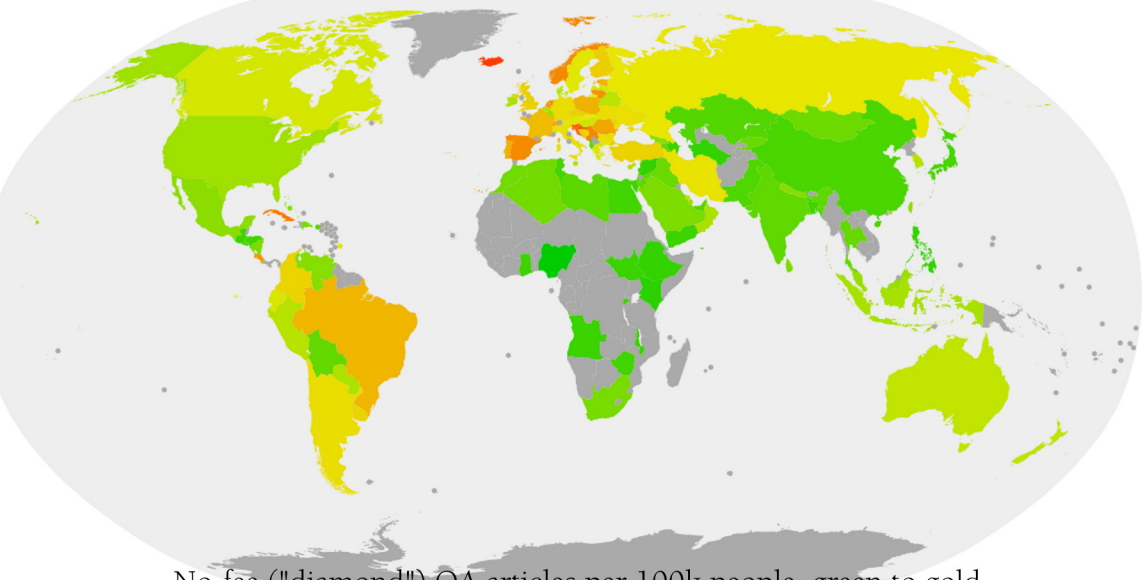


# Gold Open Access by Country 2015-2020



No-fee ("diamond") OA articles per 100k people, green to gold

A supplement to  
Gold Open Access 2015-2020  
Articles in Journals (GOA6)

Walt Crawford

# GOLD OPEN ACCESS BY COUNTRY 2015-2020

Supplement to *Gold Open  
Access 2015-2020: Articles in  
Journals (GOA6)*

Walt Crawford

Cites & Insights Books  
Livermore, California, 2021

# Gold Open Access by Country 2015-2020

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# Preface

This book is a supplement to *Gold Open Access Journals 2015-2020: Articles in Journals (GOA6)*, providing a look at serious gold open access publishing on a country-by-country (and region) basis.

If you love graphs, you'll hate this publication: the start-date graph has been replaced by a compact table covering broader ranges, and the articles-by-year graph is gone as redundant. The growth-and-shrinkage table has also been eliminated.

Countries with at least nine OA journals have full details, with some formatting changes to provide a more compact presentation. (As was true the last two years, table captions are omitted and heading size and spacing is reduced to save space.)

Publisher category and subject tables appear sorted by article count. Table rows with no content are deleted. Order of tables may be adjusted to save space. Tables with no real content for a given country may be deleted.

A partial chapter for each region is followed by chapters for countries within that region, then a chapter offering brief notes on countries with fewer than nine OA journals (except for Pacific/English, which has no such countries).

Overall, this year's survey includes 9% more journals than GOA5 (*Gold Open Access 2014-2019*). The percentage change for each country with nine or more journals appears in the notes for key facts.

Thanks again to SPARC for sponsoring this project.

The heatmaps on the covers were generated using GunnMap. The appendix includes details.





# Overall

Most of these tables also appear in *Gold Open Access 2015-2020* and are repeated here for context. Some tables differ for this book.

## Key facts

	Journals	Articles	Art%	\$/Art
All	15,128	1,061,256		\$1,203
Fee	4,585	690,918	65%	\$1,848
No-fee	10,543	370,338	35%	
Biomed	3,643	394,910	37%	\$1,608
Fee	1,892	300,936	76%	\$2,111
No-fee	1,751	93,974	24%	
STEM	3,891	431,004	41%	\$1,404
Fee	1,597	332,599	77%	\$1,819
No-fee	2,294	98,405	23%	
H&SS	7,594	235,342	22%	\$157
Fee	1,096	57,383	24%	\$645
No-fee	6,498	177,959	76%	

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	14,175	14,497	14,170	13,638	12,744	11,709
%No-fee	69%	70%	71%	71%	71%	72%
Articles	1,061,256	894,054	801,656	712,026	645,731	585,264
%No-fee	35%	39%	43%	46%	47%	46%
Change	19%	12%	13%	10%	10%	

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### Article volume

	Journals	Articles	%No-fee	\$/article
Largest: 600+	229	405,094	8%	\$2,070
Large: 150-599	989	212,389	22%	\$1,328
Med.: 60-149	2,980	204,847	55%	\$537
Small: 20-59	7,962	210,220	75%	\$204
Smallest: 0-19	2,968	28,706	82%	\$125

### Fees and Revenue

	Journals	Articles	Revenue	\$/article
\$1,400+	1,583	498,585	\$1,176,002,398	\$2,359
\$600-\$1,399	867	79,198	\$78,512,027	\$991
\$200-\$599	645	48,715	\$17,725,693	\$364
\$0.20-\$199	1,490	64,420	\$4,894,451	\$76
No fee	10,543	370,338		
Total	15,128	1,061,256	\$1,277,134,569	\$1,203

### Starting date

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	295	500	828	2,035	927
No-fee	1,283	1,497	2,018	4,445	1,300
Total	1,578	1,997	2,846	6,480	2,227

### Publisher category

Category	Journals	Articles	%No-fee	\$/article
Traditional	2,635	345,734	16%	\$1,953
Univ/college	9,103	314,920	73%	\$195
Open Access	1,940	288,770	15%	\$1,529
Society/govt	1,443	111,688	38%	\$886

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Medicine	3,224	329,202	27%	\$1,499
Other Sciences	220	76,191	7%	\$2,090
Biology	419	65,708	8%	\$2,154
Ecology	472	60,733	27%	\$1,357
Engineering	515	57,699	19%	\$1,337
Chemistry	203	55,576	11%	\$1,656
Physics	210	40,469	26%	\$1,456
Agriculture	568	37,145	31%	\$922
Education	974	33,807	78%	\$70
Earth Sciences	506	32,131	38%	\$1,086
Economics	941	28,086	59%	\$155
Language & Literature	984	25,713	87%	\$26
Anthropology	663	22,061	64%	\$219
Computer Science	396	21,599	40%	\$884
Zoology	297	20,092	19%	\$1,054
Sociology	578	19,120	76%	\$143
Mathematics	320	17,837	37%	\$1,014
History	495	13,904	92%	\$16
Political Science	481	13,609	87%	\$68
Law	470	13,055	86%	\$57
Miscellany	241	12,421	69%	\$169
Psychology	268	11,866	44%	\$1,154
Technology	184	11,532	50%	\$667
Arts & Architecture	405	11,382	77%	\$131
Media & Communications	313	9,225	88%	\$66
Religion	318	8,635	64%	\$176
Philosophy	293	8,167	92%	\$74
Library Science	170	4,291	96%	\$28

Note that region pages show countries rather than subjects.

# Africa

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	205	7,897			\$276	-77%
Fee	95	4,778	61%	-7%	\$455	-75%
No-fee	110	3,119	39%	13%		
Biomed	47	2,829	36%	-4%	\$349	-78%
Fee	26	2,194	78%	2%	\$450	-79%
No-fee	21	635	22%	-6%		
STEM	68	2,069	26%	-35%	\$122	-91%
Fee	20	677	33%	-58%	\$373	-80%
No-fee	48	1,392	67%	195%		
H&SS	90	2,999	38%	71%	\$312	98%
Fee	49	1,907	64%	161%	\$491	-24%
No-fee	41	1,092	36%	-52%		

Strong in H&SS; high no-fee percentage in STEM but low no-fee percentage in H&SS. 14% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	194	199	190	188	178	165
%No-fee	53%	53%	53%	52%	52%	52%
Articles	7,897	7,646	7,348	7,292	6,048	5,558
%No-fee	39%	39%	41%	37%	38%	41%
Change	3%	4%	1%	21%	9%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	10	2,138	18%	\$300
Med.: 60-149	37	2,167	41%	\$336
Small: 20-59	114	3,173	49%	\$230
Smallest: 0-19	44	419	71%	\$187

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	1	6	\$9,000	\$1,500
\$600-\$1,399	41	1,752	\$1,409,351	\$804
\$200-\$599	23	2,074	\$640,039	\$309
\$0.20-\$199	30	946	\$117,461	\$124
No fee	110	3,119		
Total	205	7,897	\$2,175,851	\$276

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	16	16	17	38	8
No-fee	10	17	21	47	15
Total	26	33	38	85	23

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	105	3,767	53%	\$116
Open Access	67	2,948	12%	\$521
Society/govt	28	1,062	67%	\$140
Traditional	5	120	48%	\$448

**Countries**

<b>Country</b>	<b>Journals</b>	<b>Articles</b>	<b>%no-fee</b>	<b>\$/article</b>
Algeria	25	726	100%	\$0
Angola	3	71	100%	\$0
Cameroon	1	316	0%	\$208
Dem. Rep. Congo	1	67	100%	\$0
Ethiopia	7	171	100%	\$0
Ghana	6	119	61%	\$39
Kenya	5	290	18%	\$388
Libya	3	111	49%	\$180
Malawi	1	38	100%	\$0
Mali	1	24	0%	\$114
Morocco	27	666	88%	\$18
Nigeria	9	753	6%	\$189
Rwanda	1	30	100%	\$0
South Africa	109	4,399	25%	\$413
South Sudan	1	24	100%	\$0
Tunisia	4	46	89%	\$15
Zimbabwe	1	46	100%	\$0

Countries with nine or more journals have their own chapters, followed by a chapter for the other countries—in this case, most of them. Note that the Middle East is not included. The single Uganda journal was removed from *DOAJ* in 2020.

# Algeria

Because no journals have fees, the tables are shorter and different.

## Key facts

	Journals	Articles	Art%	Rel%
All	25	726		
Biomed	2	12	2%	-96%
STEM	14	341	47%	16%
H&SS	9	373	51%	132%

Mostly H&SS and STEM. 19% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	20	21	20	20	20	19
Articles	726	789	705	483	399	542
Change	-8%	12%	46%	21%	-26%	

Slowing growth, but added journals mean 41% more articles than in GOA5.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Large: 150-599	1	116	16%	116
Med.: 60-149	4	276	38%	69
Small: 20-59	11	279	38%	25
Smallest: 0-19	9	55	8%	6

No very large journals.



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### Starting date

	2001-05	2006-10	2011-15	2016-20
Journals	4	3	15	3

All recent, most starting 2011-2015.

### Publisher category

Category	Journals	Articles	Percent	Art/Jrn
Univ/college	22	698	96%	32
Society/govt	2	16	2%	8
Open Access	1	12	2%	12

The table speaks for itself.

### Subject

Subject	Journals	Articles	Art/Jrn
Other Sciences	3	123	41
Economics	2	108	54
Law	1	81	81
Miscellany	1	78	78
Language & Literature	3	71	24
Engineering	3	69	23
Agriculture	2	58	29
Earth Sciences	1	47	47
Philosophy	1	25	25
Technology	1	24	24
Ecology	1	16	16
Medicine	2	12	6
Political Science	1	10	10
Mathematics	1	4	4
Chemistry	1	0	0
Physics	1	0	0

# Morocco

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	27	666			\$18	-99%
Fee	2	83	12%	-81%	\$142	-92%
No-fee	25	583	88%	151%		
Biomed	4	107	16%	-57%	\$84	-95%
Fee	1	56	52%	-31%	\$160	-92%
No-fee	3	51	48%	100%		
STEM	14	316	47%	17%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	14	316	100%	338%		
H&SS	9	243	36%	65%	\$12	-93%
Fee	1	27	11%	-54%	\$105	-84%
No-fee	8	216	89%	18%		

Inexpensive, light in biomed, no fees in STEM. Adding journals to DOAJ rapidly: 51% more than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	27	27	24	22	18	15
%No-fee	93%	93%	96%	95%	94%	93%
Articles	666	618	541	557	355	231
%No-fee	88%	89%	96%	95%	96%	94%
Change	8%	14%	-3%	57%	54%	

### Article volume

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	3	149	100%	\$0
Small: 20-59	15	415	80%	\$28
Smallest: 0-19	9	102	100%	\$0

No large journals.

### Fees and revenue

	Journals	Articles	Revenue	\$/article
\$0.20-\$199	2	83	\$11,802	\$142
No fee	25	583		
Total	27	666	\$11,802	\$18

Even fewer fee-based journals than in GOA5.

### Starting date

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	0	1	1
No-fee	1	4	2	10	8
Total	1	4	2	11	9

Mostly recent, including both fee journals.

### Publisher category

Category	Journals	Articles	%No-fee	\$/article
Univ/college	21	546	85%	\$22
Society/govt	4	73	100%	\$0
Open Access	1	24	100%	\$0
Traditional	1	23	100%	\$0

Universities dominate—and publish the only journals with fees.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Economics	6	163	83%	\$17
Medicine	3	98	43%	\$91
Agriculture	3	89	100%	\$0
Ecology	4	81	100%	\$0
Earth Sciences	2	68	100%	\$0
Mathematics	2	41	100%	\$0
Miscellany	1	40	100%	\$0
Chemistry	2	35	100%	\$0
Education	1	21	100%	\$0
Arts & Architecture	1	19	100%	\$0
Biology	1	9	100%	\$0
Computer Science	1	2	100%	\$0

# Nigeria

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	9	753			\$189	-84%
Fee	7	706	94%	44%	\$202	-89%
No-fee	2	47	6%	-82%		
Biomed	3	448	59%	60%	\$72	-96%
Fee	4	258	58%	-24%	\$85	-96%
No-fee	2	47	10%	-56%		
STEM	6	305	41%	0%	\$189	-87%
Fee	7	706	231%	200%	\$202	-89%
No-fee	2	47	15%	-33%		
H&SS	0	0		-100%		

No H&SS journals. Inexpensive. Mostly STEM. One more journal (12.5% more) than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	9	9	8	8	8	8
%No-fee	22%	22%	25%	25%	25%	25%
Articles	753	736	720	706	604	525
%No-fee	6%	7%	8%	6%	6%	7%
Change	2%	2%	2%	17%	15%	

Essentially flat since 2017 after two years of growth.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	2	478	0%	\$253
Med.: 60-149	1	72	0%	\$91
Small: 20-59	6	203	23%	\$72

No very large or very small journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	364	\$109,200	\$300
\$0.20-\$199	6	342	\$33,066	\$97
No fee	2	47		
Total	9	753	\$142,266	\$189

All fee journals are inexpensive or very inexpensive.

**Starting date**

	2001-05	2006-10	2011-15	2016-20
Fee	1	1	4	1
No-fee	0	0	2	0
Total	1	1	6	1

All recent, most started 2011-2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	7	672	7%	\$201
Society/govt	2	81	0%	\$92

### Subject

Subject	Journals	Articles	%No-fee	\$/article
Medicine	3	448	0%	\$268
Technology	1	114	0%	\$104
Ecology	2	90	20%	\$73
Earth Sciences	1	42	0%	\$52
Physics	1	30	0%	\$46
Other Sciences	1	29	100%	\$0

# South Africa

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	109	4,399			\$413	-66%
Fee	76	3,302	75%	15%	\$550	-70%
No-fee	33	1,097	25%	-29%		
Biomed	27	1,370	31%	-16%	\$494	-69%
Fee	18	1,111	81%	6%	\$610	-71%
No-fee	9	259	19%	-21%		
STEM	22	896	20%	-50%	\$231	-84%
Fee	11	332	37%	-52%	\$625	-66%
No-fee	11	564	63%	176%		
H&SS	60	2,133	48%	119%	\$436	178%
Fee	47	1,859	87%	257%	\$501	-22%
No-fee	13	274	13%	-83%		

Unusually low no-fee H&SS percentage. Generally moderate fees. 8% more journals than in GOA5. The majority of African OA.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	104	108	105	106	99	92
%No-fee	29%	31%	31%	30%	30%	32%
Articles	4,399	4,316	4,209	4,286	3,595	3,154
%No-fee	25%	23%	23%	23%	25%	27%
Change	2%	3%	-2%	19%	14%	

Essentially flat since 2017 after two years of growth.



**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	5	1,161	17%	\$392
Med.: 60-149	20	1,219	25%	\$482
Small: 20-59	65	1,829	29%	\$380
Smallest: 0-19	19	190	37%	\$411

No very large journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	1	6	\$9,000	\$1,500
\$600-\$1,399	40	1,632	\$1,319,351	\$808
\$200-\$599	20	1,337	\$445,277	\$333
\$0.20-\$199	15	327	\$41,955	\$128
No fee	33	1,097		
Total	109	4,399	\$1,815,583	\$413

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	16	14	14	26	6
No-fee	9	7	6	9	2
Total	25	21	20	35	8

Always mostly fee, long history with restored growth since 2011.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Open Access	57	2,673	10%	\$563
Univ/college	35	1,116	39%	\$184
Society/govt	13	513	70%	\$100
Traditional	4	97	36%	\$555

Surprisingly, university publications mostly have fees.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	26	1,360	18%	\$498
Religion	10	601	0%	\$665
Education	9	359	21%	\$325
Anthropology	3	271	13%	\$189
Earth Sciences	2	266	100%	\$0
Other Sciences	2	182	100%	\$0
Language & Literature	7	167	19%	\$358
Law	6	167	29%	\$131
Economics	6	142	0%	\$676
Sociology	4	131	0%	\$438
Engineering	4	118	43%	\$256
Political Science	4	97	24%	\$603
Ecology	3	80	48%	\$356
Chemistry	2	76	26%	\$589
Miscellany	4	69	30%	\$466
Computer Science	3	60	12%	\$537
Zoology	3	58	0%	\$744
History	3	49	35%	\$87
Psychology	2	45	0%	\$704
Agriculture	1	25	0%	\$303
Arts & Architecture	1	22	100%	\$0
Technology	1	19	0%	\$663
Library Science	1	13	0%	\$121
Mathematics	1	12	0%	\$700
Biology	1	10	100%	\$0

# Other African Countries

Thirteen countries. 35 journals.

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	35	1,353			\$152	-87%
Fee	10	687	51%	-22%	\$300	-84%
No-fee	25	666	49%	41%		
Biomed	11	892	66%	77%	\$203	-87%
Fee	4	579	65%	-15%	\$313	-85%
No-fee	7	313	35%	47%		
STEM	12	211	16%	-62%	\$109	-92%
Fee	5	87	41%	-47%	\$265	-85%
No-fee	7	124	59%	157%		
H&SS	12	250	18%	-17%	\$9	-94%
Fee	1	21	8%	-66%	\$105	-84%
No-fee	11	229	92%	21%		

Strong on biomed, mostly no-fee in STEM and H&SS. 6% growth in journals from GOA5 (after accounting for Nigeria).

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	34	34	33	32	33	31
%No-fee	74%	71%	70%	69%	70%	68%
Articles	1,353	1,187	1,173	1,260	1,095	1,106
%No-fee	49%	54%	63%	56%	56%	58%
Change	14%	1%	-7%	15%	-1%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	2	383	17%	\$171
Med.: 60-149	9	451	33%	\$295
Small: 20-59	17	447	85%	\$16
Smallest: 0-19	7	72	96%	\$4

No very large journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1.399	1	120	\$90,000	\$750
\$200-\$599	2	373	\$85,562	\$229
\$0.20-\$199	7	194	\$30,638	\$158
No fee	25	666	\$0	\$0
Total	35	1,353	\$206,200	\$152

**Starting date**

	2001-05	2006-10	2011-15	2016-20
Fee	1	2	7	0
No-fee	2	10	11	2
Total	3	12	18	2

All 21<sup>st</sup> century, but growth has mostly stalled since 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	20	735	49%	\$117
Society/govt	8	383	69%	\$235
Open Access	7	235	20%	\$127

Mostly universities.

## Subject

Subject	Journals	Articles	%No-fee	\$/article
Medicine	9	749	42%	\$208
Biology	2	143	0%	\$177
Sociology	3	75	72%	\$29
Zoology	1	57	0%	\$350
Miscellany	2	48	100%	\$0
Language & Literature	1	46	100%	\$0
Chemistry	1	44	100%	\$0
Agriculture	4	43	49%	\$49
Ecology	3	33	85%	\$21
Engineering	2	25	88%	\$13
Economics	1	23	100%	\$0
Political Science	1	16	100%	\$0
Law	1	13	100%	\$0
Anthropology	1	12	100%	\$0
Education	1	12	100%	\$0
Other Sciences	1	9	100%	\$0
Library Science	1	5	100%	\$0

## Country Summaries

### Angola

Three no-fee journals, two university and one society. 71 articles in 2020.

### Cameroon

One university-published \$108 journal, 316 articles in 2020.

### Dem. Rep. Congo

One no-fee university-published journal, 67 articles in 2020.

### Ethiopia

Seven no-fee journals (six university, one society), 171 2020 articles.

**Ghana**

Six journals, two with \$105 fees, one \$95, the rest no-fee. 119 articles in 2020.

**Kenya**

Five journals (three with fees), 290 articles in 2020.

**Libya**

Two no-fee and one \$350, 111 articles in 2019.

**Malawi**

One no-fee university journal, 38 articles in 2020.

**Mali**

One \$114 fee-based journal with 24 articles in 2020.

**Rwanda**

One no-fee university journal, 30 articles in 2020.

**South Sudan**

One no-fee society journal, 24 articles in 2020.

**Tunisia**

Four journals, one with \$137 fees, 46 articles in 2020.

**Zimbabwe**

One no-fee society journal, 46 articles in 2020.

# Asia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	2,412	90,768			\$198	-84%
Fee	938	46,985	52%	-20%	\$383	-79%
No-fee	1,474	43,783	48%	38%		
Biomed	637	41,460	46%	23%	\$271	-83%
Fee	260	21,116	51%	-33%	\$532	-75%
No-fee	377	20,344	49%	106%		
STEM	696	26,382	29%	-28%	\$203	-86%
Fee	310	15,552	59%	-24%	\$344	-81%
No-fee	386	10,830	41%	80%		
H&SS	1,079	22,926	25%	14%	\$62	-60%
Fee	368	10,317	45%	85%	\$138	-79%
No-fee	711	12,609	55%	-27%		

Most fee journals are inexpensive. 1.4% more journals than GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	2,265	2,320	2,278	2,165	1,888	1,645
%No-fee	60%	61%	61%	61%	61%	60%
Articles	90,768	80,106	76,213	73,788	68,260	59,272
%No-fee	48%	50%	50%	50%	51%	49%
Change	13%	5%	3%	8%	15%	

A return to healthy growth after three slow years.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	8	5,911	19%	\$456
Large: 150-599	112	22,104	32%	\$409
Med.: 60-149	341	23,518	52%	\$173
Small: 20-59	1,252	31,027	55%	\$66
Smallest: 0-19	699	8,208	75%	\$22

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	23	2,871	\$5,360,191	\$1,867
\$600-\$1,399	52	6,344	\$5,741,600	\$905
\$200-\$599	145	15,510	\$5,422,653	\$350
\$0.20-\$199	718	22,260	\$1,483,191	\$67
No fee	1,474	43,783		
Total	2,412	90,768	\$18,007,635	\$198

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	63	75	142	459	199
No-fee	76	106	198	786	308
Total	139	181	340	1,245	507

Slowdown from 2011-15, but still a lot of growth.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	1,679	41,404	47%	\$76
Open Access	355	25,335	51%	\$236
Society/govt	233	12,636	38%	\$267
Traditional	145	11,393	59%	\$482



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	579	39,231	50%	\$270
Economics	214	5,435	50%	\$131
Education	225	5,070	38%	\$54
Engineering	102	4,226	42%	\$206
Agriculture	111	3,997	23%	\$232
Ecology	62	3,297	38%	\$234
Language & Literature	133	2,794	54%	\$34
Earth Sciences	59	2,742	70%	\$146
Zoology	57	2,560	16%	\$359
Religion	144	2,256	63%	\$37
Biology	58	2,229	34%	\$275
Computer Science	90	2,207	51%	\$40
Technology	36	1,663	40%	\$511
Physics	38	1,642	41%	\$169
Other Sciences	46	1,531	62%	\$76
Law	74	1,438	67%	\$24
Mathematics	64	1,409	46%	\$37
Anthropology	48	1,293	68%	\$56
Chemistry	31	1,108	44%	\$75
Sociology	46	915	68%	\$20
Political Science	48	890	73%	\$79
Miscellany	23	783	60%	\$12
Arts & Architecture	25	518	83%	\$10
Psychology	34	503	53%	\$63
Media & Communications	26	422	58%	\$42
Library Science	17	278	91%	\$5
History	15	219	75%	\$20
Philosophy	7	112	100%	\$0

**Country of Publication**

<b>Country</b>	<b>Journals</b>	<b>Articles</b>	<b>%no-fee</b>	<b>\$/article</b>
Bangladesh	20	863	52%	\$49
China	133	12,344	50%	\$359
Hong Kong	19	1,221	30%	\$1,000
India	297	22,374	56%	\$205
Indonesia	1,490	31,628	45%	\$48
Japan	38	1,531	32%	\$954
Kyrgyzstan	3	85	100%	\$0
Malaysia	74	2,851	45%	\$155
Mongolia	4	84	55%	\$34
Nepal	23	1,020	80%	\$19
Pakistan	74	3,965	30%	\$131
Philippines	11	181	96%	\$4
Singapore	18	574	48%	\$695
South Korea	132	9,024	39%	\$316
Sri Lanka	15	456	100%	\$0
Taiwan	31	1,550	49%	\$324
Thailand	27	909	83%	\$31
Viet Nam	3	108	56%	\$19

Hong Kong at the four-digit average fee mark. Japan and Singapore are the only other countries with averages over \$400.

