71%	14.0

Very little STEM, relatively strong on biomed. 89% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	20	20	18	17	14	13
Articles	419	502	323	255	242	195
Art/Jrn	21.0	25.1	17.9	15.0	17.3	15.0
Change	-16.5%	55.4%	26.7%	5.4%	24.1%	

Down after four growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	2	80	40.0	19.1%
Small: 20-59	9	264	29.3	63.0%
Smallest: 0-19	9	75	8.3	17.9%

Nothing larger than medium.

Subject

Subject	Journals	Articles	Art/Jrn
Miscellany	4	140	35.0
Medicine	6	132	22.0
Sociology	2	58	29.0
Computer Science	1	24	24.0
Education	2	23	11.5
Philosophy	1	17	17.0
Language & Literature	2	16	8.0
Economics	1	5	5.0
Other Sciences	1	4	4.0

Poland

	Journals	Articles	Art%	Rel%	Art/J
All	634	16,642			26.2
H&SS	431	10,067	60%	16%	23.4
Biomed	67	3,207	19%	-22%	47.9
STEM	136	3,368	20%	-12%	24.8

Light on biomed, a little light on STEM. 67% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	575	595	597	586	564	532
Articles	16,642	18,294	18,451	18,443	18,354	18,685
Art/Jrn	28.9	30.7	30.9	31.5	32.5	35.1
Change	-9.0%	-0.9%	0.0%	0.5%	-1.8%	

Down more than the four previous generally-flat years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	745	745.0	4.5%
Large: 150-599	7	985	140.7	5.9%
Med.: 60-149	104	5,119	49.2	30.8%
Small: 20-59	370	8,856	23.9	53.2%
Smallest: 0-19	93	937	10.1	5.6%

Half small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	490	13,799	28.2	82.9%
Soc/Gov	61	2,379	39.0	14.3%
Other/Unknown	24	464	19.3	2.8%

Slightly heavier on universities and academia than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	88	15.6%	
Even, ±24.99%	320	56.7%	72.3%
Shrank 25%+	156	27.7%	
Total	564		

Less growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	62	3,121	50.3
Language & Literature	90	2,017	22.4
Political Science	43	1,361	31.7
Law	36	1,006	27.9
Anthropology	48	1,003	20.9
Economics	52	973	18.7
Education	35	915	26.1
Computer Science	14	634	45.3
Earth Sciences	25	515	20.6
Sociology	27	506	18.7
Mathematics	18	484	26.9
Religion	19	454	23.9
History	19	431	22.7
Philosophy	22	406	18.5
Engineering	17	379	22.3
Ecology	17	354	20.8
Technology	9	321	35.7
Agriculture	15	291	19.4
Arts & Architecture	8	283	35.4
Media & Communications	7	197	28.1
Miscellany	9	194	21.6
Library Science	11	171	15.5
Other Sciences	4	157	39.3
Psychology	5	150	30.0

Zoology	11	148	13.5
Biology	5	86	17.2
Physics	4	74	18.5
Chemistry	2	11	5.5

Portugal

	Journals	Articles	Art%	Rel%	Art/J
All	144	4,615			32.0
H&SS	108	2,922	63%	21%	27.1
Biomed	26	1,271	28%	11%	48.9
STEM	10	422	9%	-60%	42.2

Very light on STEM, heavy on H&SS. 87% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	136	136	139	135	130	124
Articles	4,615	4,509	3,776	3,345	3,379	3,065
Art/Jrn	33.9	33.2	27.2	24.8	26.0	24.7
Change	2.4%	19.4%	12.9%	-1.0%	10.2%	

Growing for the last three years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	3	746	248.7	16.2%
Med.: 60-149	27	1,509	55.9	32.7%
Small: 20-59	88	2,177	24.7	47.2%
Smallest: 0-19	18	183	10.2	4.0%

No largest, half small and smallest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	113	3,964	35.1	85.9%
Soc/Gov	23	651	28.3	14.1%

Universities dominate a little more than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	30	23.1%	
Even, ±24.99%	72	55.4%	78.5%
Shrank 25%+	28	21.5%	
Total	130		

More growth and less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	26	1,271	48.9
Media & Communications	15	462	30.8
Anthropology	19	363	19.1
Language & Literature	10	325	32.5
History	9	315	35.0
Education	11	265	24.1
Miscellany	9	235	26.1
Sociology	6	179	29.8
Computer Science	4	170	42.5
Philosophy	7	164	23.4
Arts & Architecture	7	162	23.1
Political Science	4	159	39.8
Earth Sciences	3	150	50.0
Library Science	3	109	36.3
Engineering	1	68	68.0
Law	1	66	66.0
Economics	2	50	25.0
Religion	2	41	20.5
Mathematics	1	32	32.0
Psychology	3	27	9.0
Technology	1	2	2.0

Qatar

	Journals	Articles	Art%	Rel%	Art/J
All	11	380			34.5
H&SS	8	217	57%	9%	27.1
Biomed	3	163	43%	73%	54.3

No STEM. Relatively strong on biomed. 88% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	11	11	11	10	7	7
Articles	380	573	362	317	172	192
Art/Jrn	34.5	52.1	32.9	31.7	24.6	27.4
Change	-33.7%	58.3%	14.2%	84.3%	-10.4%	

Down a lot after three good years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	49	49.0	12.9%
Med.: 60-149	3	167	55.7	43.9%
Small: 20-59	5	150	30.0	39.5%
Smallest: 0-19	2	14	7.0	3.7%

No largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	10	361	36.1	95.0%
Soc/Gov	1	19	19.0	5.0%