# Bangladesh

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	20	863			\$49	-96%
Fee	7	417	48%	-26%	\$101	-95%
No-fee	13	446	52%	48%		
Biomed	8	278	32%	-13%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	8	278	100%	320%		
STEM	11	569	66%	62%	\$74	-95%
Fee	7	417	73%	-5%	\$101	-94%
No-fee	4	152	27%	17%		
H&SS	1	16	2%	-92%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	1	16	100%	32%		

Only STEM has fees, low as they are. Same journal count as GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	19	20	20	20	19	17
%No-fee	63%	65%	65%	65%	63%	65%
Articles	863	821	787	714	941	876
%No-fee	52%	56%	62%	68%	75%	71%
Change	5%	4%	10%	-24%	7%	

As noted last year: the perturbation in 2017 is essentially one journal.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	17	100%	\$0
Med.: 60-149	7	550	41%	\$66
Small: 20-59	9	249	62%	\$23
Smallest: 0-19	3	47	100%	\$0

No very large journals, and the one large one is fading away. (Reminder: “Large” means 150-599 in some year after 2014.)

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	92	\$23,000	\$250
\$0.20-\$199	6	325	\$18,914	\$58
No fee	13	446		
Total	20	863	\$41,914	\$49

In GOA5, no journal charged more than \$100; now, one does.

**Starting date**

	2001-05	2006-10	2011-15	2016-20
Fee	1	1	5	0
No-fee	2	6	4	1
Total	3	7	9	1

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	8	343	62%	\$19
Society/govt	10	341	28%	\$91
Open Access	2	179	77%	\$23

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Agriculture	6	325	0%	\$58
Medicine	8	278	100%	\$0
Zoology	2	124	26%	\$185
Other Sciences	2	105	100%	\$0
Philosophy	1	16	100%	\$0
Earth Sciences	1	15	100%	\$0

None of the medical journals charge fees, which is a bit unusual.

# China

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	133	12,344			\$359	-70%
Fee	56	6,203	50%	-23%	\$714	-61%
No-fee	77	6,141	50%	43%		
Biomed	49	5,418	44%	18%	\$496	-69%
Fee	24	3,211	59%	-22%	\$837	-60%
No-fee	25	2,207	41%	71%		
STEM	77	6,570	53%	31%	\$265	-81%
Fee	32	2,992	46%	-41%	\$581	-68%
No-fee	45	3,578	54%	139%		
H&SS	7	356	3%	-87%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	7	356	100%	32%		

Very little H&SS, all no-fee<sup>1</sup>. Half no-fee overall, and relatively low fees. 30% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	132	121	106	89	80	68
%No-fee	58%	55%	56%	54%	56%	51%
Articles	12,344	9,709	8,562	8,402	7,696	6,223
%No-fee	50%	42%	42%	41%	41%	27%
Change	27%	13%	2%	9%	24%	

<sup>1</sup> GOA5 erroneously said the opposite—this was true last year as well.

The number of active journals is growing rapidly, and article counts are up strongly. Unusual: the no-fee percentage is growing.

### Article volume

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	370	100%	\$0
Large: 150-599	23	5,919	32%	\$499
Med.: 60-149	50	4,366	62%	\$274
Small: 20-59	46	1,535	67%	\$176
Smallest: 0-19	13	154	82%	\$34

### Fees and revenue

	Journals	Articles	Revenue	\$/article
\$1,400+	7	1,141	\$2,342,270	\$2,053
\$600-\$1,399	9	1,043	\$889,638	\$853
\$200-\$599	25	2,985	\$1,075,268	\$360
\$0.20-\$199	15	1,034	\$119,822	\$116
No fee	77	6,141		
Total	133	12,344	\$4,426,999	\$359

### Starting date

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	5	6	9	15	21
No-fee	0	4	8	33	32
Total	5	10	17	48	53

Unusually strong post-2015.

### Publisher category

Category	Journals	Articles	%No-fee	\$/article
Traditional	86	7,065	69%	\$385
Univ/college	18	2,086	38%	\$191
Open Access	19	1,968	9%	\$382
Society/govt	10	1,225	24%	\$454

Unusual for traditional publishers to be largest group.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	43	5,130	40%	\$491
Earth Sciences	17	1,818	83%	\$46
Engineering	14	1,669	32%	\$388
Agriculture	8	705	32%	\$738
Ecology	12	669	78%	\$182
Technology	6	470	51%	\$147
Physics	6	381	43%	\$135
Zoology	3	320	0%	\$745
Biology	6	288	52%	\$578
Computer Science	5	240	100%	\$0
Anthropology	1	177	100%	\$0
Chemistry	3	148	82%	\$34
Other Sciences	2	139	0%	\$22
Arts & Architecture	1	79	100%	\$0
Economics	2	37	100%	\$0
Library Science	1	34	100%	\$0
Political Science	1	19	100%	\$0
Mathematics	1	11	100%	\$0
Language & Literature	1	10	100%	\$0



# Hong Kong

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	19	1,221			\$1,000	-17%
Fee	7	849	70%	7%	\$1,438	-22%
No-fee	12	372	30%	-13%		
Biomed	10	1,072	88%	136%	\$1,111	-31%
Fee	5	820	76%	0%	\$1,453	-31%
No-fee	5	252	24%	-1%		
STEM	6	94	8%	-81%	\$0	-100%
Fee	1	0	0%	-100%	\$0	-100%
No-fee	5	94	100%	338%		
H&SS	3	55	5%	-80%	\$527	235%
Fee	1	29	53%	116%	\$1,000	55%
No-fee	2	26	47%	-37%		

Low on H&S and STEM, and fee H&SS is unusually expensive while all active STEM is no-fee. No change in journal count from GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	18	17	17	14	13	13
%No-fee	67%	65%	65%	64%	54%	54%
Articles	1,221	895	662	598	976	1,249
%No-fee	30%	38%	47%	48%	48%	28%
Change	36%	35%	11%	-39%	-22%	

Two big growth years—but still not quite back to 2015 levels.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	273	0%	\$1,500
Large: 150-599	4	656	33%	\$954
Med.: 60-149	1	74	0%	\$1,500
Small: 20-59	6	164	60%	\$451
Smallest: 0-19	7	54	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	3	474	\$774,500	\$1,634
\$600-\$1,399	3	375	\$446,000	\$1,189
\$0.20-\$199	1	0	\$0	
No fee	12	372		
Total	19	1,221	\$1,220,500	\$1,000

No midprice (\$200-\$599) journals.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	1	1	4	0
No-fee	1	0	1	5	5
Total	2	1	2	9	5

Most journals are recent.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	6	832	11%	\$1,279
Open Access	10	250	56%	\$624
Univ/college	1	129	100%	\$0
Society/govt	2	10	100%	\$0

Traditional publishers are the most expensive.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	8	1,051	22%	\$1,134
Ecology	2	55	100%	\$0
Anthropology	1	29	0%	\$1,000
Education	1	23	100%	\$0
Biology	2	21	100%	\$0
Zoology	1	21	100%	\$0
Engineering	1	10	100%	\$0
Physics	1	8	100%	\$0
Language & Literature	1	3	100%	\$0
Computer Science	1	0		

Not unusual: medicine is by far the largest subject, but much more so than usual, with 86% of all articles. Unusual: anthropology has the next highest average cost (and the only fees other than medicine).

# India

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	297	22,374			\$205	-83%
Fee	86	9,767	44%	-33%	\$469	-75%
No-fee	211	12,607	56%	61%		
Biomed	240	19,224	86%	131%	\$214	-87%
Fee	74	8,381	44%	-43%	\$490	-77%
No-fee	166	10,843	56%	137%		
STEM	34	2,296	10%	-75%	\$209	-85%
Fee	10	1,324	58%	-25%	\$362	-80%
No-fee	24	972	42%	85%		
H&SS	23	854	4%	-83%	\$1	-99%
Fee	2	62	7%	-70%	\$16	-98%
No-fee	21	792	93%	23%		

Predominantly biomed and mostly no-fee. 5% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	283	284	289	272	259	231
%No-fee	70%	71%	71%	69%	68%	65%
Articles	22,374	19,280	19,201	19,794	20,152	17,831
%No-fee	56%	57%	56%	54%	55%	55%
Change	16%	0%	-3%	-2%	13%	

Solid growth in 2020, back to above 2016 levels.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	4	3,604	21%	\$438
Large: 150-599	44	7,908	47%	\$297
Med.: 60-149	96	6,396	72%	\$61
Small: 20-59	144	4,371	79%	\$57
Smallest: 0-19	9	95	86%	\$205

Only the large and largest journals are mostly fee-based.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	4	551	\$850,338	\$1,543
\$600-\$1,399	9	2,246	\$2,090,685	\$931
\$200-\$599	35	4,243	\$1,425,379	\$336
\$0.20-\$199	38	2,727	\$218,852	\$80
No fee	211	12,607		
Total	297	22,374	\$4,585,254	\$205

At all levels but \$200-\$599, average fees are slightly *down* from GOA5.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	9	25	46	5
No-fee	6	23	37	117	28
Total	7	32	62	163	33

Mostly 2011-2015, with few very-recent fee journals.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Open Access	230	19,107	56%	\$224
Univ/college	36	1,257	76%	\$15
Society/govt	17	1,031	18%	\$207
Traditional	14	979	74%	\$73

Unusual in that universities play so little part.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	230	18,500	57%	\$210
Biology	10	724	39%	\$292
Ecology	6	609	17%	\$474
Zoology	3	485	7%	\$357
Agriculture	5	352	18%	\$17
Miscellany	3	281	84%	\$1
Chemistry	3	206	84%	\$9
Language & Literature	6	181	100%	\$0
Engineering	3	149	100%	\$0
Mathematics	2	133	84%	\$9
Other Sciences	3	104	100%	\$0
Technology	4	95	72%	\$85
Political Science	1	93	100%	\$0
Computer Science	3	92	100%	\$0
Education	2	79	78%	\$9
Economics	3	77	100%	\$0
Physics	2	71	100%	\$0
Law	3	50	100%	\$0
Philosophy	1	43	100%	\$0
Library Science	1	30	100%	\$0
Sociology	2	20	100%	\$0
Psychology	1	0		

Medicine is 83% of articles; ecology and zoology are most expensive.

# Indonesia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	1,490	31,628			\$48	-96%
Fee	637	17,290	55%	-16%	\$87	-95%
No-fee	853	14,338	45%	30%		
Biomed	158	4,228	13%	-64%	\$53	-97%
Fee	87	2,654	63%	-18%	\$85	-96%
No-fee	71	1,574	37%	56%		
STEM	429	10,146	32%	-21%	\$78	-94%
Fee	215	6,604	65%	-16%	\$119	-93%
No-fee	214	3,542	35%	53%		
H&SS	903	17,254	55%	146%	\$28	-82%
Fee	335	8,032	47%	91%	\$61	-91%
No-fee	568	9,222	53%	-29%		

Mostly H&SS, very low fees—and most of the Asian OA journals. 4% fewer journals than in GOA5. Excludes 275 journals problematic (mostly malware) for two years running.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	1,385	1,442	1,409	1,345	1,139	965
%No-fee	56%	57%	57%	57%	57%	58%
Articles	31,628	30,803	28,509	26,798	22,608	19,188
%No-fee	45%	49%	50%	51%	52%	53%
Change	3%	8%	6%	19%	18%	

Slow growth since 2017.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	1	726	0%	\$320
Large: 150-599	10	1,206	14%	\$150
Med.: 60-149	72	3,962	22%	\$64
Small: 20-59	835	18,874	44%	\$39
Smallest: 0-19	572	6,860	71%	\$16

Mostly small journals.

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$600-\$1,399	1	160	\$104,000	\$650
\$200-\$599	23	1,655	\$483,141	\$292
\$0.20-\$199	613	15,475	\$915,428	\$59
No fee	853	14,338		
Total	1,490	31,628	\$1,502,569	\$48

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	24	34	77	349	153
No-fee	28	39	101	495	190
Total	52	73	178	844	343

Slowing down since 2015, as is true for many countries.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	1,412	29,719	45%	\$48
Society/govt	48	1,149	44%	\$37
Open Access	26	700	46%	\$39
Traditional	4	60	100%	\$0

Nearly 94% of articles are university-published.



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Education	197	4,259	36%	\$32
Medicine	132	3,664	38%	\$53
Economics	185	3,606	56%	\$34
Language & Literature	111	2,242	48%	\$28
Religion	132	1,887	73%	\$14
Computer Science	69	1,667	38%	\$37
Agriculture	76	1,628	26%	\$49
Law	68	1,333	64%	\$26
Ecology	23	1,229	16%	\$214
Engineering	61	1,224	53%	\$27
Mathematics	52	1,068	31%	\$47
Zoology	39	962	29%	\$75
Sociology	37	779	62%	\$23
Anthropology	36	775	54%	\$36
Chemistry	22	686	24%	\$109
Political Science	35	594	70%	\$23
Biology	26	564	31%	\$59
Technology	19	467	44%	\$231
Earth Sciences	25	466	59%	\$52
Psychology	29	433	58%	\$32
Physics	22	396	43%	\$28
Media & Communications	23	362	60%	\$43
Arts & Architecture	20	358	75%	\$14
Miscellany	11	358	25%	\$25
Other Sciences	21	353	60%	\$31
History	11	135	78%	\$17
Library Science	6	115	83%	\$6
Philosophy	2	18	100%	\$0

# Japan

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	38	1,531			\$954	-21%
Fee	17	1,040	68%	4%	\$1,405	-24%
No-fee	21	491	32%	-8%		
Biomed	12	476	31%	-16%	\$1,143	-29%
Fee	9	372	78%	3%	\$1,463	-31%
No-fee	3	104	22%	-8%		
STEM	13	867	57%	39%	\$1,057	-25%
Fee	8	668	77%	0%	\$1,372	-25%
No-fee	5	199	23%	1%		
H&SS	13	188	12%	-45%	\$0	-100%
Fee	0	0	0%	-100%		
No-fee	13	188	100%	32%		

Strong on STEM. No fees in H&SS. 15% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	34	36	37	37	34	30
%No-fee	50%	53%	57%	57%	59%	57%
Articles	1,531	1,523	1,637	1,452	1,189	1,168
%No-fee	32%	30%	25%	33%	36%	33%
Change	1%	-7%	13%	22%	2%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	3	462	0%	\$1,145
Med.: 60-149	9	646	38%	\$1,165
Small: 20-59	15	346	56%	\$464
Smallest: 0-19	11	77	64%	\$237

No very large journals, few large ones.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	5	353	\$849,093	\$2,405
\$600-\$1,399	8	582	\$583,323	\$1,002
\$200-\$599	3	52	\$23,355	\$449
\$0.20-\$199	1	53	\$4,929	\$93
No fee	21	491		
Total	38	1,531	\$1,460,700	\$954

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	3	2	2	4	6
No-fee	3	2	3	12	1
Total	6	4	5	16	7

Another country where 2011-15 saw the most new journals.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Society/govt	19	597	25%	\$852
Univ/college	6	479	29%	\$663
Traditional	4	381	34%	\$1,665
Open Access	9	74	100%	\$0

Half of journals come from societies or government.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Technology	3	479	0%	\$1,381
Medicine	10	437	24%	\$1,153
Earth Sciences	4	156	6%	\$1,512
Physics	2	152	100%	\$0
Anthropology	2	62	100%	\$0
Education	2	62	100%	\$0
Ecology	2	41	90%	\$25
Agriculture	1	39	0%	\$468
Biology	2	39	0%	\$1,027
Religion	1	18	100%	\$0
Language & Literature	2	14	100%	\$0
Arts & Architecture	1	13	100%	\$0
Library Science	1	8	100%	\$0
Psychology	1	6	100%	\$0
Media & Communications	1	5	100%	\$0
Engineering	1	0		
Philosophy	1	0		
Political Science	1	0		

# Malaysia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	74	2,851			\$155	-87%
Fee	14	1,582	55%	-15%	\$280	-85%
No-fee	60	1,269	45%	28%		
Biomed	9	377	13%	-64%	\$137	-92%
Fee	3	267	71%	-7%	\$193	-91%
No-fee	6	110	29%	23%		
STEM	35	1,714	60%	48%	\$190	-86%
Fee	6	1,067	62%	-19%	\$305	-83%
No-fee	29	647	38%	65%		
H&SS	30	760	27%	20%	\$86	-45%
Fee	5	248	33%	34%	\$264	-59%
No-fee	25	512	67%	-11%		

Mostly STEM, most fees are low. 7% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	71	72	74	73	51	49
%No-fee	80%	81%	81%	81%	75%	76%
Articles	2,851	2,180	2,165	1,810	1,346	1,042
%No-fee	45%	58%	58%	58%	47%	58%
Change	31%	1%	20%	34%	29%	

Strong growth returned in 2020.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	3	994	0%	\$315
Med.: 60-149	13	835	46%	\$123
Small: 20-59	30	674	80%	\$40
Smallest: 0-19	28	348	100%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$200-\$599	11	1,408	\$424,971	\$302
\$0.20-\$199	3	174	\$17,270	\$99
No fee	60	1,269		
Total	74	2,851	\$442,241	\$155

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	1	5	2	5	1
No-fee	5	8	7	18	22
Total	6	13	9	23	23

Most journals recent, and most of those no-fee.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	44	1,515	57%	\$109
Open Access	23	1,025	29%	\$225
Society/govt	7	311	37%	\$152

Mostly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Engineering	13	831	22%	\$223
Agriculture	2	438	5%	\$320
Medicine	6	285	28%	\$157
Anthropology	4	185	100%	\$0
Language & Literature	4	166	37%	\$190
Education	3	111	27%	\$177
Technology	1	101	100%	\$0
Ecology	5	93	100%	\$0
Biology	3	92	34%	\$73
Earth Sciences	5	72	100%	\$0
Religion	2	62	0%	\$230
Economics	4	54	100%	\$0
Miscellany	4	53	100%	\$0
Physics	1	46	100%	\$0
History	2	43	100%	\$0
Computer Science	2	40	100%	\$0
Arts & Architecture	2	38	100%	\$0
Other Sciences	2	36	100%	\$0
Zoology	2	34	100%	\$0
Mathematics	2	23	100%	\$0
Political Science	2	22	100%	\$0
Sociology	2	16	100%	\$0

Only seven subjects have any fee-based journals—and only religion has fees for all of its OA journals.

# Nepal

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	23	1,020			\$19	-98%
Fee	4	209	20%	-69%	\$91	-95%
No-fee	19	811	80%	128%		
Biomed	16	896	88%	136%	\$21	-99%
Fee	4	209	23%	-69%	\$91	-96%
No-fee	12	687	77%	222%		
STEM	5	90	9%	-78%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	5	90	100%	338%		
H&SS	2	34	3%	-85%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	2	34	100%	32%		

Predominantly biomed. 21% more journals than in GOA5, and all four fee-based journals are new in GOA6. Very low fees.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	22	22	22	21	21	19
%No-fee	82%	82%	82%	86%	86%	84%
Articles	1,020	751	728	630	699	599
%No-fee	80%	80%	76%	73%	77%	74%
Change	36%	3%	16%	-10%	17%	

Strong growth in 2020.



**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	1	265	100%	\$0
Med.: 60-149	4	285	59%	\$51
Small: 20-59	12	390	81%	\$6
Smallest: 0-19	6	80	76%	\$24

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$0.20-\$199	4	209	\$19,010	\$91
No fee	19	811		
Total	23	1,020	\$19,010	\$19

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	1	1	1	1
No-fee	1	4	4	9	1
Total	1	5	5	10	2

Almost no recent journals.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Society/govt	12	566	90%	\$6
Univ/college	9	372	69%	\$39
Open Access	2	82	55%	\$12

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	15	883	76%	\$22
Agriculture	3	45	100%	\$0
Ecology	1	25	100%	\$0
Other Sciences	1	20	100%	\$0
Sociology	1	19	100%	\$0
Education	1	15	100%	\$0
Biology	1	13	100%	\$0

More than four of every five articles are in medicine, the only subject with fees.

# Pakistan

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	74	3,965			\$131	-89%
Fee	28	2,771	70%	7%	\$188	-90%
No-fee	46	1,194	30%	-14%		
Biomed	22	2,263	57%	53%	\$151	-91%
Fee	14	1,959	87%	14%	\$175	-92%
No-fee	8	304	13%	-44%		
STEM	19	612	15%	-62%	\$87	-94%
Fee	5	350	57%	-26%	\$152	-92%
No-fee	14	262	43%	88%		
H&SS	33	1,090	27%	24%	\$114	-27%
Fee	9	462	42%	74%	\$270	-58%
No-fee	24	628	58%	-24%		

Mostly biomed, most fees are low. 35% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	67	69	70	66	58	53
%No-fee	58%	59%	60%	59%	59%	58%
Articles	3,965	3,102	2,880	2,610	2,297	1,984
%No-fee	30%	33%	30%	29%	29%	29%
Change	28%	8%	10%	14%	16%	

Strong 2020 after some slower-growth years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	4	1,398	0%	\$250
Med.: 60-149	21	1,614	36%	\$75
Small: 20-59	38	863	61%	\$57
Smallest: 0-19	11	90	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	10	1,317	\$429,837	\$326
\$0.20-\$199	18	1,454	\$90,256	\$62
No fee	46	1,194		
Total	74	3,965	\$520,093	\$131

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	6	8	8	4
No-fee	2	2	6	23	13
Total	4	8	14	31	17

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	51	2,063	23%	\$171
Society/govt	10	1,126	15%	\$115
Open Access	13	776	70%	\$49

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	19	1,967	15%	\$131
Economics	9	425	100%	\$0
Biology	3	296	5%	\$284
Religion	9	289	9%	\$146
Education	7	274	30%	\$299
Mathematics	4	126	100%	\$0
Zoology	1	106	0%	\$300
Engineering	2	91	11%	\$41
Sociology	2	81	100%	\$0
Earth Sciences	3	71	15%	\$59
Agriculture	2	61	0%	\$200
Ecology	3	54	100%	\$0
Computer Science	2	50	100%	\$0
Chemistry	1	42	0%	\$31
Other Sciences	1	11	100%	\$0
Psychology	2	11	100%	\$0
Library Science	1	6	0%	\$100
Political Science	1	4	100%	\$0
Language & Literature	1	0		
Miscellany	1	0		

# Philippines

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	11	181			\$4	-100%
Fee	1	8	4%	-93%	\$100	-95%
No-fee	10	173	96%	174%		
Biomed	3	87	48%	29%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	3	87	100%	320%		
STEM	2	19	10%	-74%	\$42	-97%
Fee	1	8	42%	-45%	\$100	-95%
No-fee	1	11	58%	154%		
H&SS	6	75	41%	87%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	6	75	100%	32%		

Only one fee (\$100) journal. 10% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	10	11	11	11	10	9
%No-fee	90%	91%	91%	91%	100%	100%
Articles	181	199	213	194	203	202
%No-fee	96%	96%	97%	91%	100%	100%
Change	-9%	-7%	10%	-4%	0%	

Slow decline for the past two years.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Med.: 60-149	2	49	100%	\$0
Small: 20-59	4	89	100%	\$0
Smallest: 0-19	5	43	81%	\$19

No large or very large journals.

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$0.20-\$199	1	8	\$800	\$100
No fee	10	173		
Total	11	181	\$800	\$4

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	0	0	0	1
No-fee	3	0	2	5	0
Total	3	0	2	5	0

The surge, such as it was, was in 2011-2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Open Access	3	87	100%	\$0
Society/govt	7	86	100%	\$0
Univ/college	1	8	0%	\$100

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	3	87	100%	\$0
Language & Literature	2	26	100%	\$0
Miscellany	2	26	100%	\$0
Philosophy	1	23	100%	\$0
Other Sciences	1	11	100%	\$0
Computer Science	1	8	0%	\$100
Sociology	1	0		



# Singapore

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	18	574			\$695	-42%
Fee	6	301	52%	-19%	\$1,326	-28%
No-fee	12	273	48%	36%		
Biomed	5	304	53%	42%	\$1,282	-20%
Fee	4	290	95%	25%	\$1,344	-36%
No-fee	1	14	5%	-81%		
STEM	7	146	25%	-37%	\$63	-96%
Fee	2	11	8%	-90%	\$836	-54%
No-fee	5	135	92%	305%		
H&SS	6	124	22%	-3%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	6	124	100%	32%		

Mostly no-fee except for biomed. 12% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	18	17	16	13	11	10
%No-fee	67%	71%	69%	62%	73%	70%
Articles	574	525	457	415	318	357
%No-fee	48%	53%	55%	42%	55%	52%
Change	9%	15%	10%	31%	-11%	

Moderate growth for the past three years, shift toward fees.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	208	0%	\$1,500
Med.: 60-149	1	51	0%	\$750
Small: 20-59	12	288	90%	\$118
Smallest: 0-19	4	27	52%	\$552

No very large journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	2	216	\$324,000	\$1,500
\$600-\$1,399	3	80	\$72,150	\$902
\$200-\$599	1	5	\$2,899	\$580
No fee	12	273		
Total	18	574	\$399,049	\$695

As was true in GOA5, there are no nominal-fee journals.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	0	3	3
No-fee	1	1	0	5	5
Total	1	1	0	8	8

Mostly recent.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	12	477	43%	\$773
Univ/college	3	61	100%	\$0
Open Access	3	36	22%	\$847

Surprising strength of traditional publishers (mostly with fees).

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	4	296	5%	\$1,277
Physics	2	64	91%	\$98
Education	2	58	100%	\$0
Computer Science	2	49	100%	\$0
Arts & Architecture	1	30	100%	\$0
Mathematics	2	28	100%	\$0
Language & Literature	1	24	100%	\$0
Biology	1	8	0%	\$1,500
Political Science	1	8	100%	\$0
Technology	1	5	0%	\$580
Library Science	1	4	100%	\$0

# South Korea

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	132	9,024			\$316	-74%
Fee	60	5,511	61%	-6%	\$518	-72%
No-fee	72	3,513	39%	12%		
Biomed	83	5,623	62%	67%	\$248	-85%
Fee	31	2,634	47%	-39%	\$528	-75%
No-fee	52	2,989	53%	123%		
STEM	22	1,691	19%	-54%	\$471	-66%
Fee	16	1,477	87%	13%	\$539	-70%
No-fee	6	214	13%	-45%		
H&SS	27	1,710	19%	-15%	\$389	148%
Fee	13	1,400	82%	236%	\$476	-26%
No-fee	14	310	18%	-76%		

Mostly biomed (and a majority of that no-fee), relatively low-cost. 13% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	130	129	126	123	117	108
%No-fee	54%	53%	53%	53%	51%	52%
Articles	9,024	7,278	7,124	6,910	6,874	5,923
%No-fee	39%	43%	43%	42%	39%	41%
Change	24%	2%	3%	1%	16%	

Strong growth in 2020 after three slow years.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	1	938	0%	\$508
Large: 150-599	12	2,107	19%	\$523
Med.: 60-149	46	3,655	46%	\$245
Small: 20-59	65	2,231	61%	\$164
Smallest: 0-19	8	93	90%	\$116

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	2	136	\$219,990	\$1,618
\$600-\$1,399	16	1,580	\$1,238,063	\$784
\$200-\$599	31	3,217	\$1,336,889	\$416
\$0.20-\$199	11	578	\$58,391	\$101
No fee	72	3,513		
Total	132	9,024	\$2,853,333	\$316

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	24	9	10	15	2
No-fee	17	8	12	28	7
Total	41	17	22	43	9

Lots of fairly early journals and strong growth 2011-2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Society/govt	82	5,849	42%	\$291
Univ/college	24	1,090	47%	\$240
Traditional	14	1,053	29%	\$402
Open Access	12	1,032	24%	\$454

Societies do most of the OA publishing.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	80	5,455	54%	\$244
Economics	8	1,204	4%	\$489
Physics	2	524	0%	\$400
Zoology	5	488	0%	\$779
Agriculture	4	282	0%	\$469
Biology	3	168	27%	\$349
Engineering	2	137	100%	\$0
Language & Literature	3	120	100%	\$0
Earth Sciences	3	101	22%	\$364
Ecology	3	101	34%	\$110
Education	4	101	23%	\$309
Political Science	3	68	66%	\$101
Psychology	1	53	0%	\$339
Anthropology	3	51	43%	\$310
History	2	41	39%	\$52
Library Science	2	38	100%	\$0
Computer Science	2	37	0%	\$696
Media & Communications	1	34	0%	\$70
Chemistry	1	21	100%	\$0

More than 60% medicine.

# Sri Lanka

All no-fee journals.

## Key facts

	Journals	Articles	Art%	Rel%
All	15	456		
Biomed	6	266	58%	57%
STEM	6	164	36%	-11%
H&SS	3	26	6%	-74%

Heavy on biomed, very little H&SS. Same journal count as GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	13	14	15	15	15	14
Articles	456	395	425	467	333	357
Change	15%	-7%	-9%	40%	-7%	

Continues to be volatile within a fairly narrow range.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Med.: 60-149	3	188	26%	63
Small: 20-59	7	225	31%	32
Smallest: 0-19	5	43	6%	9

No large journals.

**Starting date**

	To 2000	2001-05	2006-10	2011-15
Journals	1	1	6	7

No new journals since 2015.

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Univ/college	11	404	89%	37
Society/govt	3	52	11%	17
Open Access	1	0	0%	0

Another country where universities publish most OA.

**Subject**

Subject	Journals	Articles	Art/Jrn
Medicine	6	266	44
Agriculture	2	79	40
Other Sciences	2	69	35
Law	1	14	14
Ecology	1	12	12
Economics	1	12	12
Computer Science	1	4	4
Sociology	1	0	0

In this case, “mostly biomed” means “mostly medicine.”



# Taiwan

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	31	1,550			\$324	-73%
Fee	8	795	51%	-21%	\$631	-66%
No-fee	23	755	49%	40%		
Biomed	8	660	43%	14%	\$407	-75%
Fee	3	245	37%	-51%	\$1,097	-48%
No-fee	5	415	63%	164%		
STEM	9	640	41%	2%	\$280	-80%
Fee	3	466	73%	-6%	\$385	-79%
No-fee	6	174	27%	19%		
H&SS	14	250	16%	-27%	\$214	36%
Fee	2	84	34%	38%	\$637	-1%
No-fee	12	166	66%	-12%		

3% fewer journals than in GOA5—that is, one less.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	30	31	31	31	30	30
%No-fee	73%	74%	74%	74%	73%	73%
Articles	1,550	1,471	1,602	1,677	1,557	1,407
%No-fee	49%	50%	54%	50%	55%	57%
Change	5%	-8%	-4%	8%	11%	

Fairly flat. Drifting slowly toward fees.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	5	782	26%	\$404
Med.: 60-149	5	386	67%	\$341
Small: 20-59	11	269	69%	\$199
Smallest: 0-19	10	113	93%	\$2

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	3	278	\$317,740	\$1,143
\$200-\$599	3	466	\$179,313	\$385
\$0.20-\$199	2	51	\$4,571	\$90
No fee	23	755		
Total	31	1,550	\$501,624	\$324

No very expensive journals.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	1	3	2	1
No-fee	7	7	2	7	0
Total	8	8	5	9	1

Not much in recent years.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	15	705	33%	\$236
Traditional	5	546	64%	\$372
Society/govt	8	226	44%	\$583
Open Access	3	73	100%	\$0

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	8	660	63%	\$407
Ecology	2	327	26%	\$223
Other Sciences	1	180	0%	\$496
Education	5	88	51%	\$49
Political Science	2	76	46%	\$647
Technology	2	46	100%	\$0
Earth Sciences	1	43	0%	\$400
Library Science	3	33	100%	\$0
Engineering	1	24	100%	\$0
Media & Communications	1	21	100%	\$0
Mathematics	1	20	100%	\$0
Law	1	16	100%	\$0
Economics	1	8	100%	\$0
Language & Literature	1	8	100%	\$0
Computer Science	1	0		

# Thailand

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	27	909			\$31	-97%
Fee	5	156	17%	-74%	\$183	-90%
No-fee	22	753	83%	137%		
Biomed	5	183	20%	-46%	\$20	-99%
Fee	1	36	20%	-74%	\$100	-95%
No-fee	4	147	80%	238%		
STEM	17	669	74%	81%	\$37	-97%
Fee	3	120	18%	-77%	\$208	-89%
No-fee	14	549	82%	259%		
H&SS	5	57	6%	-72%	\$0	-100%
Fee	1	0	0%	-100%	\$0	-100%
No-fee	4	57	100%	32%		

Mostly STEM, relatively few fees. 4% fewer journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	23	25	25	25	24	23
%No-fee	83%	80%	80%	80%	79%	78%
Articles	909	895	958	967	885	779
%No-fee	83%	69%	69%	73%	73%	69%
Change	2%	-7%	-1%	9%	14%	

Flat to slightly down—and tending toward even more no-fee.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	182	100%	\$0
Med.: 60-149	8	337	72%	\$60
Small: 20-59	14	339	82%	\$25
Smallest: 0-19	4	51	100%	\$0

The large journal's no-fee.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	2	70	\$18,600	\$266
\$0.20-\$199	3	86	\$9,993	\$116
No fee	22	753		
Total	27	909	\$28,593	\$31

The priciest journals have \$300 and \$200 fees.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	0	3	1	0
No-fee	1	5	2	13	1
Total	2	5	5	14	1

Strong rate of new journals 2011-2015 seems to have stalled since.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	24	818	87%	\$18
Society/govt	2	66	30%	\$209
Open Access	1	25	100%	\$0

Universities publish the most, societies charge the most.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Other Sciences	9	455	84%	\$25
Medicine	5	183	80%	\$20
Ecology	2	82	44%	\$168
Engineering	3	69	100%	\$0
Agriculture	2	43	100%	\$0
Law	1	25	100%	\$0
Zoology	1	20	100%	\$0
Anthropology	1	14	100%	\$0
Philosophy	1	12	100%	\$0
Political Science	1	6	100%	\$0
Education	1	0		

Only ecology has enough fees to amount to much.

## Other Asian Countries

Three countries with ten journals, including two fee journals.

### Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	10	277			\$18	-99%
Fee	2	86	31%	-52%	\$58	-97%
No-fee	8	191	69%	98%		
Biomed	3	105	38%	2%	\$28	-98%
Fee	1	38	36%	-53%	\$76	-96%
No-fee	2	67	64%	168%		
STEM	4	95	34%	-16%	\$22	-98%
Fee	1	48	51%	-35%	\$43	-98%
No-fee	3	47	49%	117%		
H&SS	3	77	28%	25%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	3	77	100%	32%		

Even the two fee journals have very low fees.

### Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	10	10	10	10	7	6
%No-fee	80%	80%	80%	80%	86%	83%
Articles	277	279	303	350	186	87
%No-fee	69%	67%	66%	71%	83%	84%
Change	-1%	-8%	-13%	88%	114%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	3	124	61%	\$17
Small: 20-59	4	120	68%	\$24
Smallest: 0-19	3	33	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$0.20-\$199	2	86	\$4,954	\$58
No fee	8	191		
Total	10	277	\$4,954	\$18

**Starting date**

	2006-10	2011-15	2016-20
Fee	0	1	1
No-fee	1	5	2
Total	1	6	3

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	10	277	69%	\$18

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Medicine	2	89	57%	\$32
Miscellany	2	65	100%	\$0
Other Sciences	1	48	0%	\$43
Engineering	1	22	100%	\$0
Computer Science	1	20	100%	\$0
Biology	1	16	100%	\$0
Economics	1	12	100%	\$0
Chemistry	1	5	100%	\$0



## **Country Summaries**

### **Kyrgyzstan**

Three no-fee journals (one in each segment), 85 articles in 2020.

### **Mongolia**

Four journals including one \$76 journal; 84 2020 articles.

### **Viet Nam**

Two no-fee journals and one \$43 journal. 108 articles in 2020.

# Eastern Europe

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	2,677	100,487			\$106	-91%
Fee	578	34,735	35%	-47%	\$305	-83%
No-fee	2,099	65,752	65%	88%		
Biomed	396	20,063	20%	-46%	\$153	-90%
Fee	119	7,615	38%	-50%	\$403	-81%
No-fee	277	12,448	62%	161%		
STEM	888	35,045	35%	-14%	\$158	-89%
Fee	225	13,198	38%	-51%	\$421	-77%
No-fee	663	21,847	62%	173%		
H&SS	1,393	45,379	45%	104%	\$44	-72%
Fee	234	13,922	31%	26%	\$143	-78%
No-fee	1,159	31,457	69%	-8%		

Two-thirds no-fee, heavy on H&SS, most fees modest. 11% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	2,428	2,554	2,539	2,442	2,334	2,139
%No-fee	77%	78%	79%	79%	80%	80%
Articles	100,487	101,780	101,933	100,922	98,017	93,774
%No-fee	65%	68%	69%	70%	68%	69%
Change	-1%	0%	1%	3%	5%	

Basically flat since 2016.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	10	3,399	22%	\$72
Large: 150-599	130	18,170	43%	\$211
Med.: 60-149	652	38,972	63%	\$117
Small: 20-59	1,445	36,511	80%	\$51
Smallest: 0-19	440	3,435	91%	\$30

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	5	414	\$846,556	\$2,045
\$600-\$1,399	66	5,371	\$4,858,062	\$904
\$200-\$599	160	10,123	\$3,556,078	\$351
\$0.20-\$199	347	18,827	\$1,344,002	\$71
No fee	2,099	65,752		
Total	2,677	100,487	\$10,604,698	\$106

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	29	71	119	256	103
No-fee	148	297	471	966	217
Total	177	368	590	1,222	320

New journals still frequent, but not nearly as many as in 2011-2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	1,742	63,879	72%	\$49
Open Access	307	16,620	45%	\$200
Traditional	391	10,444	58%	\$305
Society/govt	235	9,502	63%	\$100

Universities dominate OA publishing

# **Subject**

Subject	Journals	Articles	%No-fee	\$/article
Medicine	332	17,532	64%	\$150
Economics	275	9,469	49%	\$86
Agriculture	131	6,543	60%	\$144
Engineering	142	6,183	57%	\$187
Language & Literature	189	5,280	90%	\$15
Anthropology	142	4,910	52%	\$65
Sociology	95	4,351	62%	\$35
Political Science	124	4,220	84%	\$9
Earth Sciences	130	3,489	82%	\$72
History	94	3,206	81%	\$37
Computer Science	88	3,088	83%	\$66
Ecology	89	3,070	46%	\$221
Education	90	2,760	62%	\$45
Biology	64	2,531	48%	\$171
Mathematics	88	2,495	79%	\$135
Other Sciences	34	2,464	38%	\$184
Law	80	2,288	85%	\$15
Zoology	54	2,233	38%	\$323
Philosophy	71	2,191	90%	\$27
Technology	55	2,135	67%	\$83
Chemistry	45	2,022	60%	\$241
Arts & Architecture	64	1,748	78%	\$47
Miscellany	38	1,464	60%	\$24
Psychology	43	1,440	69%	\$37
Physics	32	1,323	85%	\$109
Religion	30	959	87%	\$68
Media & Communications	30	611	87%	\$12
Library Science	28	482	97%	\$1

**Country of publication**

<b>Country</b>	<b>Journals</b>	<b>Articles</b>	<b>%no-fee</b>	<b>\$/article</b>
Albania	5	88	27%	\$144
Armenia	3	87	36%	\$257
Azerbaijan	2	24	100%	\$0
Belarus	16	752	93%	\$10
Bosnia and Herzegovina	26	886	72%	\$128
Bulgaria	73	3,985	28%	\$337
Croatia	125	3,511	83%	\$97
Cyprus	2	79	100%	\$0
Czechia	124	3,267	67%	\$166
Estonia	29	957	43%	\$154
Georgia	3	121	100%	\$0
Hungary	38	989	93%	\$71
Kazakhstan	4	173	68%	\$53
Latvia	13	460	46%	\$399
Lithuania	84	2,320	51%	\$322
Moldova	35	1,313	59%	\$38
Montenegro	9	492	61%	\$73
North Macedonia	11	348	70%	\$12
Poland	653	19,938	58%	\$212
Romania	335	11,655	59%	\$74
Russia	433	25,158	85%	\$33
Serbia	200	5,756	75%	\$60
Slovakia	48	1,088	72%	\$53
Slovenia	57	1,516	93%	\$38
Turkmenistan	1	8	100%	\$0
Ukraine	348	15,516	47%	\$37

# Belarus

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	16	752			\$10	-99%
Fee	1	52	7%	-89%	\$150	-92%
No-fee	15	700	93%	167%		
Biomed	1	112	15%	-60%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	1	112	100%	320%		
STEM	10	459	61%	50%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	10	459	100%	338%		
H&SS	5	181	24%	9%	\$43	-73%
Fee	1	52	29%	18%	\$150	-77%
No-fee	4	129	71%	-6%		

Light in biomed, heavy in STEM—and both all no-fee. One fee journal, in H&SS. 45% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	16	16	16	16	12	12
%No-fee	94%	94%	94%	94%	100%	100%
Articles	752	907	914	811	757	754
%No-fee	93%	89%	89%	96%	100%	100%
Change	-17%	-1%	13%	7%	0%	

Down significantly, to lowest point in past six years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	101	100%	\$0
Med.: 60-149	5	341	85%	\$23
Small: 20-59	10	310	100%	\$0

No very large or very small journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$0.20-\$199	1	52	\$7,800	\$150
No fee	15	700		
Total	16	752	\$7,800	\$10

The single fee journal had a lot fewer articles in 2020.

**Starting date**

	2001-05	2006-10	2011-15	2016-20
Fee	0	0	0	1
No-fee	2	3	7	3
Total	2	3	7	4

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	13	568	91%	\$14
Open Access	2	152	100%	\$0
Society/govt	1	32	100%	\$0

University publishing dominates.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Engineering	3	141	100%	\$0
Economics	3	113	54%	\$69
Medicine	1	112	100%	\$0
Technology	1	101	100%	\$0
Computer Science	3	100	100%	\$0
Other Sciences	1	64	100%	\$0
History	1	49	100%	\$0
Mathematics	1	36	100%	\$0
Anthropology	1	19	100%	\$0
Earth Sciences	1	17	100%	\$0



# Bosnia and Herzegovina

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	26	886			\$128	-89%
Fee	7	250	28%	-57%	\$453	-75%
No-fee	19	636	72%	106%		
Biomed	9	300	34%	-9%	\$355	-78%
Fee	4	180	60%	-21%	\$591	-72%
No-fee	5	120	40%	68%		
STEM	5	269	30%	-25%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	5	269	100%	338%		
H&SS	12	317	36%	61%	\$22	-86%
Fee	3	70	22%	-9%	\$98	-85%
No-fee	9	247	78%	3%		

Mostly no-fee, with no STEM fees at all. 13% more journals than GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	24	25	24	23	22	21
%No-fee	75%	72%	75%	74%	73%	71%
Articles	886	832	610	577	490	484
%No-fee	72%	75%	74%	73%	67%	67%
Change	6%	36%	6%	18%	1%	

No down years, and big gain in 2019.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	223	100%	\$0
Med.: 60-149	4	283	47%	\$345
Small: 20-59	17	348	71%	\$45
Smallest: 0-19	4	32	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	1	65	\$73,689	\$1,134
\$200-\$599	2	115	\$32,757	\$285
\$0.20-\$199	4	70	\$6,836	\$98
No fee	19	636		
Total	26	886	\$113,282	\$128

One moderately expensive journal.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	2	0	3	2
No-fee	1	2	5	7	4
Total	1	4	5	10	6

New journals continue to pop up with some frequency.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	21	661	85%	\$24
Society/govt	5	225	34%	\$434

Another case where universities publish more and societies charge more.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	8	289	38%	\$368
Engineering	3	236	100%	\$0
Sociology	2	111	100%	\$0
Economics	3	66	24%	\$86
Language & Literature	2	42	100%	\$0
Miscellany	2	40	50%	\$28
Zoology	1	26	100%	\$0
History	1	22	100%	\$0
Anthropology	1	19	100%	\$0
Law	1	17	100%	\$0
Biology	1	11	100%	\$0

# Bulgaria

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	73	3,985			\$337	-72%
Fee	38	2,854	72%	10%	\$471	-75%
No-fee	35	1,131	28%	-19%		
Biomed	16	1,222	31%	-18%	\$267	-83%
Fee	9	977	80%	5%	\$334	-84%
No-fee	7	245	20%	-16%		
STEM	38	2,208	55%	36%	\$455	-68%
Fee	25	1,691	77%	-1%	\$594	-67%
No-fee	13	517	23%	3%		
H&SS	19	555	14%	-37%	\$26	-83%
Fee	4	186	34%	37%	\$78	-88%
No-fee	15	369	66%	-12%		

Mostly STEM, slightly more fee-based than average. 22% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	72	68	61	60	53	44
%No-fee	49%	49%	49%	48%	49%	50%
Articles	3,985	3,144	2,555	2,612	2,672	2,052
%No-fee	28%	31%	32%	32%	29%	42%
Change	27%	23%	-2%	-2%	30%	

Second year of strong growth after two flat years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	7	1,972	13%	\$457
Med.: 60-149	11	723	27%	\$331
Small: 20-59	38	1,080	47%	\$171
Smallest: 0-19	17	210	78%	\$94

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	8	1,192	\$953,030	\$800
\$200-\$599	18	880	\$314,531	\$357
\$0.20-\$199	12	782	\$77,195	\$99
No fee	35	1,131		
Total	73	3,985	\$1,344,757	\$337

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	3	5	19	10
No-fee	0	4	4	16	11
Total	1	7	9	35	21

Strong on new journals in 2011-2020, which is unusual.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Open Access	39	2,421	12%	\$494
Univ/college	24	924	84%	\$10
Society/govt	9	603	11%	\$222
Traditional	1	37	0%	\$137

Predominantly open access fee publishers, which is unusual.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Zoology	13	978	10%	\$650
Medicine	7	685	25%	\$220
Other Sciences	4	570	48%	\$59
Biology	9	537	14%	\$326
Agriculture	4	372	17%	\$687
Economics	5	209	29%	\$45
Ecology	9	183	9%	\$338
Anthropology	3	88	58%	\$57
Education	2	63	100%	\$0
Philosophy	2	62	100%	\$0
Language & Literature	3	56	100%	\$0
History	2	52	100%	\$0
Technology	2	40	100%	\$0
Earth Sciences	2	34	35%	\$332
Sociology	1	25	100%	\$0
Computer Science	2	14	86%	\$8
Mathematics	1	12	0%	\$477
Physics	1	5	100%	\$0
Miscellany	1	0		

# Croatia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	125	3,511			\$97	-92%
Fee	7	590	17%	-74%	\$578	-69%
No-fee	118	2,921	83%	138%		
Biomed	14	502	14%	-62%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	14	502	100%	320%		
STEM	33	1,360	39%	-5%	\$241	-83%
Fee	5	550	40%	-48%	\$596	-67%
No-fee	28	810	60%	161%		
H&SS	78	1,649	47%	112%	\$8	-95%
Fee	2	40	2%	-90%	\$331	-49%
No-fee	76	1,609	98%	29%		

Predominantly no-fee. 3.3% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	115	121	121	119	117	112
%No-fee	94%	94%	94%	94%	94%	94%
Articles	3,511	3,568	3,559	3,598	3,801	3,625
%No-fee	83%	85%	83%	85%	83%	84%
Change	-2%	0%	-1%	-5%	5%	

Slow downward drift since 2016 continues.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	2	402	0%	\$628
Med.: 60-149	18	1,006	93%	\$46
Small: 20-59	77	1,861	93%	\$23
Smallest: 0-19	28	242	100%	\$0

No very large, and only the large are entirely fee.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1.399	2	205	\$148,005	\$722
\$200-\$599	5	385	\$192,965	\$501
No fee	118	2,921		
Total	125	3,511	\$340,969	\$97

No nominal fees (\$0.01-\$199).