Almost exclusively universities.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	1	9.1%	
Even, $\pm 24.99\%$	2	18.2%	27.3%
Shrank 25%+	8	72.7%	
Total	11		

Most journals shrinking—much more volatile than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	3	163	54.3
Law	2	51	25.5
Religion	1	44	44.0
Miscellany	1	36	36.0
Language & Literature	1	29	29.0
Education	1	26	26.0
Economics	1	19	19.0
Library Science	1	12	12.0

Romania

	Journals	Articles	Art%	Rel%	Art/J
All	287	11,545			40.2
H&SS	181	7,774	67%	29%	43.0
Biomed	22	632	5%	-78%	28.7
STEM	84	3,139	27%	18%	37.4

Very light on biomed. 59% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	250	274	266	260	257	245
Articles	11,545	12,164	7,814	7,503	6,797	6,960
Art/Jrn	46.2	44.4	29.4	28.9	26.4	28.4
Change	-5.1%	55.7%	4.1%	10.4%	-2.3%	

Down slightly after three good years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	3	2,907	969.0	25.2%
Large: 150-599	9	2,452	272.4	21.2%
Med.: 60-149	48	2,642	55.0	22.9%
Small: 20-59	122	2,847	23.3	24.7%
Smallest: 0-19	68	697	10.3	6.0%

Roughly similar article counts for all sizes except smallest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	213	9,632	45.2	83.4%
Soc/Gov	32	1,423	44.5	12.3%
Other/Unknown	5	490	98.0	4.2%

Slightly more university and other/unknown than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	46	18.5%	
Even, $\pm 24.99\%$	126	50.8%	69.4%
Shrank 25%+	76	30.6%	
Total	248		

More shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Law	9	1,640	182.2
Engineering	16	1,595	99.7
Economics	39	1,536	39.4
Language & Literature	23	1,317	57.3
Political Science	22	940	42.7
Anthropology	22	878	39.9
Medicine	19	523	27.5
Agriculture	13	422	32.5
Earth Sciences	19	364	19.2

Philosophy	12	300	25.0
Miscellany	7	257	36.7
Sociology	14	249	17.8
Arts & Architecture	5	229	45.8
Ecology	8	188	23.5
Education	10	183	18.3
Mathematics	7	138	19.7
Computer Science	8	130	16.3
Biology	3	109	36.3
Technology	3	104	34.7
Other Sciences	4	94	23.5
History	6	66	11.0
Media & Communications	6	66	11.0
Psychology	2	62	31.0
Physics	1	42	42.0
Library Science	3	41	13.7
Zoology	4	36	9.0
Chemistry	1	26	26.0
Religion	1	10	10.0

Russia

	Journals	Articles	Art%	Rel%	Art/J
All	521	32,291			62.0
H&SS	239	13,605	42%	-19%	56.9
Biomed	123	10,787	33%	35%	87.7
STEM	159	7,899	24%	6%	49.7

Relatively light on H&SS and heavy on biomed. 90% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	490	496	486	466	434	402
Articles	32,291	31,849	25,968	25,864	26,205	23,662
Art/Jrn	65.9	64.2	53.4	55.5	60.4	58.9
Change	1.4%	22.6%	0.4%	-1.3%	10.7%	

Growing the last three years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	4	5,479	1,369.8	17.0%
Large: 150-599	38	6,355	167.2	19.7%
Med.: 60-149	198	12,535	63.3	38.8%
Small: 20-59	235	7,779	33.1	24.1%
Smallest: 0-19	15	143	9.5	0.4%

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	84	17.5%	
Even, $\pm 24.99\%$	306	63.6%	81.1%
Shrank 25%+	91	18.9%	
Total	481		

Less growth but also less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	113	10,420	92.2
Economics	40	2,113	52.8
Technology	15	1,780	118.7
Law	26	1,756	67.5
Sociology	21	1,575	75.0
Political Science	23	1,546	67.2
Language & Literature	29	1,358	46.8
Engineering	25	1,322	52.9
Anthropology	21	1,274	60.7
Education	18	1,034	57.4
Computer Science	18	976	54.2
Earth Sciences	26	892	34.3
History	15	786	52.4
Agriculture	16	756	47.3

Psychology	14	688	49.1
Other Sciences	13	514	39.5
Mathematics	13	482	37.1
Miscellany	8	470	58.8
Ecology	13	437	33.6
Physics	11	397	36.1
Biology	10	367	36.7
Philosophy	8	353	44.1
Religion	8	263	32.9
Media & Communications	5	192	38.4
Arts & Architecture	2	188	94.0
Chemistry	4	186	46.5
Zoology	5	157	31.4
Library Science	1	9	9.0

Saudi Arabia

	Journals	Articles	Art%	Rel%	Art/J
All	13	599			46.1
H&SS	5	97	16%	-69%	19.4
Biomed	6	434	72%	193%	72.3
STEM	2	68	11%	-51%	34.0

Nearly three-quarters biomed; very light in H&SS and STEM. 39% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	12	11	10	10	10	10
Articles	599	644	516	539	521	473
Art/Jrn	49.9	58.5	51.6	53.9	52.1	47.3
Change	-7.0%	24.8%	-4.3%	3.5%	10.1%	

Down after a strong 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	108	108.0	18.0%
Med.: 60-149	5	336	67.2	56.1%
Small: 20-59	4	127	31.8	21.2%
Smallest: 0-19	2	28	14.0	4.7%

No largest. Mostly medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	11	565	51.4	94.3%
Soc/Gov	1	34	34.0	5.7%

Almost entirely university-based.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	6	434	72.3
Education	2	68	34.0
Agriculture	1	52	52.0
Law	2	29	14.5
Engineering	1	16	16.0
Religion	1	0	0.0