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	4	0	3	0
No-fee	32	30	22	27	7
Total	32	34	22	30	7

Fairly typical distinct slowdown in new journals since 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	87	2,374	82%	\$99
Society/govt	30	900	83%	\$119
Traditional	4	161	100%	\$0
Open Access	3	58	100%	\$0

Predominantly universities.



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Engineering	6	638	22%	\$486
Medicine	14	502	100%	\$0
Economics	17	310	87%	\$43
Law	8	208	100%	\$0
Agriculture	5	191	100%	\$0
Language & Literature	9	191	100%	\$0
Chemistry	5	189	100%	\$0
Political Science	5	144	100%	\$0
Anthropology	7	139	100%	\$0
History	7	131	100%	\$0
Philosophy	3	111	100%	\$0
Ecology	3	109	52%	\$163
Earth Sciences	6	95	100%	\$0
Psychology	2	93	100%	\$0
Sociology	3	82	100%	\$0
Miscellany	4	59	100%	\$0
Arts & Architecture	6	57	100%	\$0
Media & Communications	3	56	100%	\$0
Mathematics	3	53	100%	\$0
Computer Science	2	39	100%	\$0
Religion	1	33	100%	\$0
Zoology	1	28	100%	\$0
Library Science	2	23	100%	\$0
Technology	2	18	100%	\$0
Education	1	12	100%	\$0
Engineering	6	638	22%	\$486

Engineering accounts for 91% of all fees.

# Czechia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	124	3,267			\$166	-86%
Fee	21	1,067	33%	-50%	\$507	-73%
No-fee	103	2,200	67%	93%		
Biomed	10	366	11%	-70%	\$544	-66%
Fee	4	262	72%	-6%	\$760	-64%
No-fee	6	104	28%	19%		
STEM	37	1,293	40%	-3%	\$244	-83%
Fee	14	721	56%	-28%	\$437	-76%
No-fee	23	572	44%	94%		
H&SS	77	1,608	49%	122%	\$17	-89%
Fee	3	84	5%	-79%	\$323	-50%
No-fee	74	1,524	95%	25%		

Two-thirds no-fee, heavy on H&SS, light on biomed, low cost. 13% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	114	122	120	121	117	112
%No-fee	82%	83%	84%	84%	85%	84%
Articles	3,267	3,487	3,526	3,810	3,504	3,564
%No-fee	67%	67%	68%	71%	70%	69%
Change	-6%	-1%	-7%	9%	-2%	

Three years of gradual declines.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	2	229	41%	\$672
Med.: 60-149	17	1,051	41%	\$265
Small: 20-59	79	1,753	82%	\$62
Smallest: 0-19	26	234	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	2	244	\$239,508	\$982
\$200-\$599	15	702	\$289,276	\$412
\$0.20-\$199	4	121	\$12,220	\$101
No fee	103	2,200		
Total	124	3,267	\$541,004	\$166

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	3	7	7	1	3
No-fee	6	17	23	49	8
Total	9	24	30	50	11

Few new journals since 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	105	2,875	67%	\$175
Society/govt	6	152	100%	\$0
Traditional	9	147	78%	\$24
Open Access	4	93	18%	\$372

Another country where university publishing predominates.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Agriculture	12	621	30%	\$315
Medicine	9	350	25%	\$569
Language & Literature	12	328	100%	\$0
Engineering	6	276	72%	\$125
Political Science	10	211	100%	\$0
Economics	12	195	67%	\$128
Anthropology	12	183	100%	\$0
Education	8	182	89%	\$12
Zoology	2	121	0%	\$365
Sociology	4	115	100%	\$0
History	5	110	100%	\$0
Mathematics	4	108	100%	\$0
Philosophy	6	103	100%	\$0
Religion	2	66	100%	\$0
Psychology	4	60	100%	\$0
Earth Sciences	4	57	47%	\$192
Physics	1	50	0%	\$547
Law	1	38	100%	\$0
Computer Science	4	33	67%	\$76
Ecology	2	23	100%	\$0
Arts & Architecture	1	17	100%	\$0
Biology	1	16	100%	\$0
Technology	2	4	100%	\$0

Agriculture the largest subject, medicine most expensive.

# Estonia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	29	957			\$154	-87%
Fee	9	550	57%	-12%	\$268	-85%
No-fee	20	407	43%	22%		
Biomed	3	134	14%	-62%	\$111	-93%
Fee	3	134	100%	31%	\$111	-95%
No-fee	0	0	0%	-100%		
STEM	8	455	48%	17%	\$281	-80%
Fee	5	373	82%	6%	\$342	-81%
No-fee	3	82	18%	-21%		
H&SS	18	368	38%	73%	\$13	-92%
Fee	1	43	12%	-52%	\$114	-82%
No-fee	17	325	88%	17%		

Low-fee, and very different from GOA5. 26% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	28	28	29	27	25	20
%No-fee	68%	68%	69%	67%	72%	85%
Articles	957	926	885	883	763	543
%No-fee	43%	45%	42%	41%	41%	58%
Change	3%	5%	0%	16%	41%	

Slow growth since 2017.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	234	0%	\$342
Med.: 60-149	4	202	16%	\$206
Small: 20-59	19	472	69%	\$55
Smallest: 0-19	5	49	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	4	351	\$125,787	\$358
\$0.20-\$199	5	199	\$21,648	\$109
No fee	20	407		
Total	29	957	\$147,435	\$154

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	1	2	4	2
No-fee	3	1	8	6	2
Total	3	2	10	10	4

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	15	539	46%	\$208
Open Access	9	325	20%	\$109
Society/govt	4	61	100%	\$0
Traditional	1	32	100%	\$0

Mostly university.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Agriculture	3	295	21%	\$271
Language & Literature	6	138	100%	\$0
Medicine	2	88	0%	\$109
Miscellany	2	67	36%	\$73
Engineering	1	61	0%	\$228
Anthropology	3	56	100%	\$0
Biology	1	46	0%	\$114
Technology	2	43	49%	\$44
Other Sciences	1	34	0%	\$570
Economics	1	33	100%	\$0
Education	1	23	100%	\$0
Earth Sciences	1	22	0%	\$570
History	2	18	100%	\$0
Law	1	15	100%	\$0
Political Science	1	15	100%	\$0
Philosophy	1	3	100%	\$0

# Hungary

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	38	989			\$71	-94%
Fee	1	73	7%	-89%	\$968	-48%
No-fee	37	916	93%	165%		
Biomed	3	79	8%	-79%	\$895	-44%
Fee	1	73	92%	21%	\$968	-54%
No-fee	2	6	8%	-68%		
STEM	19	608	61%	51%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	19	608	100%	338%		
H&SS	16	302	31%	38%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	16	302	100%	32%		

One fee journal; most articles are in STEM, none with fees. 12% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	33	37	37	33	34	30
%No-fee	97%	97%	97%	97%	97%	97%
Articles	989	1,198	1,173	1,085	1,120	874
%No-fee	93%	93%	88%	92%	93%	94%
Change	-17%	2%	8%	-3%	28%	

Down in 2020 after three relatively flat years.



**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	7	440	83%	\$161
Small: 20-59	22	467	100%	\$0
Smallest: 0-19	9	82	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	1	73	\$70,698	\$968
No fee	37	916		
Total	38	989	\$70,698	\$71

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	0	1	0
No-fee	8	2	12	12	3
Total	8	2	12	13	3

Few new journals in recent years.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	26	662	100%	\$0
Open Access	5	175	58%	\$404
Society/govt	5	109	100%	\$0
Traditional	2	43	100%	\$0

Mostly universities, but the fee journal is an OA publisher.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Engineering	4	155	100%	\$0
Technology	1	96	100%	\$0
Mathematics	1	91	100%	\$0
Chemistry	2	89	100%	\$0
History	2	82	100%	\$0
Medicine	3	79	8%	\$895
Sociology	2	68	100%	\$0
Ecology	4	59	100%	\$0
Agriculture	3	47	100%	\$0
Language & Literature	6	44	100%	\$0
Miscellany	1	43	100%	\$0
Zoology	1	35	100%	\$0
Earth Sciences	2	33	100%	\$0
Arts & Architecture	1	21	100%	\$0
Economics	1	18	100%	\$0
Media & Communications	1	14	100%	\$0
Political Science	1	12	100%	\$0
Physics	1	3	100%	\$0
Anthropology	1	0		

# Latvia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	13	460			\$399	-67%
Fee	4	247	54%	-18%	\$743	-60%
No-fee	9	213	46%	33%		
Biomed	1	30	7%	-82%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	1	30	100%	320%		
STEM	6	213	46%	14%	\$294	-79%
Fee	2	105	49%	-36%	\$597	-67%
No-fee	4	108	51%	122%		
H&SS	6	217	47%	113%	\$557	254%
Fee	2	142	65%	168%	\$851	32%
No-fee	4	75	35%	-54%		

No fees in biomed. 18% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	13	12	12	11	12	11
%No-fee	69%	75%	75%	73%	75%	73%
Articles	460	487	556	421	452	287
%No-fee	46%	43%	38%	51%	54%	66%
Change	-6%	-12%	32%	-7%	57%	

Second down year after a strong 2018.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	1	102	0%	\$1,139
Med.: 60-149	2	105	0%	\$597
Small: 20-59	9	250	84%	\$18
Smallest: 0-19	1	3	100%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$600-\$1,399	2	146	\$166,349	\$1,139
\$200-\$599	1	61	\$12,510	\$205
\$0.20-\$199	1	40	\$4,558	\$114
No fee	9	213		
Total	13	460	\$183,417	\$399

The two fairly expensive journals account for 91% of revenue.

**Starting date**

	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	2	1	1
No-fee	1	3	4	1
Total	1	5	5	2

All this millennium, mostly 2006-2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Traditional	6	166	63%	\$75
Univ/college	5	152	71%	\$330
Open Access	2	142	0%	\$851

Atypically, traditional publishers charge the least.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Economics	3	160	11%	\$755
Computer Science	2	63	30%	\$796
Other Sciences	1	61	0%	\$205
Engineering	1	52	100%	\$0
Physics	1	34	100%	\$0
Biology	1	30	100%	\$0
Sociology	1	26	100%	\$0
Education	1	24	100%	\$0
History	1	7	100%	\$0

Only three subjects have any fees.

# Lithuania

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	84	2,320			\$322	-73%
Fee	20	1,147	49%	-24%	\$651	-65%
No-fee	64	1,173	51%	45%		
Biomed	5	75	3%	-91%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	5	75	100%	320%		
STEM	22	1,019	44%	8%	\$543	-61%
Fee	10	738	72%	-6%	\$749	-59%
No-fee	12	281	28%	21%		
H&SS	57	1,226	53%	138%	\$158	0%
Fee	10	409	33%	37%	\$473	-27%
No-fee	47	817	67%	-12%		

Bare majority no-fee and H&SS; no biomed fees. 14% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	70	77	77	77	78	75
%No-fee	74%	77%	75%	77%	77%	79%
Articles	2,320	2,369	2,473	2,548	2,648	2,330
%No-fee	51%	55%	55%	56%	59%	70%
Change	-2%	-4%	-3%	-4%	14%	

Continued slow decline and slow shift toward fees.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	2	434	0%	\$855
Med.: 60-149	14	800	40%	\$350
Small: 20-59	50	1,040	78%	\$91
Smallest: 0-19	18	46	93%	\$11

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	8	716	\$567,751	\$793
\$200-\$599	8	422	\$177,868	\$421
\$0.20-\$199	4	9	\$855	\$95
No fee	64	1,173		
Total	84	2,320	\$746,473	\$322

In GOA5 only one journal charged more than \$599; now seven do, and the overall average fee is \$96 higher—42% higher.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	3	0	6	10
No-fee	3	12	18	22	9
Total	4	15	18	28	19

Continued strong new-journal activity, albeit not *quite* as strong.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	72	1,732	62%	\$198
Open Access	10	587	15%	\$689
Society/govt	1	1	100%	\$0
Traditional	1	0		

Universities publish the most, but OA publishers have the revenue.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Economics	11	417	14%	\$416
Ecology	4	393	0%	\$770
Engineering	5	316	2%	\$744
Language & Literature	12	196	100%	\$0
Mathematics	6	152	90%	\$22
Education	4	140	100%	\$0
Law	4	92	100%	\$0
Political Science	4	90	44%	\$222
Medicine	5	75	100%	\$0
Sociology	9	69	100%	\$0
Agriculture	1	48	100%	\$0
Earth Sciences	3	47	100%	\$0
Philosophy	1	46	100%	\$0
Other Sciences	1	42	100%	\$0
Arts & Architecture	2	41	100%	\$0
Media & Communications	2	28	100%	\$0
Library Science	2	26	100%	\$0
History	1	23	100%	\$0
Religion	1	20	100%	\$0
Technology	1	18	0%	\$627
Anthropology	1	16	100%	\$0
Miscellany	1	11	100%	\$0
Psychology	2	11	100%	\$0
Computer Science	1	3	0%	\$171



# Moldova

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	35	1,313			\$38	-97%
Fee	11	537	41%	-37%	\$92	-95%
No-fee	24	776	59%	69%		
Biomed	3	182	14%	-63%	\$222	-86%
Fee	3	182	100%	31%	\$222	-89%
No-fee	0	0	0%	-100%		
STEM	7	302	23%	-43%	\$2	-100%
Fee	1	42	14%	-82%	\$14	-99%
No-fee	6	260	86%	277%		
H&SS	25	829	63%	185%	\$10	-94%
Fee	7	313	38%	55%	\$27	-96%
No-fee	18	516	62%	-18%		

Mostly H&SS, mostly no-fee, mostly very small fees if any. 17% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	33	33	33	30	28	27
%No-fee	67%	70%	70%	67%	75%	74%
Articles	1,313	1,264	1,383	1,135	1,130	1,201
%No-fee	59%	68%	63%	64%	68%	67%
Change	4%	-9%	22%	0%	-6%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	15	793	45%	\$58
Small: 20-59	19	520	80%	\$6
Smallest: 0-19	1	0		

No large journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	72	\$31,314	\$435
\$0.20-\$199	10	465	\$18,196	\$39
No fee	24	776		
Total	35	1,313	\$49,510	\$38

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	1	5	3	2
No-fee	1	8	4	8	3
Total	1	9	9	11	5

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	26	866	62%	\$8
Society/govt	8	376	64%	\$106
Open Access	1	71	0%	\$44

Not unusual: mostly universities, but fees are mostly society.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Sociology	4	179	61%	\$6
Medicine	2	134	0%	\$297
Engineering	2	128	100%	\$0
Anthropology	4	121	100%	\$0
Economics	4	93	55%	\$26
Miscellany	2	87	84%	\$3
History	2	79	34%	\$10
Arts & Architecture	2	71	0%	\$44
Education	1	64	0%	\$14
Psychology	2	63	100%	\$0
Biology	1	48	0%	\$14
Zoology	1	46	100%	\$0
Law	2	44	100%	\$0
Technology	1	44	100%	\$0
Other Sciences	1	42	0%	\$14
Political Science	1	28	100%	\$0
Computer Science	1	22	100%	\$0
Chemistry	1	20	100%	\$0
Language & Literature	1	0		

# Montenegro

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	9	492			\$73	-94%
Fee	2	194	39%	-39%	\$185	-90%
No-fee	7	298	61%	74%		
Biomed	0	0	0%	-100%	\$0	-100%
STEM	2	223	45%	12%	\$103	-93%
Fee	1	134	60%	-22%	\$171	-91%
No-fee	1	89	40%	75%		
H&SS	7	269	55%	147%	\$48	-69%
Fee	1	60	22%	-9%	\$216	-66%
No-fee	6	209	78%	3%		

No biomed, more H&SS than STEM, mostly no-fee. Same journal count as in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	7	9	9	9	7	7
%No-fee	71%	78%	78%	78%	71%	71%
Articles	492	446	426	362	341	321
%No-fee	61%	65%	75%	77%	72%	68%
Change	10%	5%	18%	6%	6%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	6	471	59%	\$76
Small: 20-59	1	21	100%	\$0
Smallest: 0-19	2	0		

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	60	\$12,989	\$216
\$0.20-\$199	1	134	\$22,901	\$171
No fee	7	298		
Total	9	492	\$35,890	\$73

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	1	0	1	0
No-fee	1	1	1	2	2
Total	1	2	1	3	2

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	9	492	61%	\$73

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Economics	2	148	100%	\$0
Ecology	1	134	0%	\$171
Anthropology	3	121	50%	\$107
Agriculture	1	89	100%	\$0
History	1	0		
Language & Literature	1	0		

# North Macedonia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	11	348			\$12	-99%
Fee	3	104	30%	-54%	\$40	-98%
No-fee	8	244	70%	101%		
Biomed	2	136	39%	5%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	2	136	100%	320%		
STEM	4	78	22%	-45%	\$19	-99%
Fee	1	13	17%	-78%	\$114	-94%
No-fee	3	65	83%	265%		
H&SS	5	134	39%	74%	\$20	-87%
Fee	2	91	68%	179%	\$29	-95%
No-fee	3	43	32%	-58%		

No biomed fees, unusually high percentage of fees for H&SS. Same journal count as in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	9	9	10	9	10	10
%No-fee	67%	67%	70%	67%	70%	70%
Articles	348	162	160	167	184	244
%No-fee	70%	72%	73%	78%	76%	80%
Change	115%	1%	-4%	-9%	-25%	

Impressive growth in 2020.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	2	136	100%	\$0
Small: 20-59	9	212	51%	\$20

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$0.20-\$199	3	104	\$4,162	\$40
No fee	8	244		
Total	11	348	\$4,162	\$12

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	0	3	0
No-fee	1	2	2	2	1
Total	1	2	2	5	1

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	9	326	68%	\$13
Society/govt	1	22	100%	\$0
Open Access	1	0		



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	2	136	100%	\$0
Sociology	2	54	0%	\$11
Political Science	1	37	0%	\$56
Earth Sciences	2	35	63%	\$42
Zoology	1	24	100%	\$0
Language & Literature	1	23	100%	\$0
Economics	1	20	100%	\$0
Other Sciences	1	19	100%	\$0

# Poland

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	653	19,938			\$212	-82%
Fee	149	8,332	42%	-36%	\$508	-73%
No-fee	504	11,606	58%	67%		
Biomed	103	4,627	23%	-38%	\$357	-78%
Fee	42	2,690	58%	-24%	\$615	-71%
No-fee	61	1,937	42%	76%		
STEM	229	7,096	36%	-12%	\$296	-79%
Fee	70	3,547	50%	-35%	\$592	-67%
No-fee	159	3,549	50%	119%		
H&SS	321	8,215	41%	86%	\$58	-63%
Fee	37	2,095	26%	5%	\$227	-65%
No-fee	284	6,120	74%	-1%		

Mostly no-fee, heavy on H&SS and light on biomed. The most OA journals of any Eastern European country, but not the most articles. 7% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	552	610	612	600	578	524
%No-fee	74%	76%	77%	78%	78%	76%
Articles	19,938	20,951	21,154	22,339	20,849	18,741
%No-fee	58%	61%	63%	64%	63%	61%
Change	-5%	-1%	-5%	7%	11%	

Same as GOA5: Slight declines since 2017, and slight shift toward fees.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	1	584	0%	\$51
Large: 150-599	18	1,986	33%	\$489
Med.: 60-149	131	7,626	45%	\$295
Small: 20-59	377	8,972	76%	\$103
Smallest: 0-19	126	770	90%	\$72

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	4	323	\$639,189	\$1,979
\$600-\$1,399	33	2,106	\$2,147,365	\$1,020
\$200-\$599	57	3,392	\$1,221,386	\$360
\$0.20-\$199	55	2,511	\$220,973	\$88
No fee	504	11,606		
Total	653	19,938	\$4,228,913	\$212

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	10	23	33	67	16
No-fee	18	49	103	293	41
Total	28	72	136	360	57

Big drop in new journals after 2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Traditional	319	8,465	55%	\$338
Univ/college	262	8,084	71%	\$72
Open Access	43	2,025	34%	\$257
Society/govt	29	1,364	36%	\$191

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	86	4,243	42%	\$337
Anthropology	37	1,584	47%	\$69
Economics	58	1,365	59%	\$92
Language & Literature	51	1,221	95%	\$26
Engineering	39	1,193	33%	\$374
Ecology	27	927	42%	\$203
Mathematics	34	924	58%	\$352
Technology	16	789	46%	\$142
Computer Science	19	742	85%	\$115
Political Science	30	708	99%	\$1
Earth Sciences	28	650	52%	\$316
Chemistry	15	641	33%	\$623
Agriculture	30	632	56%	\$313
Sociology	21	533	97%	\$16
Philosophy	23	491	89%	\$61
Education	16	417	74%	\$108
Religion	14	405	86%	\$155
Biology	17	384	40%	\$581
Law	17	353	84%	\$25
Zoology	14	326	59%	\$81
Miscellany	7	277	23%	\$51
Physics	7	272	51%	\$417
Arts & Architecture	10	237	78%	\$61
History	14	198	100%	\$0
Psychology	7	186	53%	\$141
Library Science	11	120	100%	\$0
Media & Communications	5	120	100%	\$0

Medicine tops the list, common for countries with many journals—but chemistry is the most expensive.

# Romania

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	335	11,655			\$74	-94%
Fee	69	4,795	41%	-37%	\$181	-90%
No-fee	266	6,860	59%	69%		
Biomed	32	1,592	14%	-63%	\$127	-92%
Fee	14	905	57%	-25%	\$223	-89%
No-fee	18	687	43%	81%		
STEM	100	3,489	30%	-26%	\$104	-93%
Fee	17	962	28%	-64%	\$378	-79%
No-fee	83	2,527	72%	217%		
H&SS	203	6,574	56%	154%	\$46	-71%
Fee	38	2,928	45%	83%	\$103	-84%
No-fee	165	3,646	55%	-27%		

Mostly no-fee, mostly H&SS, little biomed. 3% fewer journals than GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	287	309	320	314	316	305
%No-fee	77%	78%	79%	80%	80%	80%
Articles	11,655	10,314	10,106	10,260	10,778	11,558
%No-fee	59%	66%	65%	67%	65%	64%
Change	13%	2%	-2%	-5%	-7%	

Strong 2020 after four weak years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	930	0%	\$114
Large: 150-599	16	2,528	39%	\$79
Med.: 60-149	69	4,084	57%	\$118
Small: 20-59	172	3,519	87%	\$19
Smallest: 0-19	77	594	85%	\$18

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	1	91	\$207,366	\$2,279
\$600-\$1,399	1	59	\$40,334	\$684
\$200-\$599	14	1,044	\$294,867	\$282
\$0.20-\$199	53	3,601	\$323,532	\$90
No fee	266	6,860		
Total	335	11,655	\$866,099	\$74

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	15	23	25	4
No-fee	14	44	100	95	13
Total	16	59	123	120	17

Typical sharp decline in new journals over the past five years.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	250	7,857	68%	\$37
Open Access	36	2,037	16%	\$233
Society/govt	30	1,309	61%	\$77
Traditional	19	428	91%	\$6

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Economics	57	1,624	51%	\$32
Medicine	28	1,498	40%	\$135
Agriculture	17	1,379	75%	\$28
Anthropology	28	1,316	32%	\$86
Sociology	11	1,114	17%	\$95
Political Science	26	701	89%	\$3
Engineering	17	553	79%	\$8
Language & Literature	21	515	74%	\$28
Computer Science	16	309	61%	\$197
History	9	212	95%	\$2
Other Sciences	5	205	20%	\$1,028
Philosophy	10	196	100%	\$0
Ecology	9	193	83%	\$6
Miscellany	5	192	100%	\$0
Media & Communications	9	183	100%	\$0
Education	10	181	91%	\$10
Chemistry	2	172	27%	\$250
Arts & Architecture	8	163	100%	\$0
Law	6	162	61%	\$61
Earth Sciences	15	148	100%	\$0
Mathematics	9	142	100%	\$0
Technology	3	142	100%	\$0
Zoology	4	128	59%	\$39
Physics	3	118	100%	\$0
Biology	4	94	100%	\$0
Psychology	1	8	100%	\$0
Library Science	2	7	100%	\$0

Economics has more articles than medicine, at much lower cost.

# Russia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	433	25,158			\$33	-97%
Fee	51	3,667	15%	-78%	\$229	-88%
No-fee	382	21,491	85%	145%		
Biomed	104	6,953	28%	-26%	\$35	-98%
Fee	10	549	8%	-90%	\$443	-79%
No-fee	94	6,404	92%	287%		
STEM	133	7,191	29%	-30%	\$32	-98%
Fee	15	1,385	19%	-75%	\$164	-91%
No-fee	118	5,806	81%	254%		
H&SS	196	11,014	44%	97%	\$33	-79%
Fee	26	1,733	16%	-35%	\$213	-67%
No-fee	170	9,281	84%	11%		

The most articles of any Eastern European country. Very high no-fee percentage. Strong in H&SS. 17% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	421	427	418	400	380	329
%No-fee	88%	88%	89%	90%	89%	89%
Articles	25,158	26,298	26,458	25,276	24,708	24,231
%No-fee	85%	85%	88%	88%	87%	88%
Change	-4%	-1%	5%	2%	2%	

Basically flat since 2015.