Serbia

	Journals	Articles	Art%	Rel%	Art/J
All	199	5,053			25.4
H&SS	106	2,607	52%	-1%	24.6
Biomed	22	571	11%	-54%	26.0
STEM	71	1,875	37%	61%	26.4

Relatively heavy in STEM, light in biomed. 74% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	180	191	191	188	188	183
Articles	5,053	5,631	4,969	5,047	4,823	4,972
Art/Jrn	28.1	29.5	26.0	26.8	25.7	27.2
Change	-10.3%	13.3%	-1.5%	4.6%	-3.0%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	313	156.5	6.2%
Med.: 60-149	25	1,705	68.2	33.7%
Small: 20-59	109	2,572	23.6	50.9%
Smallest: 0-19	44	463	10.5	9.2%

No largest, mostly small.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	30	16.8%	
Even, \pm 24.99%	108	60.3%	77.1%
Shrank 25%+	41	22.9%	
Total	179		

Less growth and a little less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Engineering	18	598	33.2
Economics	20	577	28.9
Medicine	19	412	21.7
Anthropology	18	398	22.1
Law	10	290	29.0
Media & Communications	1	260	260.0
Other Sciences	8	218	27.3
Chemistry	5	211	42.2
Agriculture	13	208	16.0
Technology	5	206	41.2

Language & Literature	9	204	22.7
Education	11	172	15.6
Arts & Architecture	10	166	16.6
Biology	3	159	53.0
Computer Science	4	145	36.3
History	6	129	21.5
Sociology	6	120	20.0
Psychology	5	114	22.8
Earth Sciences	7	94	13.4
Ecology	5	90	18.0
Philosophy	2	62	31.0
Zoology	4	58	14.5
Political Science	3	57	19.0
Mathematics	2	47	23.5
Religion	2	36	18.0
Miscellany	2	19	9.5
Library Science	1	3	3.0

Singapore

	Journals	Articles	Art%	Rel%	Art/J
All	23	649			28.2
H&SS	9	147	23%	-57%	16.3
Biomed	5	238	37%	48%	47.6
STEM	9	264	41%	77%	29.3

Light on H&SS, heavy on STEM and biomed. 30% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	22	19	18	17	13	8
Articles	649	367	364	355	285	172
Art/Jrn	29.5	19.3	20.2	20.9	21.9	21.5
Change	76.8%	0.8%	2.5%	24.6%	65.7%	

Growing every year, huge growth in 2022, tripled since 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	1	141	141.0	21.7%
Small: 20-59	14	423	30.2	65.2%
Smallest: 0-19	7	85	12.1	13.1%

Nearly two-thirds small, no large or largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	17	433	25.5	66.7%
Soc/Gov	4	198	49.5	30.5%
Other/Unknown	1	18	18.0	2.8%

A bit less university and more society than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Growth	5	26.3%	
Even	14	73.7%	100.0%
Total	19		

No shrinkage at all.

Subject

Subject	Journals	Articles	Art/Jrn
Computer Science	6	196	32.7
Medicine	4	193	48.3
Physics	1	47	47.0
Biology	1	45	45.0
Arts & Architecture	1	37	37.0
Education	1	28	28.0
Mathematics	2	21	10.5
Political Science	2	21	10.5
Sociology	1	18	18.0
Anthropology	1	13	13.0
Economics	1	13	13.0
Library Science	1	9	9.0
Language & Literature	1	8	8.0

Slovakia

	Journals	Articles	Art%	Rel%	Art/J
All	45	1,292			28.7
H&SS	26	699	54%	4%	26.9
Biomed	2	70	5%	-78%	35.0
STEM	17	523	40%	76%	30.8

Heavy on STEM, light on biomed, still mostly H&SS. 90% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	42	44	42	37	36	35
Articles	1,292	1,494	1,222	983	994	1,009
Art/Jrn	30.8	34.0	29.1	26.6	27.6	28.8
Change	-13.5%	22.3%	24.3%	-1.1%	-1.5%	

Down after two good years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	8	528	66.0	40.9%
Small: 20-59	26	682	26.2	52.8%
Smallest: 0-19	8	82	10.3	6.3%

Mostly small, no large or largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	41	1,278	31.2	98.9%
Soc/Gov	1	14	14.0	1.1%

Almost entirely university/academia.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	6	14.3%	
Even, $\pm 24.99\%$	23	54.8%	69.0%
Shrank 25%+	13	31.0%	
Total	42		

Less growth and more shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Earth Sciences	7	221	31.6
Sociology	3	145	48.3
Engineering	2	132	66.0
Philosophy	4	112	28.0
Agriculture	2	81	40.5
Law	2	79	39.5
Political Science	5	66	13.2
History	3	64	21.3
Zoology	2	60	30.0
Language & Literature	1	57	57.0
Medicine	1	41	41.0
Arts & Architecture	2	38	19.0
Miscellany	1	32	32.0
Biology	1	29	29.0
Psychology	1	29	29.0
Anthropology	1	28	28.0
Economics	1	27	27.0
Library Science	1	22	22.0
Technology	1	22	22.0
Mathematics	1	7	7.0
Computer Science	1	0	0.0
Ecology	1	0	0.0
Media & Communications	1	0	0.0

Slovenia

	Journals	Articles	Art%	Rel%	Art/J
All	63	1,997			31.7
H&SS	48	1,444	72%	38%	30.1
Biomed	6	210	11%	-57%	35.0
STEM	9	343	17%	-25%	38.1

Almost three-quarters H&SS, light on biomed. 92% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	61	63	62	60	58	55
Articles	1,997	2,012	1,661	1,560	1,540	1,335
Art/Jrn	32.7	31.9	26.8	26.0	26.6	24.3
Change	-0.7%	21.1%	6.5%	1.3%	15.4%	

Just a bit down after four years of growth.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	368	368.0	18.4%
Med.: 60-149	8	474	59.3	23.7%
Small: 20-59	42	1,043	24.8	52.2%
Smallest: 0-19	10	112	11.2	5.6%

No largest, mostly small.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	13	21.3%	
Even, $\pm 24.99\%$	36	59.0%	80.3%
Shrank 25%+	12	19.7%	
Total	61		

Less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Anthropology	5	500	100.0
Language & Literature	14	310	22.1
Medicine	5	161	32.2
Earth Sciences	4	118	29.5
Arts & Architecture	7	113	16.1
Agriculture	3	111	37.0
Economics	4	104	26.0

Chemistry	1	92	92.0
Education	2	86	43.0
History	2	77	38.5
Miscellany	2	69	34.5
Philosophy	2	65	32.5
Biology	1	49	49.0
Sociology	5	47	9.4
Law	1	28	28.0
Religion	2	26	13.0
Technology	1	22	22.0
Psychology	1	19	19.0
Political Science	1	0	0.0

South Africa

	Journals	Articles	Art%	Rel%	Art/J
All	39	1,177			30.2
H&SS	20	453	38%	-26%	22.7
Biomed	11	393	33%	35%	35.7
STEM	8	331	28%	22%	41.4

Relatively light on H&SS, heavier elsewhere. Only 20% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	38	39	36	36	34	32
Articles	1,177	1,153	1,314	1,119	1,076	1,078
Art/Jrn	31.0	29.6	36.5	31.1	31.6	33.7
Change	2.1%	-12.3%	17.4%	4.0%	-0.2%	

Up slightly.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	96	48.0	8.2%
Med.: 60-149	9	443	49.2	37.6%
Small: 20-59	20	550	27.5	46.7%
Smallest: 0-19	7	88	12.6	7.5%

No largest, and the large ones aren't currently large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	17	566	33.3	48.1%
Univ/Acad	20	559	28.0	47.5%
Other/Unknown	1	52	52.0	4.4%

More society/government than university/academia.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	14	36.8%	
Even, $\pm 24.99\%$	17	44.7%	81.6%
Shrank 25%+	7	18.4%	
Total	38		

Much more growth and somewhat less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	11	393	35.7
Education	4	170	42.5
Earth Sciences	2	124	62.0
Other Sciences	2	122	61.0
Miscellany	2	59	29.5
Political Science	2	53	26.5
Ecology	2	52	26.0
Arts & Architecture	2	47	23.5
Economics	3	38	12.7
Law	2	33	16.5
Religion	2	32	16.0
Chemistry	1	18	18.0
Engineering	1	15	15.0
Anthropology	1	14	14.0
History	1	7	7.0
Sociology	1	0	0.0

South Korea

	Journals	Articles	Art%	Rel%	Art/J
All	93	5,383			57.9
H&SS	20	522	10%	-81%	26.1
Biomed	64	3,962	74%	198%	61.9
STEM	9	899	17%	-27%	99.9

Nearly three-quarters biomed, very little H&SS. 54% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	85	87	88	86	84	82
Articles	5,383	4,390	4,528	3,955	3,935	3,807
Art/Jrn	63.3	50.5	51.5	46.0	46.8	46.4
Change	22.6%	-3.0%	14.5%	0.5%	3.4%	

Good year after a slightly-down 2021.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,102	1,102.0	20.5%
Large: 150-599	4	703	175.8	13.1%
Med.: 60-149	27	1,976	73.2	36.7%
Small: 20-59	45	1,507	33.5	28.0%
Smallest: 0-19	8	95	11.9	1.8%

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	63	4,604	73.1	85.5%
Univ/Acad	22	779	35.4	14.5%

Predominantly society-based.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	11	13.1%	
Even, $\pm 24.99\%$	66	78.6%	91.7%
Shrank 25%+	7	8.3%	
Total	84		

Less growth and *much* less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	63	3,913	62.1
Physics	1	481	481.0
Zoology	2	139	69.5
Engineering	1	92	92.0
Education	4	91	22.8
Agriculture	1	75	75.0
Technology	1	74	74.0
Economics	4	67	16.8
Language & Literature	2	65	32.5
Anthropology	2	63	31.5
Law	1	63	63.0
Library Science	2	62	31.0
Biology	1	49	49.0
Political Science	2	39	19.5
Media & Communications	1	37	37.0
Ecology	2	26	13.0
History	1	18	18.0
Philosophy	1	17	17.0
Earth Sciences	1	12	12.0

Spain

	Journals	Articles	Art%	Rel%	Art/J
All	901	28,731			31.9
H&SS	741	22,855	80%	52%	30.8
Biomed	85	3,756	13%	-47%	44.2
STEM	75	2,120	7%	-68%	28.3

Predominantly H&SS, lowest on STEM. 89% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	847	858	849	837	808	778
Articles	28,731	31,974	26,439	22,716	21,983	21,724
Art/Jrn	33.9	37.3	31.1	27.1	27.2	27.9
Change	-10.1%	20.9%	16.4%	3.3%	1.2%	

Down after four growth years, but still well above 2020 levels.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	2,440	1,220.0	8.5%
Large: 150-599	24	2,993	124.7	10.4%
Med.: 60-149	148	8,387	56.7	29.2%
Small: 20-59	510	13,057	25.6	45.4%
Smallest: 0-19	163	1,854	11.4	6.5%