**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	5	751	100%	\$0
Large: 150-599	42	5,946	75%	\$70
Med.: 60-149	188	12,106	86%	\$25
Small: 20-59	187	6,264	92%	\$19
Smallest: 0-19	11	91	93%	\$18

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$600-\$1.399	5	412	\$339,349	\$824
\$200-\$599	12	751	\$257,696	\$343
\$0.20-\$199	34	2,504	\$242,721	\$97
No fee	382	21,491		
Total	433	25,158	\$839,766	\$33

What fees there are, are mostly very low.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	1	3	14	26	7
No-fee	18	42	85	203	34
Total	19	45	99	229	41

New journals peaked 2011-2015 and have dropped quite a bit.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	291	16,042	94%	\$15
Open Access	104	6,764	68%	\$54
Society/govt	29	1,811	85%	\$13
Traditional	9	541	59%	\$392

Mostly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	92	6,359	94%	\$37
Language & Literature	31	1,783	92%	\$12
Agriculture	21	1,538	65%	\$52
Earth Sciences	31	1,520	97%	\$3
Economics	31	1,436	90%	\$12
Political Science	20	1,407	100%	\$0
Sociology	17	1,314	85%	\$17
History	21	1,292	73%	\$84
Computer Science	16	811	100%	\$0
Other Sciences	8	732	35%	\$84
Law	16	647	91%	\$4
Biology	12	594	74%	\$18
Engineering	13	594	92%	\$8
Psychology	13	590	88%	\$16
Ecology	12	561	89%	\$52
Arts & Architecture	9	531	62%	\$119
Education	9	507	55%	\$110
Philosophy	8	487	100%	\$0
Mathematics	10	435	91%	\$4
Technology	10	420	59%	\$109
Miscellany	5	374	37%	\$30
Chemistry	5	303	100%	\$0
Anthropology	6	286	74%	\$177
Religion	5	265	100%	\$0
Physics	5	220	100%	\$0
Media & Communications	4	79	43%	\$88
Zoology	2	57	100%	\$0
Library Science	1	16	100%	\$0

Medicine first; anthropology the only average cost higher than \$120.

# Serbia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	200	5,756			\$60	-95%
Fee	20	1,455	25%	-61%	\$237	-87%
No-fee	180	4,301	75%	114%		
Biomed	23	756	13%	-65%	\$43	-97%
Fee	5	239	32%	-59%	\$137	-93%
No-fee	18	517	68%	187%		
STEM	73	2,803	49%	20%	\$107	-92%
Fee	10	1,112	40%	-49%	\$270	-85%
No-fee	63	1,691	60%	164%		
H&SS	104	2,197	38%	72%	\$5	-97%
Fee	5	104	5%	-81%	\$110	-83%
No-fee	99	2,093	95%	26%		

Three-quarters no-fee, light on biomed. 14% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	192	197	197	186	175	167
%No-fee	91%	90%	90%	90%	90%	89%
Articles	5,756	6,179	5,719	5,573	5,625	5,384
%No-fee	75%	74%	77%	79%	79%	80%
Change	-7%	8%	3%	-1%	4%	

Little change since 2015.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	465	0%	\$205
Large: 150-599	4	498	21%	\$268
Med.: 60-149	27	1,748	81%	\$38
Small: 20-59	110	2,494	90%	\$19
Smallest: 0-19	58	551	94%	\$4

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	6	877	\$273,079	\$311
\$0.20-\$199	14	578	\$71,897	\$124
No fee	180	4,301		
Total	200	5,756	\$344,976	\$60

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	3	1	11	3
No-fee	17	45	23	72	23
Total	19	48	24	83	26

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	153	4,205	80%	\$44
Society/govt	44	1,474	65%	\$103
Traditional	1	40	0%	\$137
Open Access	2	37	16%	\$48

Predominantly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Engineering	18	1,010	54%	\$94
Medicine	19	609	61%	\$54
Economics	23	459	91%	\$18
Chemistry	6	323	59%	\$106
Other Sciences	5	305	16%	\$361
Agriculture	12	293	71%	\$42
Law	9	289	100%	\$0
History	9	288	100%	\$0
Anthropology	15	227	100%	\$0
Earth Sciences	9	201	100%	\$0
Sociology	5	192	67%	\$16
Ecology	5	183	43%	\$227
Arts & Architecture	10	159	100%	\$0
Biology	4	147	100%	\$0
Education	8	147	100%	\$0
Computer Science	5	131	100%	\$0
Technology	5	128	76%	\$14
Philosophy	3	117	100%	\$0
Zoology	4	116	66%	\$47
Language & Literature	7	103	100%	\$0
Political Science	5	79	100%	\$0
Mathematics	3	65	100%	\$0
Physics	1	48	100%	\$0
Psychology	4	47	100%	\$0
Religion	2	35	100%	\$0
Media & Communications	2	21	100%	\$0
Library Science	1	19	100%	\$0
Miscellany	1	15	100%	\$0

# Slovakia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	48	1,088			\$53	-96%
Fee	6	303	28%	-57%	\$190	-90%
No-fee	42	785	72%	107%		
Biomed	5	104	10%	-74%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	5	104	100%	320%		
STEM	24	575	53%	30%	\$89	-94%
Fee	5	275	48%	-38%	\$186	-90%
No-fee	19	300	52%	129%		
H&SS	19	409	38%	70%	\$16	-90%
Fee	1	28	7%	-72%	\$228	-65%
No-fee	18	381	93%	23%		

No fees for biomed and mostly no-fee in general. 4% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	39	45	46	45	43	39
%No-fee	87%	87%	87%	87%	86%	87%
Articles	1,088	1,085	1,082	1,115	1,039	804
%No-fee	72%	76%	78%	75%	69%	80%
Change	0%	0%	-3%	7%	29%	

Basically flat since 2016.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	2	245	0%	\$180
Small: 20-59	30	712	93%	\$15
Smallest: 0-19	16	131	92%	\$18

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	5	206	\$55,488	\$269
\$0.20-\$199	1	97	\$1,940	\$20
No fee	42	785		
Total	48	1,088	\$57,428	\$53

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	1	1	4	0
No-fee	3	5	8	22	4
Total	3	6	9	26	4

Most new journals began 2011-2015, falling off in recent years.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	26	579	78%	\$14
Open Access	7	293	39%	\$168
Traditional	13	195	100%	\$0
Society/govt	2	21	100%	\$0

Mostly university publishers.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Agriculture	4	192	23%	\$220
Engineering	5	111	91%	\$22
Medicine	5	104	100%	\$0
Other Sciences	1	97	0%	\$20
Earth Sciences	6	64	100%	\$0
Law	3	62	100%	\$0
Anthropology	3	58	100%	\$0
Miscellany	1	45	100%	\$0
Ecology	3	43	100%	\$0
Sociology	2	37	100%	\$0
Media & Communications	1	32	100%	\$0
Philosophy	1	30	100%	\$0
Economics	1	28	0%	\$228
Computer Science	2	26	100%	\$0
Psychology	1	25	100%	\$0
Library Science	1	23	100%	\$0
Zoology	2	22	100%	\$0
Arts & Architecture	1	20	100%	\$0
Technology	1	20	0%	\$228
History	1	18	100%	\$0
Political Science	1	16	100%	\$0
Religion	1	15	100%	\$0
Education	1	0		



# Slovenia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	57	1,516			\$38	-97%
Fee	3	101	7%	-90%	\$566	-69%
No-fee	54	1,415	93%	167%		
Biomed	5	174	11%	-69%	\$275	-83%
Fee	1	60	34%	-55%	\$798	-62%
No-fee	4	114	66%	175%		
STEM	11	418	28%	-32%	\$22	-98%
Fee	2	41	10%	-87%	\$228	-87%
No-fee	9	377	90%	295%		
H&SS	41	924	61%	175%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	41	924	100%	32%		

Mostly H&SS (no fees at all). Thirteen out of fourteen articles no-fee. Very little biomed. 8% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	55	56	55	53	52	51
%No-fee	95%	95%	95%	94%	94%	94%
Articles	1,516	1,505	1,473	1,359	1,250	1,275
%No-fee	93%	92%	92%	92%	91%	92%
Change	1%	2%	8%	9%	-2%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	130	100%	\$0
Med.: 60-149	5	248	76%	\$193
Small: 20-59	38	989	96%	\$9
Smallest: 0-19	13	149	100%	\$0

Nearly all fees are in medium-sized journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	1	60	\$47,854	\$798
\$200-\$599	2	41	\$9,343	\$228
No fee	54	1,415		
Total	57	1,516	\$57,197	\$38

No journals with nominal (\$0.01-\$199) fees. Average fee is just over half what it was in GOA5.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	0	1	0	0
No-fee	11	12	14	15	2
Total	13	12	15	15	2

Almost no new journals after 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	41	1,027	100%	\$0
Society/govt	10	340	88%	\$27
Traditional	5	132	55%	\$363
Open Access	1	17	100%	\$0

Universities predominate, as is frequently the case.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Language & Literature	11	244	100%	\$0
Engineering	2	154	84%	\$36
Medicine	4	139	57%	\$344
Agriculture	3	131	100%	\$0
Education	4	127	100%	\$0
Economics	6	117	100%	\$0
Miscellany	3	99	100%	\$0
Earth Sciences	3	80	100%	\$0
Arts & Architecture	5	71	100%	\$0
Sociology	3	55	100%	\$0
Political Science	2	52	100%	\$0
Anthropology	2	41	100%	\$0
Philosophy	2	41	100%	\$0
History	1	36	100%	\$0
Biology	1	35	100%	\$0
Religion	1	28	100%	\$0
Technology	1	28	100%	\$0
Physics	1	17	0%	\$228
Law	1	13	100%	\$0
Ecology	1	8	100%	\$0

Unusual to have language & literature top the list.

# Ukraine

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	348	15,516			\$37	-97%
Fee	151	8,241	53%	-18%	\$70	-96%
No-fee	197	7,275	47%	34%		
Biomed	55	2,613	17%	-55%	\$47	-97%
Fee	22	1,333	51%	-33%	\$91	-96%
No-fee	33	1,280	49%	106%		
STEM	120	4,746	31%	-25%	\$16	-99%
Fee	40	1,453	31%	-60%	\$52	-97%
No-fee	80	3,293	69%	204%		
H&SS	173	8,157	53%	137%	\$47	-70%
Fee	89	5,455	67%	174%	\$70	-89%
No-fee	84	2,702	33%	-56%		

High fee percentage for Eastern Europe (but low fees). Mostly H&SS. STEM is mostly no-fee. 24% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	331	335	324	291	263	232
%No-fee	57%	57%	59%	58%	59%	59%
Articles	15,516	16,097	17,093	16,400	15,508	15,178
%No-fee	47%	46%	47%	48%	45%	45%
Change	-4%	-6%	4%	6%	2%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	2	669	0%	\$22
Large: 150-599	32	3,385	23%	\$73
Med.: 60-149	121	6,353	51%	\$25
Small: 20-59	170	4,902	63%	\$30
Smallest: 0-19	23	207	84%	\$51

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$600-\$1,399	2	93	\$64,130	\$690
\$200-\$599	6	639	\$215,771	\$338
\$0.20-\$199	143	7,509	\$300,716	\$40
No fee	197	7,275		
Total	348	15,516	\$580,617	\$37

Lower average fees than in GOA5.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	6	4	25	76	40
No-fee	11	18	30	99	39
Total	17	22	55	175	79

Healthy pace of new journals since 2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	296	13,518	46%	\$36
Open Access	35	1,382	60%	\$35
Society/govt	15	559	49%	\$19
Traditional	2	57	0%	\$662

Predominantly university—and note the high traditional charges.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Economics	35	2,650	11%	\$93
Medicine	43	2,024	53%	\$51
Education	21	854	28%	\$22
Computer Science	14	755	70%	\$6
Political Science	16	720	29%	\$19
Agriculture	14	649	67%	\$62
Biology	12	589	35%	\$30
History	14	589	65%	\$14
Anthropology	14	566	22%	\$51
Engineering	17	565	60%	\$11
Physics	10	514	100%	\$0
Earth Sciences	15	476	65%	\$7
Mathematics	15	465	85%	\$3
Philosophy	10	448	73%	\$13
Language & Literature	14	387	45%	\$36
Arts & Architecture	9	360	85%	\$4
Psychology	7	357	19%	\$50
Law	10	333	50%	\$40
Zoology	8	326	50%	\$10
Sociology	6	320	8%	\$22
Other Sciences	5	293	65%	\$6
Ecology	9	254	22%	\$54
Library Science	8	248	94%	\$1
Chemistry	7	229	73%	\$5
Technology	6	220	91%	\$1
Miscellany	3	155	56%	\$25
Religion	3	92	24%	\$30
Media & Communications	3	78	54%	\$7

No subject has three- or four-digit average fees.

# Other Eastern European Countries

Twenty journals from seven countries.

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	20	580			\$76	-94%
Fee	5	176	30%	-53%	\$252	-86%
No-fee	15	404	70%	100%		
Biomed	2	106	18%	-51%	\$67	-96%
Fee	1	31	29%	-62%	\$228	-89%
No-fee	1	75	71%	197%		
STEM	7	240	41%	2%	\$38	-97%
Fee	2	56	23%	-70%	\$164	-91%
No-fee	5	184	77%	236%		
H&SS	11	234	40%	82%	\$120	-24%
Fee	2	89	38%	56%	\$315	-51%
No-fee	9	145	62%	-18%		

Mostly no-fee. Light on biomed.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	17	18	18	18	12	11
%No-fee	71%	72%	72%	78%	75%	73%
Articles	580	561	628	591	398	324
%No-fee	70%	74%	79%	86%	77%	68%
Change	3%	-11%	6%	48%	23%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	4	211	100%	\$0
Small: 20-59	11	325	46%	\$136
Smallest: 0-19	5	44	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	3	125	\$38,452	\$308
\$0.20-\$199	2	51	\$5,853	\$115
No fee	15	404		
Total	20	580	\$44,305	\$76

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	0	0	2	2
No-fee	0	0	3	5	7
Total	1	0	3	7	9

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	11	396	72%	\$80
Society/govt	6	143	55%	\$89
Open Access	3	41	100%	\$0



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	2	106	71%	\$67
Anthropology	1	70	100%	\$0
Agriculture	1	66	100%	\$0
Sociology	2	57	42%	\$99
Chemistry	2	56	0%	\$164
Philosophy	1	56	0%	\$400
Physics	1	42	100%	\$0
Computer Science	1	40	100%	\$0
Technology	1	24	100%	\$0
Education	3	19	100%	\$0
Law	1	15	100%	\$0
Mathematics	1	12	100%	\$0
Language & Literature	1	9	100%	\$0
Economics	1	8	100%	\$0
Political Science	1	0		

**Country Profiles****Albania**

Five journals, three no-fee, 88 articles in 2020.

**Armenia**

Three journals, two no-fee, 87 articles in 2020.

**Azerbaijan**

Two journals, no fees, 24 articles in 2020.

**Cyprus**

Two no-fee journals, 79 articles in 2020.

**Georgia**

Three journals, no fees, 121 articles in 2020.

**Kazakhstan**

Four journals, two no-fee, 173 articles in 2020.

**Turkmenistan**

One no-fee journal with eight articles in 2020.

# Latin America

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	2,951	118,182			\$38	-97%
Fee	171	15,231	13%	-80%	\$295	-84%
No-fee	2,780	102,951	87%	150%		
Biomed	379	24,750	21%	-44%	\$98	-94%
Fee	46	5,529	22%	-71%	\$437	-79%
No-fee	333	19,221	78%	226%		
STEM	590	24,188	20%	-50%	\$73	-95%
Fee	97	7,612	31%	-59%	\$232	-87%
No-fee	493	16,576	69%	200%		
H&SS	1,982	69,244	59%	164%	\$4	-97%
Fee	28	2,090	3%	-88%	\$146	-77%
No-fee	1,954	67,154	97%	28%		

Predominantly no-fee, mostly H&SS, 10% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	2,793	2,881	2,869	2,819	2,726	2,586
%No-fee	94%	94%	94%	94%	94%	94%
Articles	118,182	108,626	105,527	101,218	93,894	86,860
%No-fee	87%	87%	87%	87%	87%	86%
Change	9%	3%	4%	8%	8%	

Faster growth than in previous two years.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	4	2,637	43%	\$116
Large: 150-599	99	17,430	64%	\$133
Med.: 60-149	634	42,913	86%	\$34
Small: 20-59	1,821	50,966	97%	\$8
Smallest: 0-19	393	4,236	99%	\$2

Highest average costs are in large, not largest, journals—but still low (and lower than in GOA5).

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	5	554	\$964,100	\$1,740
\$600-\$1,399	11	1,581	\$1,111,223	\$703
\$200-\$599	55	4,719	\$1,681,136	\$356
\$0.20-\$199	100	8,377	\$732,230	\$87
No fee	2,780	102,951		
Total	2,951	118,182	\$4,488,689	\$38

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	58	37	33	37	6
No-fee	519	527	623	926	185
Total	577	564	656	963	191

Slowing down of new journals in last five years.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	2,567	97,844	90%	\$26
Society/govt	298	17,334	71%	\$105
Open Access	77	2,657	74%	\$51
Traditional	4	245	100%	\$0

Predominantly universities—and the few traditional are no-fee.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	349	22,995	79%	\$90
Education	281	14,247	98%	\$5
Language & Literature	199	7,477	100%	\$0
Agriculture	133	6,231	51%	\$121
Sociology	192	5,811	99%	\$0
Anthropology	171	5,534	92%	\$12
Economics	202	4,909	99%	\$2
Law	155	4,627	100%	\$0
History	130	4,493	100%	\$0
Miscellany	86	4,151	76%	\$19
Earth Sciences	96	4,044	84%	\$15
Political Science	141	3,923	98%	\$7
Media & Communications	92	3,471	100%	\$0
Ecology	84	2,892	76%	\$25
Arts & Architecture	93	2,883	98%	\$0
Zoology	51	2,741	33%	\$186
Philosophy	87	2,705	99%	\$19
Psychology	82	2,662	97%	\$2
Engineering	79	2,634	85%	\$36
Biology	30	1,755	59%	\$192
Other Sciences	45	1,752	87%	\$8
Library Science	40	1,375	100%	\$0
Mathematics	35	1,355	95%	\$4
Religion	31	976	100%	\$0
Technology	23	798	95%	\$1
Chemistry	16	745	32%	\$279
Computer Science	18	521	100%	\$0
Physics	10	475	75%	\$96

Seven subjects have no fees anywhere in Latin America.

**Country of publication**

<b>Country</b>	<b>Journals</b>	<b>Articles</b>	<b>%no-fee</b>	<b>\$/article</b>
Argentina	298	8,014	96%	\$22
Bahamas	1	12	100%	\$0
Barbados	1	36	100%	\$0
Bolivia	6	122	100%	\$0
Brazil	1,515	75,660	83%	\$51
Chile	136	4,485	71%	\$62
Colombia	397	10,047	99%	\$1
Costa Rica	71	2,141	98%	\$1
Cuba	108	6,339	100%	\$0
Dominican Republic	7	198	100%	\$0
Ecuador	76	2,040	100%	\$0
El Salvador	3	33	100%	\$0
Guam	1	1	0%	\$350
Guatemala	2	41	100%	\$0
Honduras	2	32	100%	\$0
Mexico	151	4,464	89%	\$20
Nicaragua	8	133	100%	\$0
Paraguay	21	432	100%	\$0
Peru	80	2,462	93%	\$10
Puerto Rico	4	16	100%	\$0
Uruguay	28	677	100%	\$0
Venezuela	35	797	98%	\$9

# Argentina

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	298	8,014			\$22	-98%
Fee	10	345	4%	-93%	\$517	-72%
No-fee	288	7,669	96%	174%		
Biomed	20	965	12%	-68%	\$178	-89%
Fee	1	170	18%	-77%	\$1,009	-52%
No-fee	19	795	82%	246%		
STEM	50	1,064	13%	-67%	\$6	-100%
Fee	8	154	14%	-81%	\$41	-98%
No-fee	42	910	86%	275%		
H&SS	228	5,985	75%	237%	\$0	-100%
Fee	1	21	0%	-99%	\$28	-96%
No-fee	227	5,964	100%	32%		

Even more heavily no-fee and H&SS than most of Latin America. 18% more journals than in GOA4. (The two “-100%’ figures are -99.57% and -99.94% respectively.)

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	287	294	290	288	268	252
%No-fee	97%	97%	97%	97%	96%	96%
Articles	8,014	7,090	6,907	6,505	5,901	5,344
%No-fee	96%	96%	96%	95%	96%	94%
Change	13%	3%	6%	10%	10%	

Healthy growth resumes after two slow years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	3	672	75%	\$255
Med.: 60-149	17	1,178	95%	\$0
Small: 20-59	196	5,276	98%	\$1
Smallest: 0-19	82	888	97%	\$4

No very large; the single >\$200 journal grew from medium to large.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1.399	1	170	\$171,530	\$1,009
\$200-\$599	2	6	\$1,200	\$200
\$0.20-\$199	7	169	\$5,784	\$34
No fee	288	7,669		
Total	298	8,014	\$178,514	\$22

Nearly all revenue is one medical journal.

**Starting dates**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	5	2	1	0
No-fee	40	36	61	128	23
Total	42	41	63	129	23

The surge was 2011-2015, but new titles continue to emerge.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	247	6,505	97%	\$27
Society/govt	43	1,335	88%	\$3
Open Access	7	156	96%	\$8

Predominantly universities, typical for Latin America.



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	17	899	81%	\$191
History	33	859	100%	\$0
Anthropology	29	753	97%	\$1
Sociology	28	728	100%	\$0
Language & Literature	23	675	100%	\$0
Media & Communications	12	550	100%	\$0
Education	17	480	100%	\$0
Political Science	16	432	100%	\$0
Agriculture	16	414	70%	\$8
Arts & Architecture	17	358	100%	\$0
Law	8	336	100%	\$0
Economics	16	241	100%	\$0
Psychology	7	186	100%	\$0
Philosophy	12	181	100%	\$0
Earth Sciences	9	158	95%	\$1
Zoology	6	127	100%	\$0
Religion	5	100	100%	\$0
Ecology	5	89	100%	\$0
Other Sciences	3	82	100%	\$0
Biology	3	66	100%	\$0
Library Science	2	57	100%	\$0
Mathematics	3	56	100%	\$0
Engineering	3	50	100%	\$0
Miscellany	3	49	100%	\$0
Computer Science	2	35	100%	\$0
Technology	1	30	100%	\$0
Physics	2	23	0%	\$120

Only medicine and physics have average fees above \$8.

# Brazil

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	1,515	75,660			\$51	-96%
Fee	136	12,788	17%	-74%	\$304	-84%
No-fee	1,379	62,872	83%	138%		
Biomed	189	16,453	22%	-42%	\$131	-92%
Fee	42	5,123	31%	-59%	\$421	-80%
No-fee	147	11,330	69%	189%		
STEM	290	15,995	21%	-48%	\$98	-93%
Fee	73	6,650	42%	-46%	\$236	-87%
No-fee	217	9,345	58%	156%		
H&SS	1,036	43,212	57%	158%	\$4	-98%
Fee	21	1,015	2%	-90%	\$165	-74%
No-fee	1,015	42,197	98%	29%		

Since Brazil accounts for nearly two-thirds of all Latin America OA articles, it's not surprising that this profile resembles the larger one. 7% more journals than in GOA5. (The no-fee percentage is a bit *lower* than for Latin America as a whole, but still a very high 83%.)