Subject

Subject	Journals	Articles	Art/Jrn
Education	88	4,990	56.7
Medicine	80	3,640	45.5
Language & Literature	138	3,531	25.6
History	70	2,301	32.9
Anthropology	97	2,189	22.6
Arts & Architecture	75	1,865	24.9
Law	45	1,597	35.5
Sociology	56	1,404	25.1

Media & Communications	44	1,125	25.6
Political Science	32	1,118	34.9
Philosophy	30	928	30.9
Earth Sciences	19	532	28.0
Psychology	12	483	40.3
Economics	22	451	20.5
Miscellany	13	387	29.8
Religion	11	375	34.1
Agriculture	9	333	37.0
Ecology	10	274	27.4
Zoology	8	244	30.5
Computer Science	7	223	31.9
Engineering	8	137	17.1
Technology	3	120	40.0
Biology	5	116	23.2
Library Science	8	111	13.9
Mathematics	6	104	17.3
Chemistry	2	93	46.5
Other Sciences	3	60	20.0

Sri Lanka

	Journals	Articles	Art%	Rel%	Art/J
All	20	689			34.5
H&SS	4	45	7%	-87%	11.3
Biomed	11	455	66%	167%	41.4
STEM	5	189	27%	19%	37.8

Two-thirds biomed, very little H&SS. 99% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	19	19	19	19	19	19
Articles	689	791	621	482	509	553
Art/Jrn	36.3	41.6	32.7	25.4	26.8	29.1
Change	-12.9%	27.4%	28.8%	-5.3%	-8.0%	

Down after two strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	132	132.0	19.2%
Med.: 60-149	6	293	48.8	42.5%
Small: 20-59	8	215	26.9	31.2%
Smallest: 0-19	4	49	12.3	7.1%

No largest (and the large journal isn't currently large).

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	4	21.1%	
Even, ±24.99%	9	47.4%	68.4%
Shrank 25%+	6	31.6%	
Total	19		

More shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	10	450	45.0
Other Sciences	2	106	53.0
Agriculture	2	73	36.5
Economics	2	25	12.5
Law	1	20	20.0
Ecology	1	10	10.0
Biology	1	5	5.0
Sociology	1	0	0.0

Sweden

	Journals	Articles	Art%	Rel%	Art/J
All	35	983			28.1
H&SS	31	666	68%	30%	21.5
Biomed	2	284	29%	17%	142.0
STEM	2	33	3%	-85%	16.5

More than two-thirds H&SS, very little STEM. 62% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	33	34	32	33	30	29
Articles	983	878	1,146	886	824	787
Art/Jrn	29.8	25.8	35.8	26.8	27.5	27.1
Change	12.0%	-23.4%	29.3%	7.5%	4.7%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	253	253.0	25.7%
Med.: 60-149	2	98	49.0	10.0%
Small: 20-59	16	448	28.0	45.6%
Smallest: 0-19	14	184	13.1	18.7%

No largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	28	592	21.1	60.2%
Soc/Gov	5	391	78.2	39.8%

More society-based than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	14	42.4%	
Even, $\pm 24.99\%$	15	45.5%	87.9%
Shrank 25%+	4	12.1%	
Total	33		

Much more growth and somewhat less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	2	284	142.0
Education	8	125	15.6
Language & Literature	5	124	24.8
Anthropology	5	91	18.2
Political Science	3	79	26.3
Sociology	4	78	19.5
Library Science	1	56	56.0
Arts & Architecture	2	46	23.0
Religion	1	40	40.0
Psychology	1	20	20.0
Engineering	1	19	19.0
Ecology	1	14	14.0
Economics	1	7	7.0

Switzerland

	Journals	Articles	Art%	Rel%	Art/J
All	62	2,445			39.4
H&SS	38	1,286	53%	1%	33.8
Biomed	17	846	35%	40%	49.8
STEM	7	313	13%	-44%	44.7

Weak on STEM, strong on biomed. Switzerland publishes more gold OA than any other country, but only 1% (0.57%) of it is diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	56	58	55	52	45	42
Articles	2,445	2,714	3,345	3,228	3,250	3,007
Art/Jrn	43.7	46.8	60.8	62.1	72.2	71.6
Change	-9.9%	-18.9%	3.6%	-0.7%	8.1%	

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	259	259.0	10.6%
Large: 150-599	5	691	138.2	28.3%
Med.: 60-149	13	854	65.7	34.9%
Small: 20-59	22	451	20.5	18.4%
Smallest: 0-19	15	190	12.7	7.8%

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	20	1,337	66.9	54.7%
Univ/Acad	34	972	28.6	39.8%
Other/Unknown	2	136	68.0	5.6%

More society than university.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	15	27.3%	
Even, $\pm 24.99\%$	26	47.3%	74.5%
Shrank 25%+	14	25.5%	
Total	55		

More growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	17	846	49.8
Miscellany	3	467	155.7
Chemistry	1	184	184.0
Media & Communications	2	163	81.5
Anthropology	3	154	51.3
Education	3	104	34.7
Economics	3	92	30.7
Language & Literature	6	90	15.0
Sociology	5	65	13.0
Other Sciences	2	64	32.0

Law	5	38	7.6
Religion	2	33	16.5
Arts & Architecture	3	32	10.7
Ecology	2	31	15.5
Library Science	1	27	27.0
Philosophy	2	21	10.5
Mathematics	1	18	18.0
Earth Sciences	1	16	16.0

Taiwan

	Journals	Articles	Art%	Rel%	Art/J
All	22	647			29.4
H&SS	11	106	16%	-69%	9.6
Biomed	5	367	57%	129%	73.4
STEM	6	174	27%	17%	29.0

Mostly biomed, very light on H&SS. 36% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	18	19	21	21	22	22
Articles	647	846	569	618	797	789
Art/Jrn	35.9	44.5	27.1	29.4	36.2	35.9
Change	-23.5%	48.7%	-7.9%	-22.5%	1.0%	

Moving up and down a lot within a narrow range.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	253	126.5	39.1%
Med.: 60-149	2	110	55.0	17.0%
Small: 20-59	8	237	29.6	36.6%
Smallest: 0-19	6	47	7.8	7.3%

No largest, but more large than in smaller journals.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	11	426	38.7	65.8%
Univ/Acad	7	221	31.6	34.2%

Two-thirds society/government.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	2	11.1%	
Even, $\pm 24.99\%$	11	61.1%	72.2%
Shrank 25%+	5	27.8%	
Total	18		

Less growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	5	367	73.4
Engineering	3	87	29.0
Education	3	65	21.7
Computer Science	2	61	30.5
Technology	1	26	26.0
Library Science	3	21	7.0
Political Science	1	10	10.0
Economics	1	6	6.0
Law	2	4	2.0
Language & Literature	1	0	0.0

Thailand

	Journals	Articles	Art%	Rel%	Art/J
All	23	1,006			43.7
H&SS	5	77	8%	-85%	15.4
Biomed	7	311	31%	25%	44.4
STEM	11	618	61%	167%	56.2

Mostly STEM. Very little H&SS. 82% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	20	22	21	22	22	21
Articles	1,006	1,163	1,151	809	846	883
Art/Jrn	50.3	52.9	54.8	36.8	38.5	42.0
Change	-13.5%	1.0%	42.3%	-4.4%	-4.2%	

Down after two up years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	2	305	152.5	30.3%
Med.: 60-149	9	535	59.4	53.2%
Small: 20-59	5	121	24.2	12.0%
Smallest: 0-19	4	45	11.3	4.5%

No largest, mostly medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	17	922	54.2	91.7%
Soc/Gov	3	84	28.0	8.3%

Even more predominantly university than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	9	45.0%	
Even, \pm 24.99%	9	45.0%	90.0%
Shrank 25%+	2	10.0%	
Total	20		

Much more growth and somewhat less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Other Sciences	6	343	57.2
Medicine	6	290	48.3
Ecology	2	125	62.5
Computer Science	2	80	40.0
Engineering	1	70	70.0
Law	1	26	26.0
Sociology	1	26	26.0
Biology	1	21	21.0
Philosophy	1	15	15.0
Anthropology	2	10	5.0

Turkey

	Journals	Articles	Art%	Rel%	Art/J
All	427	17,871			41.9
H&SS	236	8,691	49%	-7%	36.8
Biomed	107	5,208	29%	18%	48.7
STEM	84	3,972	22%	-3%	47.3

Typical distribution, a little heavy on biomed. 87% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	405	414	394	375	360	335
Articles	17,871	18,471	15,179	13,634	12,841	10,681
Art/Jrn	44.1	44.6	38.5	36.4	35.7	31.9
Change	-3.2%	21.7%	11.3%	6.2%	20.2%	

Down a bit after four strong years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	1,248	624.0	7.0%
Large: 150-599	20	2,981	149.1	16.7%
Med.: 60-149	107	6,765	63.2	37.9%
Small: 20-59	225	6,305	28.0	35.3%
Smallest: 0-19	51	572	11.2	3.2%

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	78	19.5%	
Even, $\pm 24.99\%$	237	59.3%	78.8%
Shrank 25%+	85	21.3%	
Total	400		

Less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	104	5,150	49.5
Religion	21	1,707	81.3
Education	42	1,215	28.9
Economics	37	1,147	31.0
Sociology	19	923	48.6
Engineering	14	861	61.5
Anthropology	26	778	29.9
Agriculture	20	700	35.0
Arts & Architecture	15	688	45.9
Zoology	10	506	50.6
Mathematics	10	483	48.3
Earth Sciences	12	450	37.5
Miscellany	8	425	53.1
Language & Literature	17	389	22.9
Media & Communications	9	319	35.4
Technology	2	317	158.5
Other Sciences	5	266	53.2

Political Science	9	264	29.3
Law	9	257	28.6
Ecology	6	233	38.8
History	10	199	19.9
Psychology	7	168	24.0
Library Science	3	149	49.7
Chemistry	2	116	58.0
Philosophy	4	63	15.8
Biology	3	58	19.3
Computer Science	3	40	13.3

Ukraine

	Journals	Articles	Art%	Rel%	Art/J
All	229	7,056			30.8
H&SS	107	2,533	36%	-31%	23.7
Biomed	35	1,998	28%	14%	57.1
STEM	87	2,525	36%	55%	29.0

Relatively heavy on STEM and light on H&SS. 45% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	199	214	212	207	194	171
Articles	7,056	8,275	8,351	8,284	8,145	8,044
Art/Jrn	35.5	38.7	39.4	40.0	42.0	47.0
Change	-14.7%	-0.9%	0.8%	1.7%	1.3%	

Down year after four fairly flat ones.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	1,011	1,011.0	14.3%
Large: 150-599	9	552	61.3	7.8%
Med.: 60-149	46	2,209	48.0	31.3%
Small: 20-59	131	3,176	24.2	45.0%
Smallest: 0-19	12	108	9.0	1.5%

Mostly medium and small.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	185	5,745	31.1	81.4%
Soc/Gov	13	1,269	97.6	18.0%
Other/Unknown	1	42	42.0	0.6%

Slightly more university-dominated than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	20	10.2%	
Even, $\pm 24.99\%$	101	51.5%	61.7%
Shrank 25%+	75	38.3%	
Total	196		