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	1,441	1,471	1,473	1,449	1,413	1,350
%No-fee	91%	91%	91%	91%	91%	91%
Articles	75,660	67,816	67,399	64,793	59,837	55,605
%No-fee	83%	82%	82%	82%	81%	80%
Change	12%	1%	4%	8%	8%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	2	1,746	65%	\$134
Large: 150-599	77	13,676	55%	\$157
Med.: 60-149	481	32,656	84%	\$37
Small: 20-59	869	26,665	97%	\$11
Smallest: 0-19	86	917	98%	\$4

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	4	519	\$911,600	\$1,756
\$600-\$1,399	8	1,231	\$828,393	\$673
\$200-\$599	43	4,295	\$1,559,283	\$363
\$0.20-\$199	81	6,743	\$594,426	\$88
No fee	1,379	62,872		
Total	1,515	75,660	\$3,893,702	\$51

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	50	27	25	28	6
No-fee	241	273	340	439	86
Total	291	300	365	467	92

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	1,283	60,424	87%	\$34
Society/govt	188	13,508	66%	\$131
Open Access	40	1,510	62%	\$44
Traditional	3	198	100%	\$0

Predominantly universities, but societies charge more.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	174	15,093	71%	\$120
Education	165	9,739	97%	\$6
Language & Literature	131	5,716	100%	\$0
Agriculture	66	4,143	40%	\$154
Anthropology	82	3,254	87%	\$20
Earth Sciences	60	3,024	81%	\$18
Sociology	82	2,967	98%	\$1
Economics	96	2,858	99%	\$0
Law	83	2,834	100%	\$0
History	63	2,729	100%	\$0
Media & Communications	56	2,256	100%	\$0
Ecology	50	1,997	66%	\$34
Zoology	25	1,941	16%	\$231
Miscellany	38	1,919	95%	\$4
Political Science	60	1,915	97%	\$15
Philosophy	45	1,827	100%	\$0
Arts & Architecture	44	1,773	99%	\$0
Psychology	45	1,745	95%	\$3
Biology	15	1,360	47%	\$248
Engineering	21	1,272	69%	\$74
Mathematics	22	1,084	94%	\$5
Library Science	26	948	100%	\$0
Other Sciences	17	878	80%	\$14
Religion	20	732	100%	\$0
Chemistry	7	589	13%	\$353
Technology	11	512	92%	\$2
Physics	4	408	77%	\$105
Computer Science	7	147	100%	\$0

# Chile

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	136	4,485			\$62	-95%
Fee	7	1,280	29%	-56%	\$218	-88%
No-fee	129	3,205	71%	105%		
Biomed	13	549	12%	-67%	\$148	-91%
Fee	2	165	30%	-61%	\$492	-77%
No-fee	11	384	70%	194%		
STEM	20	647	14%	-64%	\$114	-92%
Fee	2	154	24%	-69%	\$479	-74%
No-fee	18	493	76%	234%		
H&SS	103	3,289	73%	231%	\$38	-76%
Fee	3	961	29%	20%	\$129	-80%
No-fee	100	2,328	71%	-6%		

Very strong on H&SS. 11% more journals than in GOA5

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	126	132	130	126	121	110
%No-fee	94%	95%	95%	94%	94%	94%
Articles	4,485	4,002	3,488	3,060	3,003	2,646
%No-fee	71%	79%	81%	85%	83%	82%
Change	12%	15%	14%	2%	13%	

Solid growth for the past three years.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	1	891	0%	\$80
Large: 150-599	1	252	100%	\$0
Med.: 60-149	9	689	61%	\$206
Small: 20-59	94	2,333	95%	\$28
Smallest: 0-19	31	320	100%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	1	35	\$52,500	\$1,500
\$600-\$1,399	2	180	\$111,300	\$618
\$200-\$599	2	139	\$43,550	\$313
\$0.20-\$199	2	926	\$71,595	\$77
No fee	129	3,205		
Total	136	4,485	\$278,945	\$62

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	1	1	2	3	0
No-fee	29	24	23	40	13
Total	30	25	25	43	13

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	122	3,992	72%	\$50
Open Access	8	304	63%	\$225
Society/govt	5	171	70%	\$75

The usual for Latin America.

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Miscellany	5	967	8%	\$74
Medicine	12	549	70%	\$148
Political Science	12	384	100%	\$0
History	10	240	100%	\$0
Philosophy	9	238	85%	\$221
Law	9	222	100%	\$0
Language & Literature	7	193	100%	\$0
Sociology	10	191	100%	\$0
Anthropology	9	184	100%	\$0
Arts & Architecture	9	183	81%	\$2
Zoology	2	180	51%	\$171
Education	7	150	100%	\$0
Agriculture	3	145	54%	\$296
Media & Communications	4	120	100%	\$0
Engineering	4	118	100%	\$0
Psychology	4	104	100%	\$0
Earth Sciences	4	85	100%	\$0
Religion	3	63	100%	\$0
Ecology	3	46	100%	\$0
Economics	4	45	100%	\$0
Technology	1	38	100%	\$0
Mathematics	1	23	100%	\$0
Computer Science	1	12	100%	\$0
Library Science	1	5	100%	\$0
Biology	1	0		
Chemistry	1	0		

Only five subjects have any fees at all.

# Colombia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	397	10,047			\$1	-100%
Fee	3	104	1%	-98%	\$122	-93%
No-fee	394	9,943	99%	184%		
Biomed	46	1,602	16%	-57%	\$4	-100%
Fee	1	71	4%	-94%	\$100	-95%
No-fee	45	1,531	96%	302%		
STEM	87	2,146	21%	-47%	\$3	-100%
Fee	2	33	2%	-98%	\$170	-91%
No-fee	85	2,113	98%	331%		
H&SS	264	6,299	63%	183%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	264	6,299	100%	32%		

Mostly H&SS with no fees at all. 10% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	371	391	389	386	380	372
%No-fee	99%	99%	99%	99%	99%	99%
Articles	10,047	9,754	9,665	9,895	9,525	9,406
%No-fee	99%	99%	99%	99%	99%	100%
Change	3%	1%	-2%	4%	1%	

Basically flat.



**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	6	647	100%	\$0
Med.: 60-149	29	1,482	95%	\$5
Small: 20-59	293	7,132	100%	\$1
Smallest: 0-19	69	786	100%	\$0

The three fee-charging journals are medium or small.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	23	\$4,600	\$200
\$0.20-\$199	2	81	\$8,100	\$100
No fee	394	9,943		
Total	397	10,047	\$12,700	\$1

The overall average fee is down from \$2 (in GOA5/2019) to \$1.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	0	1	0	0
No-fee	90	94	95	101	14
Total	92	94	96	101	14

Sharp drop in new journals since 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	377	9,234	100%	\$1
Society/govt	11	434	84%	\$16
Open Access	8	332	100%	\$0
Traditional	1	47	100%	\$0

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	41	1,477	95%	\$5
Education	32	990	100%	\$0
Economics	46	895	100%	\$0
Law	35	719	100%	\$0
Engineering	26	615	100%	\$0
Sociology	26	590	100%	\$0
Political Science	20	496	100%	\$0
Language & Literature	17	410	100%	\$0
Agriculture	14	373	97%	\$3
Anthropology	15	365	100%	\$0
Miscellany	15	365	100%	\$0
Earth Sciences	9	337	100%	\$0
History	13	312	100%	\$0
Psychology	13	284	100%	\$0
Philosophy	12	259	100%	\$0
Other Sciences	9	247	100%	\$0
Arts & Architecture	8	224	100%	\$0
Media & Communications	8	190	100%	\$0
Zoology	6	185	88%	\$25
Library Science	2	158	100%	\$0
Ecology	8	127	100%	\$0
Biology	5	125	100%	\$0
Mathematics	5	107	100%	\$0
Technology	3	70	100%	\$0
Religion	2	42	100%	\$0
Chemistry	2	36	100%	\$0
Computer Science	3	30	100%	\$0
Physics	2	19	100%	\$0

Medicine, agriculture, zoology—the only fees.

# Costa Rica

There's now one fee (\$50) journal.

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	71	2,141			\$1	-100%
Fee	1	46	2%	-97%	\$50	-97%
No-fee	70	2,095	98%	180%		
Biomed	7	266	12%	-67%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	7	266	100%	320%		
STEM	19	611	29%	-30%	\$4	-100%
Fee	1	46	8%	-90%	\$50	-97%
No-fee	18	565	92%	305%		
H&SS	45	1,264	59%	166%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	45	1,264	100%	32%		

Mostly no-fee H&SS, as is true for Latin America in general. 10% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	71	71	71	71	70	66
%No-fee	99%	99%	99%	99%	99%	98%
Articles	2,141	1,935	1,853	1,756	1,853	1,457
%No-fee	98%	96%	96%	98%	98%	97%
Change	11%	4%	6%	-5%	27%	

Back to growth after slight decline in 2017.

### Article volume

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	145	100%	\$0
Med.: 60-149	13	750	94%	\$3
Small: 20-59	38	1,027	100%	\$0
Smallest: 0-19	19	219	100%	\$0

### Fees and revenue

	Journals	Articles	Revenue	\$/article
\$0.20-\$199	1	46	\$2,300	\$50
No fee	70	2,095		
Total	71	2,141	\$2,300	\$1

### Starting date

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	1	0	0
No-fee	18	16	17	18	1
Total	18	16	18	18	1

Another case where new journals have dropped sharply since 2015.

### Publisher category

Category	Journals	Articles	%No-fee	\$/article
Univ/college	69	2,103	98%	\$1
Society/govt	2	38	100%	\$0

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>Art/Jrn</b>
Education	7	378	100%
Medicine	7	266	100%
Ecology	3	176	100%
Agriculture	6	155	100%
Sociology	6	155	100%
Engineering	3	133	100%
Anthropology	5	108	100%
Language & Literature	4	108	100%
Miscellany	2	106	100%
Political Science	4	86	100%
Other Sciences	2	70	34%
Law	2	55	100%
Arts & Architecture	2	44	100%
Philosophy	2	40	100%
Psychology	3	40	100%
History	2	39	100%
Religion	1	39	100%
Economics	3	35	100%
Earth Sciences	2	34	100%
Library Science	2	31	100%
Zoology	2	26	100%
Mathematics	1	17	100%

# Cuba

Another country with no fees.

## Key facts

	Journals	Articles	Art%	Rel%
All	108	6,339		
Biomed	39	2,597	41%	10%
STEM	34	1,264	20%	-51%
H&SS	35	2,478	39%	76%

16% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	105	105	106	105	101	94
Articles	6,339	5,606	5,369	4,987	4,774	4,392
Change	13%	4%	8%	4%	9%	

Strong growth after a slow year.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Large: 150-599	9	1,760	28%	196
Med.: 60-149	34	2,624	41%	77
Small: 20-59	61	1,905	30%	31
Smallest: 0-19	4	50	1%	13

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Journals	23	27	18	36	4

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Univ/college	90	5,403	85%	60
Society/govt	17	934	15%	55
Open Access	1	2	0%	2

**Subject**

Subject	Journals	Articles	Art/Jrn
Medicine	38	2,595	68
Education	15	1,661	111
Agriculture	10	356	36
Anthropology	6	311	52
Computer Science	3	272	91
Sociology	4	204	51
Earth Sciences	5	158	32
Engineering	5	129	26
Media & Communications	2	97	49
Ecology	2	76	38
Other Sciences	1	71	71
Economics	3	66	22
Library Science	2	66	33
Zoology	2	64	32
Technology	2	63	32
Chemistry	2	50	25
Language & Literature	1	40	40
Arts & Architecture	1	33	33
Physics	2	25	13
Biology	1	2	2
Political Science	1	0	0

# Ecuador

Also no fees.

## Key facts

	Journals	Articles	Art%	Rel%
All	76	2,040		
Biomed	8	227	11%	-70%
STEM	20	490	24%	-41%
H&SS	48	1,323	65%	192%

Very strong in H&SS. High 29% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	73	76	74	66	59	46
Articles	2,040	2,077	1,795	1,556	1,309	1,034
Change	-2%	16%	15%	19%	27%	

Down slightly after four strong years.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Large: 150-599	1	146	7%	146
Med.: 60-149	9	501	25%	56
Small: 20-59	52	1,185	58%	23
Smallest: 0-19	14	208	10%	15

Most articles are in small journals.



**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Journals	2	4	15	39	16

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Univ/college	73	1,982	98%	27
Society/govt	1	28	1%	28
Open Access	1	17	1%	17

**Subject**

Subject	Journals	Articles	Art/Jrn
Miscellany	8	362	45
Sociology	11	246	22
Arts & Architecture	6	167	28
Other Sciences	4	167	42
Medicine	7	149	21
Education	5	142	28
Economics	6	121	20
Agriculture	5	104	21
Law	4	91	23
Biology	1	78	78
Engineering	3	76	25
Political Science	3	67	22
Technology	3	65	22
Media & Communications	1	58	58
Anthropology	3	47	16
Chemistry	1	34	34
Computer Science	2	25	13
Philosophy	1	22	22
Earth Sciences	1	19	19
Ecology	1	0	0

# Mexico

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	151	4,464			\$20	-98%
Fee	9	481	11%	-83%	\$186	-90%
No-fee	142	3,983	89%	156%		
Biomed	16	536	12%	-68%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	16	536	100%	320%		
STEM	31	1,269	28%	-30%	\$70	-95%
Fee	8	463	36%	-53%	\$193	-89%
No-fee	23	806	64%	178%		
H&SS	104	2,659	60%	169%	\$0	-100%
Fee	1	18	1%	-97%	\$7	-99%
No-fee	103	2,641	99%	31%		

Mostly H&SS; no biomed fees (and essentially no H&SS fees). 14% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	141	151	150	146	143	139
%No-fee	94%	94%	94%	94%	94%	94%
Articles	4,464	5,679	4,867	4,513	4,069	3,723
%No-fee	89%	93%	91%	92%	94%	93%
Change	-21%	17%	8%	11%	9%	

A down year following four years of growth.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	0		
Large: 150-599	1	132	100%	\$0
Med.: 60-149	23	1,554	75%	\$43
Small: 20-59	96	2,455	97%	\$8
Smallest: 0-19	30	323	96%	\$9

What few fees there are, are in medium and small journals.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	4	170	\$47,703	\$281
\$0.20-\$199	5	311	\$41,720	\$134
No fee	142	3,983		
Total	151	4,464	\$89,423	\$20

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	3	1	3	0
No-fee	41	20	29	45	7
Total	43	23	30	48	7

Once again, a substantial drop in new titles over the past five years.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	134	3,872	91%	\$19
Society/govt	8	345	60%	\$49
Open Access	9	247	100%	\$0

Predominantly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	15	507	100%	\$0
Political Science	18	443	96%	\$0
Sociology	11	399	100%	\$0
Economics	14	323	100%	\$0
Agriculture	6	320	19%	\$158
Anthropology	12	298	100%	\$0
History	8	277	100%	\$0
Ecology	6	260	88%	\$23
Education	13	255	100%	\$0
Earth Sciences	5	228	65%	\$36
Language & Literature	9	220	100%	\$0
Other Sciences	5	182	100%	\$0
Zoology	3	163	42%	\$150
Philosophy	4	117	100%	\$0
Miscellany	4	111	100%	\$0
Arts & Architecture	3	61	100%	\$0
Engineering	3	61	100%	\$0
Law	3	54	100%	\$0
Library Science	1	40	100%	\$0
Psychology	2	32	100%	\$0
Mathematics	1	30	100%	\$0
Biology	1	29	100%	\$0
Media & Communications	2	29	100%	\$0
Chemistry	2	25	100%	\$0

Agriculture and zoology have the only significant fees.

# Paraguay

No fees.

## Key facts

	Journals	Articles	Art%	Rel%
All	21	432		
Biomed	11	253	59%	57%
STEM	3	44	10%	-75%
H&SS	7	135	31%	41%

Mostly biomed. 24% more journals than GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	19	20	19	20	18	15
Articles	432	420	426	427	358	295
Change	3%	-1%	0%	19%	21%	

Basically flat from 2017 on.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Small: 20-59	15	376	87%	25
Smallest: 0-19	6	56	13%	9

**Starting date**

	2001-05	2006-10	2011-15	2016-20
Journals	5	2	11	3

No old journals, and another sharp drop in new titles after 2015.

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Univ/college	15	288	67%	19
Society/govt	6	144	33%	24

**Subject**

Subject	Journals	Articles	Art/Jrn
Medicine	11	253	23
Sociology	3	59	20
Law	1	26	26
Miscellany	1	19	19
Economics	1	18	18
Other Sciences	1	15	15
Zoology	1	15	15

In this case, “mostly biomed” means mostly medicine.

# Peru

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	80	2,462			\$10	-99%
Fee	3	170	7%	-89%	\$150	-92%
No-fee	77	2,292	93%	167%		
Biomed	16	931	38%	2%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	16	931	100%	320%		
STEM	16	376	15%	-62%	\$52	-96%
Fee	2	111	30%	-62%	\$177	-90%
No-fee	14	265	70%	209%		
H&SS	48	1,155	47%	112%	\$5	-97%
Fee	1	59	5%	-79%	\$100	-84%
No-fee	47	1,096	95%	25%		

No biomed fees. Strong H&SS. 16% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	73	79	75	74	72	67
%No-fee	96%	96%	96%	96%	96%	96%
Articles	2,462	2,242	2,060	2,105	1,922	1,715
%No-fee	93%	95%	95%	97%	95%	96%
Change	10%	9%	-2%	10%	12%	

Decent growth in four out of five years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	12	957	93%	\$18
Small: 20-59	55	1,352	93%	\$6
Smallest: 0-19	13	153	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	69	\$17,250	\$250
\$0.20-\$199	2	101	\$8,305	\$82
No fee	77	2,292	\$0	\$0
Total	80	2,462	\$25,555	\$10

Both fee-based journals are in agriculture.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	1	2	0
No-fee	22	11	7	31	6
Total	22	11	8	33	6

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	71	2,282	93%	\$11
Society/govt	7	147	100%	\$0
Open Access	1	0		



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	14	853	100%	\$0
Education	6	189	69%	\$31
Agriculture	4	173	36%	\$114
Psychology	4	166	100%	\$0
Law	6	162	100%	\$0
Miscellany	6	132	100%	\$0
Anthropology	5	109	100%	\$0
Engineering	6	108	100%	\$0
Media & Communications	4	104	100%	\$0
Economics	6	96	100%	\$0
Biology	2	78	100%	\$0
Language & Literature	3	58	100%	\$0
Ecology	2	47	100%	\$0
History	1	37	100%	\$0
Mathematics	1	35	100%	\$0
Arts & Architecture	2	28	100%	\$0
Library Science	1	21	100%	\$0
Philosophy	1	21	100%	\$0
Sociology	1	17	100%	\$0
Political Science	2	15	100%	\$0
Zoology	1	13	100%	\$0
Other Sciences	2	0		

Medicine is largest and entirely no-fee.

# Uruguay

No fees.

## Key facts

	Journals	Articles	Art%	Rel%
All	28	677		
Biomed	6	200	30%	-21%
STEM	5	73	11%	-73%
H&SS	17	404	60%	169%

Mostly H&SS. 12% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	26	26	27	25	22	22
Articles	677	629	540	553	433	458
Change	8%	16%	-2%	28%	-5%	

Two good years and a new peak.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Med.: 60-149	3	158	23%	53
Small: 20-59	18	463	68%	26
Smallest: 0-19	7	56	8%	8

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Journals	1	7	7	10	3

Another case of declining new title production since 2015.

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Univ/college	22	451	67%	21
Society/govt	5	159	23%	32
Open Access	1	67	10%	67

Not as predominantly universities as some countries.

**Subject**

Subject	Journals	Articles	Art/Jrn
Medicine	6	200	33
Psychology	2	103	52
Law	2	52	26
Education	3	42	14
Miscellany	2	41	21
Library Science	1	40	40
Anthropology	2	37	19
Media & Communications	2	37	19
Ecology	1	33	33
Language & Literature	1	21	21
Sociology	1	19	19
Technology	1	17	17
Engineering	2	12	6
Political Science	1	12	12
Zoology	1	11	11

# Venezuela

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	35	797			\$9	-99%
Fee	1	16	2%	-97%	\$450	-76%
No-fee	34	781	98%	181%		
Biomed	5	78	10%	-74%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	5	78	100%	320%		
STEM	5	54	7%	-83%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	5	54	100%	338%		
H&SS	25	665	83%	276%	\$11	-93%
Fee	1	16	2%	-90%	\$450	-30%
No-fee	24	649	98%	29%		

The only fees are in H&SS. Very little biomed. 9% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	29	32	32	33	33	27
%No-fee	97%	97%	97%	97%	97%	96%
Articles	797	730	572	627	542	432
%No-fee	98%	99%	98%	97%	98%	94%
Change	9%	28%	-9%	16%	25%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Med.: 60-149	4	364	100%	\$0
Small: 20-59	14	286	94%	\$25
Smallest: 0-19	17	147	100%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$200-\$599	1	16	\$7,200	\$450
No fee	34	781		
Total	35	797	\$7,200	\$9

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	1	0	0	0
No-fee	8	7	2	16	1
Total	8	8	2	16	1

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	35	797	98%	\$9

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Economics	5	194	92%	\$37
Sociology	6	189	100%	\$0
Miscellany	2	80	100%	\$0
Medicine	5	78	100%	\$0
Law	1	60	100%	\$0
Education	3	50	100%	\$0
Political Science	2	44	100%	\$0
Language & Literature	3	36	100%	\$0
Engineering	1	34	100%	\$0
Arts & Architecture	1	12	100%	\$0
Chemistry	1	11	100%	\$0
Mathematics	1	3	100%	\$0
Technology	1	3	100%	\$0
Zoology	1	3	100%	\$0
Library Science	1	0		
Philosophy	1	0		

## Other Latin American Countries

Nine countries with a total of 35 journals.

### Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	35	624			\$1	-100%
Fee	1	1	0%	-100%	\$350	-81%
No-fee	34	623	100%	186%		
Biomed	3	93	15%	-60%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	3	93	100%	320%		
STEM	10	155	25%	-39%	\$2	-100%
Fee	1	1	1%	-99%	\$350	-81%
No-fee	9	154	99%	335%		
H&SS	22	376	60%	172%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	22	376	100%	32%		

Only one fee-charging journal. 6% more journals than in GOA5.

### Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	31	33	33	30	26	26
%No-fee	97%	97%	97%	97%	96%	96%
Articles	624	646	586	441	368	353
%No-fee	100%	99%	99%	99%	99%	99%
Change	-3%	10%	33%	20%	4%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Small: 20-59	20	511	100%	\$0
Smallest: 0-19	15	113	99%	\$3

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	1	\$350	\$350
No fee	34	623		
Total	35	624	\$350	\$1

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	0	0	0	0
No-fee	4	3	7	12	8
Total	5	3	7	12	8

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	29	511	100%	\$1
Society/govt	5	91	100%	\$0
Open Access	1	22	100%	\$0



**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Education	8	171	100%	\$0
Medicine	2	76	100%	\$0
Anthropology	3	68	100%	\$0
Sociology	3	47	100%	\$0
Ecology	3	41	100%	\$0
Other Sciences	1	40	100%	\$0
Agriculture	2	34	100%	\$0
Media & Communications	1	30	100%	\$0
Engineering	2	26	100%	\$0
Biology	1	17	100%	\$0
Economics	2	17	100%	\$0
Law	1	16	100%	\$0
Political Science	1	16	100%	\$0
Zoology	1	13	100%	\$0
Library Science	1	9	100%	\$0
Psychology	2	2	100%	\$0
Earth Sciences	1	1	0%	\$350

**Country Summaries****Bahamas**

One no-fee journal, twelve articles in 2020.

**Barbados**

One no-fee journal, 36 articles in 2020.

**Bolivia**

Six no-fee journals, up from five in GOA5. 122 articles in 2019.

**Dominican Republic**

Seven no-fee journals, up from six in GOA5. 198 articles in 2020.

**El Salvador**

Three no-fee journals, down from four in GOA5. 33 2020 articles.

**Guam**

One \$350 journal, same as in GOA5, with one 2020 article.

**Guatemala**

Two no-fee journals, same as in GOA4. 41 2020 articles.

**Honduras**

Two no-fee journals, new to GOA6. 32 articles in 2020.

**Nicaragua**

Eight no-fee journals (six active), same as in GOA5. 133 articles in 2020.

**Puerto Rico**

Four no-fee journals, same as in GOA5. Three active in 2020, with a total of 16 articles.