Lower growth and higher shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	31	1,911	61.6
Physics	11	544	49.5
Education	16	377	23.6
Technology	12	356	29.7
Arts & Architecture	11	313	28.5
Economics	12	290	24.2
Other Sciences	6	274	45.7
Mathematics	10	234	23.4
Law	9	225	25.0
Agriculture	7	219	31.3
Library Science	5	203	40.6
Anthropology	7	199	28.4
Engineering	9	187	20.8
Earth Sciences	11	183	16.6
Computer Science	6	170	28.3
Philosophy	7	168	24.0
Zoology	6	164	27.3

Political Science	10	163	16.3
History	6	161	26.8
Language & Literature	7	147	21.0
Chemistry	6	133	22.2
Sociology	5	105	21.0
Biology	4	87	21.8
Psychology	4	67	16.8
Ecology	3	61	20.3
Religion	2	45	22.5
Media & Communications	3	42	14.0
Miscellany	3	28	9.3

United Kingdom

	Journals	Articles	Art%	Rel%	Art/J
All	467	19,994			42.8
H&SS	256	4,704	24%	-55%	18.4
Biomed	124	8,189	41%	66%	66.0
STEM	87	7,101	36%	54%	81.6

Strong on biomed and STEM, weak on H&SS. Second largest in overall gold OA, but only 8% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	413	418	394	370	339	292
Articles	19,994	17,277	13,411	10,738	10,222	9,021
Art/Jrn	48.4	41.3	34.0	29.0	30.2	30.9
Change	15.7%	28.8%	24.9%	5.0%	13.3%	

Three strong years, no down years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	2	3,436	1,718.0	17.2%
Large: 150-599	24	4,870	202.9	24.4%
Med.: 60-149	76	5,393	71.0	27.0%
Small: 20-59	216	5,318	24.6	26.6%
Smallest: 0-19	95	977	10.3	4.9%

Fairly even distribution among small, medium and large.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Soc/Gov	113	10,235	90.6	51.2%
Univ/Acad	246	7,220	29.3	36.1%
Other/Unknown	54	2,539	47.0	12.7%

Mostly society, with unusually high other/unknown.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	110	27.7%	
Even, $\pm 24.99\%$	182	45.8%	73.6%
Shrank 25%+	105	26.4%	
Total	397		

More growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	116	7,791	67.2
Ecology	24	2,366	98.6
Chemistry	2	1,644	822.0
Economics	42	895	21.3
Education	39	754	19.3
Mathematics	10	729	72.9
Engineering	10	547	54.7
Language & Literature	26	439	16.9
Biology	8	398	49.8

Physics	6	381	63.5
Agriculture	8	372	46.5
Sociology	17	348	20.5
Miscellany	12	326	27.2
Media & Communications	11	324	29.5
Arts & Architecture	19	310	16.3
Anthropology	22	308	14.0
Other Sciences	4	297	74.3
Political Science	14	267	19.1
Computer Science	8	247	30.9
Earth Sciences	3	229	76.3
Law	19	175	9.2
Zoology	7	165	23.6
Library Science	10	137	13.7
Philosophy	8	128	16.0
Technology	5	124	24.8
History	7	122	17.4
Religion	7	117	16.7
Psychology	3	54	18.0

United States

	Journals	Articles	Art%	Rel%	Art/J
All	580	18,253			31.5
H&SS	389	10,563	58%	11%	27.2
Biomed	96	3,665	20%	-19%	38.2
STEM	95	4,025	22%	-4%	42.4

Relatively lean in biomed, rich in H&SS. Third largest for overall gold OA, but only 13% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	517	537	512	487	453	435
Articles	18,253	18,757	15,928	14,108	13,112	13,218
Art/Jrn	35.3	34.9	31.1	29.0	28.9	30.4
Change	-2.7%	17.8%	12.9%	7.6%	-0.8%	

Down slightly after three growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Largest: 600+	1	38	38.0	0.2%
Large: 150-599	27	4,861	180.0	26.6%
Med.: 60-149	80	5,321	66.5	29.2%
Small: 20-59	274	6,766	24.7	37.1%
Smallest: 0-19	135	1,267	9.4	6.9%

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	374	11,498	30.7	63.0%
Soc/Gov	131	5,856	44.7	32.1%
Other/Unknown	12	899	74.9	4.9%

Less university/academia than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	116	23.1%	
Even, $\pm 24.99\%$	234	46.5%	69.6%
Shrank 25%+	153	30.4%	
Total	503		

Slightly more growth *and* shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	92	3,436	37.3
Education	78	2,564	32.9
Anthropology	54	1,378	25.5
Language & Literature	45	1,291	28.7
Mathematics	21	1,189	56.6
Political Science	16	903	56.4
Computer Science	16	875	54.7
Sociology	37	700	18.9

Library Science	28	679	24.3
Ecology	14	650	46.4
Philosophy	20	592	29.6
Religion	12	534	44.5
Media & Communications	19	451	23.7
Economics	18	421	23.4
Arts & Architecture	23	411	17.9
Other Sciences	10	346	34.6
Miscellany	20	339	17.0
Earth Sciences	10	245	24.5
Biology	4	229	57.3
Physics	5	215	43.0
Zoology	4	194	48.5
Engineering	7	142	20.3
Psychology	5	113	22.6
History	9	108	12.0
Chemistry	2	81	40.5
Law	5	79	15.8
Agriculture	4	50	12.5
Technology	2	38	19.0

Uruguay

	Journals	Articles	Art%	Rel%	Art/J
All	33	846			25.6
H&SS	19	479	57%	8%	25.2
Biomed	9	283	33%	35%	31.4
STEM	5	84	10%	-57%	16.8