# Middle East

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	1,161	50,519			\$110	-91%
Fee	293	17,897	35%	-46%	\$311	-83%
No-fee	868	32,622	65%	85%		
Biomed	402	20,677	41%	10%	\$122	-92%
Fee	79	5,838	28%	-63%	\$434	-79%
No-fee	323	14,839	72%	202%		
STEM	328	14,470	29%	-29%	\$130	-91%
Fee	90	5,922	41%	-47%	\$317	-83%
No-fee	238	8,548	59%	159%		
H&SS	431	15,372	30%	37%	\$75	-52%
Fee	124	6,137	40%	64%	\$188	-71%
No-fee	307	9,235	60%	-21%		

Nearly two-thirds no-fee. 11% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	1,116	1,125	1,113	1,065	996	890
%No-fee	75%	74%	74%	74%	74%	73%
Articles	50,519	47,032	46,175	42,508	40,298	34,175
%No-fee	65%	65%	64%	63%	62%	61%
Change	7%	2%	9%	5%	18%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	2	723	29%	\$284
Large: 150-599	59	11,172	31%	\$320
Med.: 60-149	250	17,329	70%	\$71
Small: 20-59	712	19,840	78%	\$27
Smallest: 0-19	138	1,455	91%	\$13

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	2	103	\$187,573	\$1,821
\$600-\$1,399	18	2,812	\$2,870,396	\$1,021
\$200-\$599	57	4,684	\$1,660,654	\$355
\$0.20-\$199	216	10,298	\$841,367	\$82
No fee	868	32,622		
Total	1,161	50,519	\$5,559,991	\$110

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	25	44	61	143	20
No-fee	71	99	123	445	130
Total	96	143	184	588	150

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	850	33,641	68%	\$57
Open Access	172	7,539	74%	\$83
Traditional	50	5,242	39%	\$489
Society/govt	89	4,097	50%	\$111

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	377	19,418	74%	\$89
Engineering	52	3,293	66%	\$205
Agriculture	59	2,940	46%	\$38
Economics	70	2,702	40%	\$163
Education	68	2,443	81%	\$30
Anthropology	39	1,759	36%	\$160
Zoology	36	1,753	36%	\$92
Other Sciences	25	1,396	37%	\$470
Biology	25	1,259	33%	\$634
Language & Literature	40	1,229	72%	\$27
Ecology	36	1,190	58%	\$23
Sociology	33	1,188	66%	\$33
Arts & Architecture	21	1,136	23%	\$171
Religion	41	1,003	86%	\$8
Earth Sciences	32	958	84%	\$14
Chemistry	22	828	60%	\$185
Mathematics	28	742	97%	\$5
History	20	709	80%	\$15
Law	17	701	42%	\$30
Miscellany	14	672	82%	\$26
Technology	11	593	91%	\$2
Computer Science	18	546	73%	\$127
Psychology	19	528	53%	\$20
Political Science	19	511	76%	\$24
Library Science	10	301	94%	\$10
Media & Communications	13	294	78%	\$10
Physics	9	231	91%	\$11
Philosophy	7	196	78%	\$12

**Country of Publication**

<b>Country</b>	<b>Journals</b>	<b>Articles</b>	<b>%no-fee</b>	<b>\$/article</b>
Bahrain	1	118	100%	\$0
Egypt	34	2,213	14%	\$421
Iran	583	21,861	60%	\$79
Iraq	56	2,351	22%	\$101
Israel	2	67	100%	\$0
Jordan	4	200	46%	\$96
Lebanon	2	114	14%	\$129
Oman	6	291	100%	\$0
Palestine	1	6	100%	\$0
Qatar	8	129	96%	\$39
Saudi Arabia	15	2,194	33%	\$797
Syria	2	26	100%	\$0
Turkey	432	20,349	83%	\$38
United Arab Emirates	10	507	12%	\$190
Yemen	5	93	78%	\$32

# Egypt

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	34	2,213			\$421	-65%
Fee	23	1,893	86%	31%	\$492	-73%
No-fee	11	320	14%	-59%		
Biomed	9	222	10%	-73%	\$80	-95%
Fee	6	112	50%	-34%	\$159	-92%
No-fee	3	110	50%	108%		
STEM	20	1,677	76%	87%	\$483	-66%
Fee	14	1,501	90%	16%	\$539	-70%
No-fee	6	176	10%	-54%		
H&SS	5	314	14%	-36%	\$332	111%
Fee	3	280	89%	266%	\$372	-42%
No-fee	2	34	11%	-86%		

Strong on STEM, weak on no-fee. 6% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	33	32	33	32	29	24
%No-fee	33%	31%	33%	31%	31%	38%
Articles	2,213	1,747	2,221	1,168	1,276	917
%No-fee	14%	18%	21%	30%	20%	26%
Change	27%	-21%	90%	-8%	39%	

Erratic growth, continuing shift toward fees.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	6	1,469	0%	\$539
Med.: 60-149	6	342	61%	\$267
Small: 20-59	16	352	30%	\$119
Smallest: 0-19	6	50	12%	\$137

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	5	816	\$708,888	\$869
\$200-\$599	5	447	\$152,700	\$342
\$0.20-\$199	13	630	\$69,665	\$111
No fee	11	320		
Total	34	2,213	\$931,253	\$421

No very expensive journals, but revenue has grown sharply.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	1	5	11	4
No-fee	0	1	1	7	2
Total	2	2	6	18	6

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	8	1,101	18%	\$664
Society/govt	7	632	0%	\$223
Univ/college	12	412	17%	\$124
Open Access	7	68	82%	\$127



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Engineering	2	741	0%	\$860
Zoology	6	547	11%	\$128
Arts & Architecture	2	253	5%	\$379
Medicine	7	192	57%	\$71
Agriculture	3	168	0%	\$160
Earth Sciences	2	106	100%	\$0
Computer Science	1	63	0%	\$1,000
Anthropology	2	40	0%	\$205
Biology	2	30	0%	\$136
Library Science	1	21	100%	\$0
Physics	1	21	0%	\$120
Ecology	2	18	44%	\$56
Other Sciences	1	12	0%	\$719
Chemistry	1	1	100%	\$0
Mathematics	1	0		

# Iran

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	583	21,861			\$79	-93%
Fee	182	8,641	40%	-39%	\$201	-89%
No-fee	401	13,220	60%	73%		
Biomed	249	11,798	54%	45%	\$115	-93%
Fee	54	4,244	36%	-53%	\$318	-85%
No-fee	195	7,554	64%	169%		
STEM	172	5,828	27%	-34%	\$26	-98%
Fee	42	1,960	34%	-56%	\$76	-96%
No-fee	130	3,868	66%	191%		
H&SS	162	4,235	19%	-13%	\$55	-65%
Fee	86	2,437	58%	136%	\$96	-85%
No-fee	76	1,798	42%	-44%		

Light on H&SS—but more fees there than elsewhere. Low costs in general. 14% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	559	568	568	552	535	490
%No-fee	68%	68%	69%	68%	67%	66%
Articles	21,861	21,776	21,333	21,227	21,347	20,156
%No-fee	60%	60%	59%	59%	57%	54%
Change	0%	2%	0%	-1%	6%	

Essentially flat since 2016.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	1	514	0%	\$400
Large: 150-599	18	2,472	33%	\$171
Med.: 60-149	101	6,606	52%	\$111
Small: 20-59	422	11,858	72%	\$31
Smallest: 0-19	41	411	85%	\$14

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$600-\$1,399	7	592	\$408,798	\$691
\$200-\$599	34	2,737	\$959,559	\$351
\$0.20-\$199	141	5,312	\$365,019	\$69
No fee	401	13,220		
Total	583	21,861	\$1,733,376	\$79

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	17	24	43	92	6
No-fee	25	35	65	245	31
Total	42	59	108	337	37

Huge influx of new journals 2011-2015, now back to earlier levels.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	508	18,681	64%	\$69
Society/govt	46	2,033	46%	\$147
Open Access	17	629	44%	\$171
Traditional	12	518	20%	\$64

Predominantly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	233	11,259	64%	\$113
Ecology	31	1,093	56%	\$24
Engineering	23	922	89%	\$11
Agriculture	27	873	39%	\$28
Economics	31	815	37%	\$54
Zoology	13	595	34%	\$82
Chemistry	16	591	67%	\$36
Earth Sciences	20	572	74%	\$23
Biology	16	539	56%	\$140
Education	17	506	52%	\$58
Anthropology	15	499	17%	\$98
Language & Literature	21	482	37%	\$34
Mathematics	15	403	100%	\$0
Religion	18	337	60%	\$24
Psychology	13	331	24%	\$33
Computer Science	11	283	83%	\$12
Sociology	10	215	51%	\$76
Technology	6	213	76%	\$6
Law	8	211	48%	\$18
Physics	8	210	100%	\$0
Political Science	7	177	29%	\$69
Philosophy	5	172	75%	\$13
Library Science	5	155	100%	\$0
Arts & Architecture	4	154	12%	\$240
History	5	128	70%	\$23
Other Sciences	2	73	100%	\$0
Media & Communications	2	31	32%	\$48
Miscellany	1	22	100%	\$0

Unusual: Arts & architecture has the highest average cost.

# Iraq

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	56	2,351			\$101	-92%
Fee	42	1,823	78%	19%	\$130	-93%
No-fee	14	528	22%	-36%		
Biomed	12	349	15%	-60%	\$116	-93%
Fee	11	293	84%	10%	\$138	-93%
No-fee	1	56	16%	-33%		
STEM	31	1,404	60%	47%	\$103	-93%
Fee	23	1,075	77%	-1%	\$134	-93%
No-fee	8	329	23%	3%		
H&SS	13	598	25%	15%	\$87	-45%
Fee	8	455	76%	212%	\$114	-82%
No-fee	5	143	24%	-68%		

Predominantly fee-based, albeit with relatively low fees. High 33% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	54	54	52	44	36	32
%No-fee	26%	26%	23%	25%	22%	19%
Articles	2,351	2,359	2,441	2,287	1,796	1,398
%No-fee	22%	24%	17%	21%	21%	11%
Change	0%	-3%	7%	27%	28%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	5	579	20%	\$135
Med.: 60-149	16	878	14%	\$97
Small: 20-59	31	862	32%	\$83
Smallest: 0-19	4	32	44%	\$51

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$200-\$599	4	303	\$70,426	\$232
\$0.20-\$199	38	1,520	\$165,973	\$109
No fee	14	528		
Total	56	2,351	\$236,399	\$101

The priciest journal charges \$300 (same as last year).

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	1	18	4	13	6
No-fee	0	3	1	4	6
Total	1	21	5	17	12

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	55	2,307	23%	\$101
Open Access	1	44	0%	\$63

Pretty nearly all universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Other Sciences	11	532	26%	\$103
Medicine	12	349	16%	\$116
Engineering	8	309	8%	\$93
Agriculture	3	239	10%	\$181
Education	2	140	0%	\$120
Technology	2	140	100%	\$0
Zoology	4	118	0%	\$102
History	1	103	0%	\$75
Anthropology	2	92	0%	\$100
Miscellany	3	85	100%	\$0
Law	1	72	0%	\$150
Language & Literature	1	48	100%	\$0
Computer Science	2	36	0%	\$87
Chemistry	1	30	0%	\$60
Economics	1	30	0%	\$150
Library Science	1	18	0%	\$168
Arts & Architecture	1	10	100%	\$0

# Saudi Arabia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	15	2,194			\$797	-34%
Fee	5	1,460	67%	2%	\$1,198	-35%
No-fee	10	734	33%	-4%		
Biomed	7	1,301	59%	59%	\$793	-51%
Fee	3	886	68%	-11%	\$1,164	-45%
No-fee	4	415	32%	34%		
STEM	5	868	40%	-3%	\$827	-41%
Fee	2	574	66%	-14%	\$1,250	-31%
No-fee	3	294	34%	48%		
H&SS	3	25	1%	-95%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	3	25	100%	32%		

Almost no H&SS (and no H&SS fees), strong on biomed. 17% *fewer* journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	13	13	14	15	15	15
%No-fee	62%	62%	64%	67%	67%	67%
Articles	2,194	1,288	1,250	1,279	1,035	957
%No-fee	33%	45%	44%	39%	46%	53%
Change	70%	3%	-2%	24%	8%	

Very strong 2020, for the smaller set of journals.



**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	4	1,394	0%	\$1,250
Med.: 60-149	8	775	91%	\$9
Small: 20-59	3	25	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	4	1,394	\$1,742,500	\$1,250
\$0.20-\$199	1	66	\$6,600	\$100
No fee	10	734		
Total	15	2,194	\$1,749,100	\$797

Four journals all charge \$1,250.

**Starting date**

	To 2000	2001-05	2006-10	2011-15
Fee	0	0	5	0
No-fee	2	1	3	4
Total	2	1	8	4

No new journals since 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	9	1,957	29%	\$890
Univ/college	5	143	54%	\$46
Society/govt	1	94	100%	\$0

Mostly traditional publishers, which is unusual.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	6	726	57%	\$431
Biology	1	575	0%	\$1,250
Other Sciences	1	470	0%	\$1,250
Computer Science	1	131	100%	\$0
Chemistry	1	104	0%	\$1,250
Agriculture	1	96	100%	\$0
Engineering	1	67	100%	\$0
Law	1	25	100%	\$0
Education	1	0		
Religion	1	0		

# Turkey

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	432	20,349			\$38	-97%
Fee	29	3,404	17%	-74%	\$227	-88%
No-fee	403	16,945	83%	139%		
Biomed	112	6,409	31%	-15%	\$7	-100%
Fee	3	199	3%	-96%	\$223	-89%
No-fee	109	6,210	97%	307%		
STEM	88	4,467	22%	-46%	\$11	-99%
Fee	4	784	18%	-77%	\$62	-97%
No-fee	84	3,683	82%	261%		
H&SS	232	9,473	47%	110%	\$72	-54%
Fee	22	2,421	26%	5%	\$280	-57%
No-fee	210	7,052	74%	-2%		

Strong on H&SS, predominantly no-fee, relatively low fees when they exist. 7% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	421	421	410	386	346	299
%No-fee	93%	93%	93%	93%	93%	93%
Articles	20,349	18,471	17,591	15,372	13,498	9,860
%No-fee	83%	84%	83%	81%	79%	84%
Change	10%	5%	14%	14%	37%	

Decent growth every year. More than doubled from 2015.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	1	209	100%	\$0
Large: 150-599	24	4,906	52%	\$100
Med.: 60-149	110	7,973	90%	\$29
Small: 20-59	224	6,408	96%	\$8
Smallest: 0-19	73	853	99%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	1	89	\$160,200	\$1,800
\$600-\$1,399	1	5	\$5,235	\$1,047
\$200-\$599	9	1,107	\$459,969	\$416
\$0.20-\$199	18	2,203	\$146,085	\$66
No fee	403	16,945		
Total	432	20,349	\$771,490	\$38

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	4	1	3	18	3
No-fee	41	56	44	175	87
Total	45	57	47	193	90

Still adding new titles at a reasonable rate.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	244	10,955	89%	\$24
Open Access	133	6,404	78%	\$73
Traditional	20	1,652	70%	\$17
Society/govt	35	1,338	75%	\$12

Mostly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	107	6,307	97%	\$7
Economics	35	1,756	43%	\$214
Education	45	1,738	95%	\$16
Agriculture	24	1,551	58%	\$11
Anthropology	20	1,128	49%	\$191
Engineering	14	1,116	100%	\$0
Sociology	23	973	70%	\$24
Language & Literature	17	672	94%	\$26
Religion	22	666	100%	\$0
History	14	478	100%	\$0
Zoology	12	478	74%	\$66
Miscellany	7	412	100%	\$0
Law	5	381	41%	\$18
Arts & Architecture	12	368	57%	\$28
Political Science	12	334	100%	\$0
Mathematics	11	316	100%	\$0
Other Sciences	7	288	100%	\$0
Earth Sciences	10	280	100%	\$0
Media & Communications	11	263	83%	\$6
Technology	3	240	100%	\$0
Psychology	5	183	100%	\$0
Biology	5	102	100%	\$0
Chemistry	3	102	100%	\$0
Library Science	2	97	100%	\$0
Ecology	3	79	100%	\$0
Philosophy	2	24	100%	\$0
Computer Science	1	17	100%	\$0

# United Arab Emirates

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	10	507			\$190	-84%
Fee	7	445	88%	35%	\$217	-88%
No-fee	3	62	12%	-65%		
Biomed	4	166	33%	-12%	\$273	-83%
Fee	2	104	63%	-18%	\$436	-79%
No-fee	2	62	37%	57%		
STEM	3	0	0%	-100%		
H&SS	3	341	67%	203%	\$150	-5%
Fee	2	341	100%	310%	\$150	-77%
No-fee	1	0				

Heavy on H&SS and all fees, no STEM articles. Same journal count as in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	5	10	10	10	9	6
%No-fee	40%	30%	30%	30%	22%	17%
Articles	507	568	547	372	444	216
%No-fee	12%	8%	10%	13%	7%	6%
Change	-11%	4%	47%	-16%	106%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	341	0%	\$150
Med.: 60-149	3	165	37%	\$275
Small: 20-59	2	0		
Smallest: 0-19	4	1	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	1	14	\$27,373	\$1,955
\$200-\$599	5	90	\$18,000	\$200
\$0.20-\$199	1	341	\$51,150	\$150
No fee	3	62		
Total	10	507	\$96,523	\$190

**Starting date**

	2001-05	2006-10	2011-15
Fee	0	1	6
No-fee	2	0	1
Total	2	1	7

No early journals, nothing later than 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	2	341	0%	\$150
Open Access	7	152	41%	\$118
Traditional	1	14	0%	\$1,955

Universities publish the most, but don't charge the most.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Arts & Architecture	1	341	0%	\$150
Medicine	4	166	37%	\$273
Computer Science	1	0		
Economics	1	0		
Education	1	0		
Engineering	1	0		
Other Sciences	1	0		

One large arts & architecture journal.



## Other Middle Eastern Countries

Nine countries, 31 journals (24% more than in GOA5).

### Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	31	1,044			\$40	-97%
Fee	5	231	22%	-66%	\$181	-90%
No-fee	26	813	78%	123%		
Biomed	9	432	41%	11%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	9	432	100%	320%		
STEM	9	226	22%	-47%	\$37	-97%
Fee	2	28	12%	-84%	\$301	-83%
No-fee	7	198	88%	284%		
H&SS	13	386	37%	67%	\$87	-45%
Fee	3	203	53%	116%	\$165	-74%
No-fee	10	183	47%	-37%		

Mostly no-fee, except for H&SS.

### Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	31	27	26	26	26	24
%No-fee	84%	85%	85%	85%	85%	92%
Articles	1,044	823	792	803	902	671
%No-fee	78%	87%	87%	88%	93%	95%
Change	27%	4%	-1%	-11%	34%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	1	0		
Med.: 60-149	4	330	83%	\$26
Small: 20-59	15	305	85%	\$36
Smallest: 0-19	5	59	100%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$600-\$1,399	1	5	\$4,975	\$995
\$0.20-\$199	4	226	\$36,875	\$163
No fee	26	813		
Total	31	1,044	\$41,850	\$40

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	1	0	0	3	1
No-fee	3	1	9	9	4
Total	4	1	9	12	5

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	24	802	85%	\$28
Open Access	7	242	55%	\$79

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	8	419	100%	\$0
Miscellany	3	153	23%	\$116
Engineering	3	138	100%	\$0
Economics	2	101	16%	\$156
Education	2	59	100%	\$0
Language & Literature	1	27	100%	\$0
Mathematics	1	23	0%	\$150
Other Sciences	2	21	76%	\$237
Computer Science	1	16	100%	\$0
Zoology	1	15	100%	\$0
Psychology	1	14	100%	\$0
Agriculture	1	13	100%	\$0
Biology	1	13	100%	\$0
Law	2	12	100%	\$0
Arts & Architecture	1	10	100%	\$0
Library Science	1	10	100%	\$0

**Country Summaries****Bahrain**

One no-fee journal. 118 articles in 2020.

**Israel**

Two no-fee journals. 67 articles in 2020.

**Jordan**

Two fee and two no-fee; 200 articles in 2020.

**Lebanon**

One fee and no-fee journal with 114 articles in 2020.

**Oman**

Six no-fee journals with 291 articles in 2020.

**Palestine**

One no-fee journal with six articles in 2020.

**Qatar**

One fee and seven no-fee journals; 129 articles in 2020.

**Syria**

Two no-fee journals; 26 articles in 2020/

**Yemen**

One fee and four no-fee journals; 93 articles in 2020.

# Pacific/English

Limited tables because of the nature of this “region.”

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	1,072	1,072	1,016	973	884	809
%No-fee	60%	62%	64%	65%	67%	69%
Articles	137,354	114,126	96,592	86,979	83,189	77,185
%No-fee	16%	17%	19%	22%	20%	19%
Change	20%	18%	11%	5%	8%	

## Fees and revenue

	Journals	Articles	Revenue	\$/article
\$1,400+	280	96,039	\$212,068,427	\$2,208
\$600-\$1,399	76	15,158	\$15,852,390	\$1,046
\$200-\$599	59	3,576	\$1,441,334	\$403
\$0.20-\$199	28	929	\$101,276	\$109
No fee	722	21,652		
Total	1,165	137,354	\$229,463,428	\$1,671

## Country of publication

Country	Journals	Articles	%no-fee	\$/article
Australia	115	6,673	31%	\$1,321
Canada	176	8,040	51%	\$1,070
New Zealand	18	368	100%	\$0
United States	856	122,273	12%	\$1,734

# Australia

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	115	6,673			\$1,321	10%
Fee	40	4,592	69%	6%	\$1,919	4%
No-fee	75	2,081	31%	-11%		
Biomed	41	4,569	68%	84%	\$1,767	10%
Fee	27	4,042	88%	16%	\$1,998	-5%
No-fee	14	527	12%	-52%		
STEM	10	834	12%	-69%	\$735	-48%
Fee	4	222	27%	-66%	\$2,761	52%
No-fee	6	612	73%	221%		
H&SS	64	1,270	19%	-14%	\$99	-37%
Fee	9	328	26%	6%	\$382	-41%
No-fee	55	942	74%	-2%		

Heavy on biomed, light on STEM. 8% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	103	102	99	91	82	79
%No-fee	61%	65%	70%	79%	79%	78%
Articles	6,673	5,530	4,880	4,448	3,683	3,325
%No-fee	31%	37%	43%	49%	53%	59%
Change	21%	13%	10%	21%	11%	

Healthy growth every year. Steady move toward fees.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	2	1,519	0%	\$2,064
Large: 150-599	10	2,081	27%	\$1,386
Med.: 60-149	19	1,422	43%	\$997
Small: 20-59	52	1,412	51%	\$950
Smallest: 0-19	32	239	84%	\$147

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	24	3,802	\$8,459,912	\$2,225
\$600-\$1,399	3	226	\$200,200	\$886
\$200-\$599	4	263	\$107,349	\$408
\$0.20-\$199	9	301	\$44,591	\$148
No fee	75	2,081		
Total	115	6,673	\$8,812,052	\$1,321

The priciest journal charges \$5,000; expensive journals account for 57% of articles and 96% of revenues.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	4	2	10	24
No-fee	10	11	19	28	7
Total	10	15	21	38	31

Pace of new journals has slowed, but only slightly.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Open Access	30	3,314	22%	\$1,322
Traditional	26	2,150	7%	\$2,060
Univ/college	52	1,043	100%	\$0
Society/govt	7	166	100%	\$0

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	36	4,216	12%	\$1,737
Biology	5	353	7%	\$2,130
Computer Science	2	291	100%	\$0
Language & Literature	10	273	51%	\$90
Education	11	268	80%	\$29
Mathematics	1	248	100%	\$0
Engineering	5	207	18%	\$2,064
Law	8	138	100%	\$0
Media & Communications	8	100	91%	\$14
Sociology	4	92	46%	\$82
Anthropology	3	72	61%	\$43
Arts & Architecture	2	65	17%	\$1,246
Philosophy	2	58	100%	\$0
Economics	5	55	100%	\$0
Ecology	1	53	0%	\$3,500
Political Science	3	52	100%	\$0
Religion	2	39	100%	\$0
Earth Sciences	1	35	100%	\$0
History	5	34	100%	\$0
Miscellany	1	24	100%	\$0

Medicine is more than 60% of all articles.



# Canada

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	176	8,040			\$1,070	-11%
Fee	34	3,950	49%	-25%	\$2,178	18%
No-fee	142	4,090	51%	46%		
Biomed	40	3,323	41%	11%	\$1,941	21%
Fee	17	2,585	78%	2%	\$2,495	18%
No-fee	23	738	22%	-7%		
STEM	24	1,442	18%	-56%	\$1,284	-9%
Fee	12	1,169	81%	5%	\$1,584	-13%
No-fee	12	273	19%	-17%		
H&SS	112	3,275	41%	84%	\$93	-41%
Fee	5	196	6%	-75%	\$1,554	141%
No-fee	107	3,079	94%	24%		

Strong in H&SS with almost no fees, light in STEM. Bare majority no-fee overall. 10% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	164	167	168	157	146	137
%No-fee	80%	80%	80%	81%	82%	84%
Articles	8,040	6,205	5,616	4,931	4,508	3,967
%No-fee	51%	59%	60%	64%	67%	71%
Change	30%	10%	14%	9%	14%	

Growing every year (strong 2020)—and moving toward fees every year.

### Article volume

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	1,303	0%	\$2,950
Large: 150-599	8	2,423	24%	\$1,536
Med.: 60-149	24	1,651	76%	\$325
Small: 20-59	85	2,159	84%	\$219
Smallest: 0-19	58	504	89%	\$56

That one very large journal keeps growing and getting pricier.