Light on STEM, relatively heavy on biomed. Entirely diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	31	31	31	31	32	30
Articles	846	879	757	728	660	688
Art/Jrn	27.3	28.4	24.4	23.5	20.6	22.9
Change	-3.8%	16.1%	4.0%	10.3%	-4.1%	

Down slightly after three growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	4	205	51.3	24.2%
Small: 20-59	22	585	26.6	69.1%
Smallest: 0-19	5	56	11.2	6.6%

Two-thirds small with nothing larger than medium.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	24	591	24.6	69.9%
Soc/Gov	7	255	36.4	30.1%

Slightly more society/government than usual.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	7	22.6%	
Even, \pm 24.99%	21	67.7%	90.3%
Shrank 25%+	3	9.7%	
Total	31		

More growth and much less shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Medicine	9	283	31.4
Law	3	83	27.7
Education	4	66	16.5
Language & Literature	1	66	66.0

Psychology	2	61	30.5
Media & Communications	2	57	28.5
Agriculture	2	56	28.0
Library Science	1	38	38.0
Miscellany	1	30	30.0
Arts & Architecture	1	29	29.0
Sociology	1	22	22.0
Anthropology	2	17	8.5
Engineering	1	16	16.0
Zoology	1	12	12.0
Political Science	1	10	10.0
Ecology	1	0	0.0

Venezuela

	Journals	Articles	Art%	Rel%	Art/J
All	26	707			27.2
H&SS	17	578	82%	56%	34.0
Biomed	4	93	13%	-47%	23.3
STEM	5	36	5%	-78%	7.2

Predominantly H&SS, almost no STEM. 96% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	25	26	24	24	24	23
Articles	707	900	699	643	583	542
Art/Jrn	28.3	34.6	29.1	26.8	24.3	23.6
Change	-21.4%	28.8%	8.7%	10.3%	7.6%	

Down year after four growth years.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Med.: 60-149	6	381	63.5	53.9%
Small: 20-59	10	223	22.3	31.5%
Smallest: 0-19	9	103	11.4	14.6%

Mostly medium, nothing larger.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	24	675	28.1	95.5%
Soc/Gov	1	32	32.0	4.5%

Almost entirely university.

Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Grew 25%+	5	20.0%	
Even, $\pm 24.99\%$	12	48.0%	68.0%
Shrank 25%+	8	32.0%	
Total	25		

More shrinkage than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Miscellany	4	156	39.0
Education	3	149	49.7
Sociology	4	141	35.3
Medicine	4	93	23.3
Economics	2	46	23.0
Political Science	1	27	27.0
Language & Literature	1	25	25.0
Engineering	3	19	6.3
Law	1	18	18.0
Arts & Architecture	1	16	16.0
Chemistry	1	12	12.0
Mathematics	1	5	5.0

Viet Nam

	Journals	Articles	Art%	Rel%	Art/J
All	10	431			43.1
H&SS	5	291	68%	29%	58.2
Biomed	1	16	4%	-85%	16.0
STEM	4	124	29%	25%	31.0

Strong on H&SS, almost no biomed. 94% diamond.

Journals and Articles by Year

	2022	2021	2020	2019	2018	2017
Journals	10	10	9	7	7	7
Articles	431	265	197	110	132	122
Art/Jrn	43.1	26.5	21.9	15.7	18.9	17.4
Change	62.6%	34.5%	79.1%	-16.7%	8.2%	

Three years of solid or rapid growth. More than tripled since 2017.

Article Volume

	Journals	Articles	Art/Jrn	Percent
Large: 150-599	1	159	159.0	36.9%
Med.: 60-149	1	67	67.0	15.5%
Small: 20-59	6	171	28.5	39.7%
Smallest: 0-19	2	34	17.0	7.9%

No largest.

Funding Category

	Journals	Articles	Art/Jrn	Percent
Univ/Acad	9	364	40.4	84.5%
Soc/Gov	1	67	67.0	15.5%

Almost all university-based.

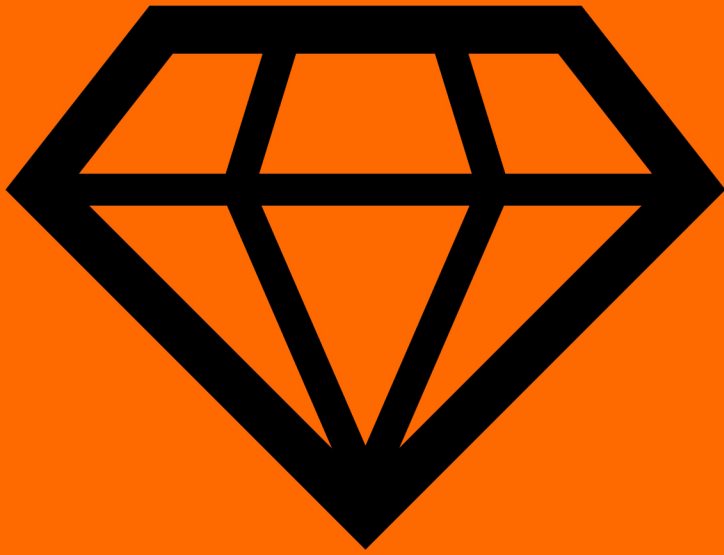
Growth and Shrinkage

Change 2021-2022	Count	Percent	Cum%
Growth	5	50.0%	
Even	5	50.0%	100.0%
Total	10		

No shrinkage, much more growth than usual.

Subject

Subject	Journals	Articles	Art/Jrn
Economics	4	267	66.8
Other Sciences	1	67	67.0
Engineering	2	38	19.0
Sociology	1	24	24.0
Technology	1	19	19.0
Biology	1	16	16.0



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