### Fees and revenue

	Journals	Articles	Revenue	\$/article
\$1,400+	17	3,491	\$8,287,250	\$2,374
\$600-\$1,399	5	234	\$253,835	\$1,085
\$200-\$599	10	173	\$61,525	\$356
\$0.20-\$199	2	52	\$1,797	\$35
No fee	142	4,090		
Total	176	8,040	\$8,604,407	\$1,070

Expensive journals—with a very expensive average—make up 97% of revenue and 10% of journals.

### Starting date

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	5	4	16	8
No-fee	23	24	38	43	14
Total	24	29	42	59	22

Some dropoff in new titles.

### Publisher category

Category	Journals	Articles	%No-fee	\$/article
Open Access	50	4,877	27%	\$1,706
Univ/college	95	2,062	97%	\$3
Society/govt	30	1,036	74%	\$184
Traditional	1	65	0%	\$1,350

OA publishers do the most and charge the highest fees.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	38	3,303	22%	\$1,952
Computer Science	6	894	6%	\$1,781
Economics	10	833	100%	\$0
Education	22	541	100%	\$0
Sociology	10	289	100%	\$0
Philosophy	12	249	98%	\$8
Ecology	6	232	17%	\$698
Political Science	7	227	100%	\$0
Psychology	4	219	17%	\$1,367
Language & Literature	11	190	100%	\$0
Media & Communications	6	187	100%	\$0
Anthropology	9	181	96%	\$18
Library Science	3	125	100%	\$0
Mathematics	1	80	100%	\$0
History	7	75	100%	\$0
Other Sciences	2	65	0%	\$1,350
Earth Sciences	3	59	20%	\$18
Arts & Architecture	3	56	100%	\$0
Miscellany	3	54	100%	\$0
Engineering	3	53	68%	\$106
Chemistry	2	50	100%	\$0
Religion	2	34	100%	\$0
Biology	2	20	100%	\$0
Law	3	15	100%	\$0
Zoology	1	9	0%	\$298

Quite a few extremes here in terms of percentages and average costs.

# New Zealand

No fee journals; simplified tables.

## Key facts

	Journals	Articles	Art%	Rel%
All	18	368		
Biomed	3	50	14%	-63%
STEM	5	64	17%	-57%
H&SS	10	254	69%	211%

Mostly H&SS. Same journal count as in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	15	17	17	17	15	14
Articles	368	379	319	352	262	223
Change	-3%	19%	-9%	34%	17%	

Erratic within a small range since 2017.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Med.: 60-149	1	56	15%	56
Small: 20-59	10	258	70%	26
Smallest: 0-19	7	54	15%	8

## Starting date

	To 2000	2001-05	2006-10	2011-15	2016-20
Journals	3	1	2	9	3

Down sharply from the big surge.

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Society/govt	5	156	42%	31
Univ/college	7	131	36%	19
Open Access	5	45	12%	9
Traditional	1	36	10%	36

**Subject**

Subject	Journals	Articles	Art/Jrn
Education	4	122	31
Media & Communications	1	56	56
Biology	1	50	50
Mathematics	2	49	25
Sociology	1	36	36
Economics	3	22	7
Ecology	1	14	14
Philosophy	1	13	13
Political Science	1	5	5
Computer Science	1	1	1
Arts & Architecture	1	0	0
Psychology	1	0	0

Remarkably diverse for such a small set of journals.

# United States

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	856	122,273			\$1,734	44%
Fee	369	107,160	88%	35%	\$1,979	7%
No-fee	487	15,113	12%	-65%		
Biomed	298	48,937	40%	8%	\$2,017	25%
Fee	217	44,099	90%	18%	\$2,238	6%
No-fee	81	4,838	10%	-58%		
STEM	191	63,353	52%	28%	\$1,748	25%
Fee	119	59,858	94%	22%	\$1,850	2%
No-fee	72	3,495	6%	-76%		
H&SS	367	9,983	8%	-63%	\$260	65%
Fee	33	3,203	32%	32%	\$811	26%
No-fee	334	6,780	68%	-10%		

Weak on H&SS, strong on STEM. Very low no-fee percentages. 16% more journals than in GOA5.

## Articles and journals by date

	2020	2019	2018	2017	2016	2015
Journals	790	786	732	708	641	579
%No-fee	55%	57%	59%	59%	62%	63%
Articles	122,273	102,012	85,777	77,248	74,736	69,670
%No-fee	12%	13%	15%	17%	16%	14%
Change	20%	19%	11%	3%	7%	

Growth every year, strong the past three years.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	30	72,880	2%	\$1,927
Large: 150-599	104	24,960	11%	\$1,941
Med.: 60-149	179	14,108	32%	\$1,294
Small: 20-59	329	8,603	62%	\$533
Smallest: 0-19	214	1,722	85%	\$186

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	239	88,746	\$195,321,266	\$2,201
\$600-\$1,399	68	14,698	\$15,398,355	\$1,048
\$200-\$599	45	3,140	\$1,272,460	\$405
\$0.20-\$199	17	576	\$54,888	\$95
No fee	487	15,113		
Total	856	122,273	\$212,046,969	\$1,734

The expensive journals account for 92% of revenue. The priciest journals charge \$5,200.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	15	32	34	162	126
No-fee	56	73	87	199	72
Total	71	105	121	361	198

While 2016-20 is down from 2011-15, it's still very strong.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Society/govt	155	42,661	10%	\$1,829
Open Access	148	37,324	7%	\$1,727
Traditional	223	30,461	7%	\$1,971
Univ/college	330	11,827	52%	\$805

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	255	39,556	11%	\$1,986
Other Sciences	15	22,011	1%	\$2,003
Engineering	14	18,505	0%	\$1,753
Biology	43	9,381	4%	\$2,146
Physics	21	6,469	7%	\$2,212
Chemistry	7	4,467	9%	\$1,205
Computer Science	26	3,390	22%	\$1,011
Education	68	1,906	86%	\$68
Ecology	31	1,882	27%	\$1,125
Mathematics	22	1,847	38%	\$533
Zoology	8	1,640	5%	\$1,810
Anthropology	28	1,626	27%	\$741
Earth Sciences	15	1,400	10%	\$1,315
Agriculture	23	1,225	5%	\$1,829
Sociology	43	1,205	53%	\$461
Language & Literature	47	981	84%	\$42
Miscellany	9	660	15%	\$684
Library Science	26	521	100%	\$0
Technology	9	517	8%	\$1,855
Political Science	18	515	100%	\$0
Philosophy	20	480	93%	\$1
Arts & Architecture	23	457	81%	\$38
Media & Communications	19	425	92%	\$13
History	21	362	100%	\$0
Economics	19	357	52%	\$138
Psychology	11	265	64%	\$389
Law	8	112	69%	\$333
Religion	7	111	100%	\$0

The oddities here are history, library science, political science and religion. The five most common subjects all average more than \$1,750.



# Western Europe

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	4,557	556,049			\$1,811	50%
Fee	2,067	455,590	82%	26%	\$2,210	20%
No-fee	2,490	100,459	18%	-48%		
Biomed	1,402	228,252	41%	10%	\$2,198	37%
Fee	1,101	207,918	91%	20%	\$2,413	14%
No-fee	301	20,334	9%	-63%		
STEM	1,092	263,157	47%	17%	\$1,812	29%
Fee	720	228,389	87%	12%	\$2,088	15%
No-fee	372	34,768	13%	-42%		
H&SS	2,063	64,640	12%	-48%	\$436	177%
Fee	246	19,283	30%	22%	\$1,461	127%
No-fee	1,817	45,357	70%	-7%		

See comments in GOA6. 8% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	4,307	4,346	4,165	3,986	3,738	3,475
%No-fee	53%	55%	56%	56%	56%	56%
Articles	556,049	434,738	367,868	299,319	256,025	228,440
%No-fee	18%	21%	25%	27%	29%	28%
Change	28%	18%	23%	17%	12%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	172	316,722	8%	\$2,171
Large: 150-599	457	111,911	11%	\$1,856
Med.: 60-149	843	62,711	31%	\$1,240
Small: 20-59	2,142	56,271	64%	\$551
Smallest: 0-19	943	8,434	74%	\$333

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	1,267	398,598	\$956,566,550	\$2,400
\$600-\$1,399	603	46,180	\$46,669,005	\$1,011
\$200-\$599	146	8,029	\$3,323,798	\$414
\$0.20-\$199	51	2,783	\$274,924	\$99
No fee	2,490	100,459		
Total	4,557	556,049	\$1,006,834,277	\$1,811

One \$billion in potential fees—95% of it to very expensive journals.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	88	216	416	914	433
No-fee	367	342	436	996	349
Total	455	558	852	1,910	782

While down from 2011-2015, last five years still strong.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	1,789	285,578	13%	\$2,098
Open Access	729	188,111	6%	\$1,876
Univ/college	1,676	59,322	69%	\$687
Society/govt	363	23,038	50%	\$605

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Medicine	1,215	180,284	10%	\$2,126
Biology	187	47,968	3%	\$2,470
Ecology	149	47,803	22%	\$1,639
Other Sciences	46	46,629	2%	\$2,441
Chemistry	74	46,201	7%	\$1,854
Physics	98	30,299	26%	\$1,457
Engineering	109	22,386	5%	\$1,852
Earth Sciences	164	18,981	14%	\$1,703
Agriculture	101	15,994	11%	\$1,830
Computer Science	143	10,599	27%	\$1,291
Mathematics	75	9,555	9%	\$1,747
Zoology	86	9,041	12%	\$1,751
Language & Literature	344	7,205	91%	\$47
Anthropology	219	6,403	66%	\$442
Psychology	72	6,204	15%	\$2,121
Education	194	6,058	72%	\$261
Technology	47	5,669	41%	\$1,002
Sociology	147	5,027	71%	\$377
History	200	4,757	95%	\$18
Arts & Architecture	171	4,478	77%	\$248
Miscellany	59	4,378	73%	\$337
Economics	128	3,868	50%	\$580
Media & Communications	118	3,659	80%	\$157
Law	117	3,475	86%	\$173
Political Science	114	3,143	80%	\$227
Religion	51	2,656	47%	\$363
Philosophy	85	2,138	86%	\$229
Library Science	44	1,191	91%	\$95

**Country of publication**

<b>Country</b>	<b>Journals</b>	<b>Articles</b>	<b>%no-fee</b>	<b>\$/article</b>
Åland Islands	1	5	100%	\$0
Austria	57	1,470	77%	\$164
Belgium	47	736	97%	\$30
Denmark	28	446	95%	\$21
Finland	50	1,409	83%	\$144
France	241	20,098	88%	\$184
Germany	276	23,801	59%	\$616
Greece	36	1,703	72%	\$237
Iceland	7	329	100%	\$0
Ireland	17	668	43%	\$963
Italy	413	13,633	72%	\$276
Luxembourg	3	26	100%	\$0
Malta	2	30	100%	\$0
Netherlands	255	32,821	23%	\$1,362
Norway	112	2,894	91%	\$79
Portugal	131	4,026	78%	\$177
Spain	787	25,294	88%	\$125
Sweden	43	1,939	67%	\$553
Switzerland	356	213,601	1%	\$2,205
United Kingdom	1,695	211,120	7%	\$2,190

# Austria

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	57	1,470			\$164	-86%
Fee	12	334	23%	-65%	\$723	-61%
No-fee	45	1,136	77%	121%		
Biomed	6	126	9%	-77%	\$1,222	-24%
Fee	3	126	100%	31%	\$1,222	-42%
No-fee	3	0	0%	-100%		
STEM	12	418	28%	-30%	\$133	-91%
Fee	4	108	26%	-67%	\$515	-72%
No-fee	8	310	74%	225%		
H&SS	39	926	63%	184%	\$34	-78%
Fee	5	100	11%	-56%	\$318	-51%
No-fee	34	826	89%	18%		

Mostly H&SS with almost no fees, but all fees for biomed and mostly fees for STEM. 8% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	51	51	52	54	49	44
%No-fee	76%	76%	79%	80%	82%	82%
Articles	1,470	1,371	1,301	1,307	1,330	1,156
%No-fee	77%	78%	73%	72%	76%	71%
Change	7%	5%	0%	-2%	15%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	162	100%	\$0
Med.: 60-149	8	497	67%	\$283
Small: 20-59	33	685	77%	\$142
Smallest: 0-19	15	126	91%	\$29

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	3	126	\$153,950	\$1,222
\$200-\$599	8	190	\$85,510	\$450
\$0.20-\$199	1	18	\$1,890	\$105
No fee	45	1,136		
Total	57	1,470	\$241,351	\$164

The priciest journals charge \$1,356.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	1	2	6	3
No-fee	6	5	8	22	4
Total	6	6	10	28	7

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	32	806	90%	\$54
Society/govt	13	475	73%	\$93
Open Access	9	179	30%	\$860
Traditional	3	10	100%	\$0

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Media & Communications	4	188	100%	\$0
Physics	1	162	100%	\$0
Education	3	126	91%	\$29
Political Science	7	109	100%	\$0
History	7	102	100%	\$0
Earth Sciences	5	95	18%	\$441
Religion	3	77	100%	\$0
Biology	2	68	0%	\$1,356
Computer Science	1	68	100%	\$0
Library Science	1	66	100%	\$0
Philosophy	3	64	100%	\$0
Medicine	4	58	0%	\$1,065
Law	2	48	2%	\$312
Arts & Architecture	2	42	100%	\$0
Mathematics	1	41	100%	\$0
Language & Literature	2	35	100%	\$0
Agriculture	1	30	0%	\$456
Anthropology	2	28	68%	\$146
Miscellany	1	18	0%	\$105
Ecology	2	15	100%	\$0
Economics	1	15	0%	\$479
Sociology	1	8	100%	\$0
Engineering	1	7	100%	\$0

Distinctive, with the largest two subjects entirely no-fee and biology more expensive than any other subject.

# Belgium

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	47	736			\$30	-98%
Fee	2	25	3%	-95%	\$877	-53%
No-fee	45	711	97%	177%		
Biomed	2	23	3%	-92%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	2	23	100%	320%		
STEM	20	393	53%	31%	\$52	-96%
Fee	1	20	5%	-93%	\$1,025	-44%
No-fee	19	373	95%	316%		
H&SS	25	320	43%	96%	\$4	-97%
Fee	1	5	2%	-94%	\$285	-56%
No-fee	24	315	98%	30%		

Almost no biomed. Almost no fees. Strong in H&SS. 15% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	40	42	42	44	44	42
%No-fee	95%	95%	95%	95%	95%	98%
Articles	736	742	848	770	907	842
%No-fee	97%	99%	99%	99%	99%	98%
Change	-1%	-13%	10%	-15%	8%	



**Article volume**

	Journals	Articles	%No-fee	\$/article
Med.: 60-149	2	79	100%	\$0
Small: 20-59	35	602	97%	\$34
Smallest: 0-19	10	55	91%	\$26

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	1	20	\$20,509	\$1,025
\$200-\$599	1	5	\$1,424	\$285
No fee	45	711		
Total	47	736	\$21,933	\$30

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	1	1	0
No-fee	7	3	8	23	4
Total	7	3	9	24	4

The typical dropoff of new titles in 2016-20 after a strong 2011-15.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	20	345	100%	\$0
Society/govt	20	293	100%	\$0
Open Access	7	98	74%	\$224

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Language & Literature	10	182	100%	\$0
Computer Science	8	121	100%	\$0
Technology	4	91	100%	\$0
Earth Sciences	3	76	100%	\$0
Agriculture	3	68	100%	\$0
Media & Communications	2	34	100%	\$0
Arts & Architecture	2	27	100%	\$0
Medicine	2	23	100%	\$0
Religion	1	21	100%	\$0
Ecology	1	20	0%	\$1,025
Zoology	1	17	100%	\$0
Political Science	2	13	100%	\$0
Education	3	10	100%	\$0
Law	1	10	100%	\$0
Sociology	1	10	100%	\$0
Economics	2	8	100%	\$0
Psychology	1	5	0%	\$285
Language & Literature	10	182	100%	\$0

# Denmark

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	28	446			\$21	-98%
Fee	1	23	5%	-92%	\$399	-78%
No-fee	27	423	95%	172%		
Biomed	1	0	0%	-100%		
STEM	3	56	13%	-69%	\$21	-99%
Fee	0	0	0%	-100%	\$399	-78%
No-fee	3	56	100%	338%		
H&SS	25	390	87%	294%	\$24	-85%
Fee	1	23	6%	-76%	\$399	-38%
No-fee	24	367	94%	24%		

No biomed, very little STEM (and no fees), only one fee journal. 3% fewer journals (that is, one less) than in GOA4.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	25	26	26	24	25	21
%No-fee	96%	96%	96%	96%	96%	95%
Articles	446	479	420	394	443	392
%No-fee	95%	94%	93%	91%	95%	91%
Change	-7%	14%	7%	-11%	13%	

Variable within a narrow range.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Small: 20-59	17	356	94%	\$26
Smallest: 0-19	11	90	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$200-\$599	1	23	\$9,172	\$399
No fee	27	423		
Total	28	446	\$9,172	\$21

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	0	1	0
No-fee	1	4	3	16	3
Total	1	4	3	17	3

The typical dropoff after 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	23	391	94%	\$23
Open Access	3	47	100%	\$0
Society/govt	1	8	100%	\$0
Traditional	1	0		

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Media & Communications	4	84	100%	\$0
Economics	3	65	65%	\$141
Education	4	65	100%	\$0
Anthropology	4	62	100%	\$0
Political Science	2	41	100%	\$0
Ecology	1	40	100%	\$0
Arts & Architecture	1	17	100%	\$0
Earth Sciences	2	16	100%	\$0
Language & Literature	1	16	100%	\$0
Philosophy	1	13	100%	\$0
Religion	1	13	100%	\$0
Psychology	1	10	100%	\$0
Law	2	4	100%	\$0
Sociology	1	0		

Surprisingly diverse for so few journals. Only economics has fees.

# Finland

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	50	1,409			\$144	-88%
Fee	5	235	17%	-74%	\$865	-53%
No-fee	45	1,174	83%	139%		
Biomed	6	279	20%	-47%	\$431	-73%
Fee	3	146	52%	-31%	\$823	-61%
No-fee	3	133	48%	100%		
STEM	10	403	29%	-30%	\$206	-85%
Fee	2	89	22%	-71%	\$933	-49%
No-fee	8	314	78%	241%		
H&SS	34	727	52%	133%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	34	727	100%	32%		

Four-fifths no-fee including all of H&SS, but biomed is mostly fee. A huge 61% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	48	48	48	45	46	43
%No-fee	90%	90%	90%	89%	89%	88%
Articles	1,409	1,382	1,353	1,198	1,188	1,024
%No-fee	83%	83%	81%	82%	83%	80%
Change	2%	2%	13%	1%	16%	

Growing every year, albeit slowly since 2018.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	1	143	100%	\$0
Med.: 60-149	5	340	59%	\$345
Small: 20-59	27	767	88%	\$112
Smallest: 0-19	17	159	100%	\$0

No very large, and the large journal is no-fee.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1.399	4	227	\$200,984	\$885
\$200-\$599	1	8	\$2,279	\$285
No fee	45	1,174	\$0	\$0
Total	50	1,409	\$203,262	\$144

Priciest journal: still \$960.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	1	1	1	0
No-fee	8	9	9	16	3
Total	10	10	10	17	3

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	20	649	73%	\$241
Society/govt	25	542	91%	\$82
Open Access	5	218	96%	\$10

Mostly universities. Less common: universities charge the most.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Anthropology	10	184	100%	\$0
Computer Science	2	143	100%	\$0
Medicine	4	141	94%	\$16
Biology	2	138	0%	\$854
History	5	112	100%	\$0
Agriculture	2	100	51%	\$447
Religion	5	92	100%	\$0
Language & Literature	4	78	100%	\$0
Earth Sciences	3	71	44%	\$541
Mathematics	1	61	100%	\$0
Sociology	1	46	100%	\$0
Political Science	1	41	100%	\$0
Library Science	1	40	100%	\$0
Philosophy	3	40	100%	\$0
Economics	1	38	100%	\$0
Miscellany	1	28	100%	\$0
Engineering	1	26	100%	\$0



# France

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	241	20,098			\$184	-85%
Fee	26	2,410	12%	-82%	\$1,537	-17%
No-fee	215	17,688	88%	152%		
Biomed	7	1,133	6%	-85%	\$192	-88%
Fee	3	127	11%	-85%	\$1,709	-19%
No-fee	4	1,006	89%	273%		
STEM	59	14,190	71%	74%	\$245	-83%
Fee	21	2,245	16%	-79%	\$1,548	-15%
No-fee	38	11,945	84%	269%		
H&SS	175	4,775	24%	7%	\$3	-98%
Fee	2	38	1%	-97%	\$349	-46%
No-fee	173	4,737	99%	31%		

Predominantly no-fee and mostly STEM. 5% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	212	227	226	218	214	211
%No-fee	88%	89%	89%	89%	90%	91%
Articles	20,098	19,112	24,094	15,784	13,039	8,287
%No-fee	88%	84%	86%	76%	80%	75%
Change	5%	-21%	53%	21%	57%	

Drop in 2019 after three very strong years.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	5	13,565	89%	\$185
Large: 150-599	5	824	83%	\$140
Med.: 60-149	36	2,059	80%	\$295
Small: 20-59	136	3,320	89%	\$132
Smallest: 0-19	59	330	94%	\$98

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	16	1,996	\$3,407,273	\$1,707
\$600-\$1,399	6	296	\$261,365	\$883
\$200-\$599	2	60	\$31,333	\$522
\$0.20-\$199	2	58	\$5,275	\$91
No fee	215	17,688		
Total	241	20,098	\$3,705,246	\$184

All but one of the expensive journals charge \$1,709. Those 16 journals publish 10% of the articles and get 92% of the fees.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	1	3	16	6
No-fee	22	54	58	68	13
Total	22	55	61	84	19

The typical post-2015 drop after 15 strong years.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Traditional	36	14,899	86%	\$224
Univ/college	125	3,126	91%	\$114
Society/govt	40	1,204	97%	\$8
Open Access	40	869	95%	\$5

Traditional publishers dominate, which is unusual.

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Ecology	8	8,900	100%	\$5
Physics	4	1,545	2%	\$1,657
Technology	2	1,511	97%	\$45
Miscellany	9	1,174	100%	\$0
Biology	2	928	100%	\$0
Language & Literature	58	892	100%	\$0
History	24	685	100%	\$0
Earth Sciences	12	654	63%	\$379
Computer Science	7	568	63%	\$533
Sociology	17	553	100%	\$0
Anthropology	23	538	100%	\$0
Agriculture	7	313	100%	\$0
Zoology	4	262	100%	\$0
Medicine	5	205	38%	\$1,059
Media & Communications	8	192	91%	\$4
Political Science	8	174	100%	\$0
Mathematics	7	168	74%	\$257
Engineering	5	161	0%	\$1,154
Education	6	147	100%	\$0
Arts & Architecture	7	131	100%	\$0
Philosophy	6	103	100%	\$0
Chemistry	2	94	100%	\$0
Economics	4	90	78%	\$139
Law	3	69	100%	\$0
Religion	2	27	100%	\$0
Other Sciences	1	14	0%	\$1,709

Ecology by far the largest (with 0.3% fee articles).

# Germany

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	276	23,801			\$616	-49%
Fee	96	9,640	41%	-38%	\$1,521	-18%
No-fee	180	14,161	59%	70%		
Biomed	44	3,756	16%	-58%	\$970	-40%
Fee	25	1,507	40%	-47%	\$2,418	15%
No-fee	19	2,249	60%	152%		
STEM	121	16,413	69%	70%	\$639	-55%
Fee	58	6,693	41%	-47%	\$1,566	-14%
No-fee	63	9,720	59%	159%		
H&SS	111	3,632	15%	-31%	\$148	-6%
Fee	13	1,440	40%	63%	\$373	-42%
No-fee	98	2,192	60%	-20%		

Mostly STEM, mostly no-fee. 6% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	258	262	253	247	233	227
%No-fee	64%	65%	66%	65%	64%	64%
Articles	23,801	21,815	21,900	18,715	18,464	16,647
%No-fee	59%	62%	58%	62%	64%	60%
Change	9%	0%	17%	1%	11%	

A return to growth in 2020.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	9	10,027	76%	\$523
Large: 150-599	26	6,119	32%	\$853
Med.: 60-149	54	3,916	53%	\$756
Small: 20-59	128	3,241	67%	\$351
Smallest: 0-19	59	498	80%	\$207

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	36	3,197	\$9,934,761	\$3,108
\$600-\$1,399	35	3,769	\$3,892,735	\$1,033
\$200-\$599	19	1,752	\$761,900	\$435
\$0.20-\$199	6	922	\$72,293	\$78
No fee	180	14,161		
Total	276	23,801	\$14,661,690	\$616

The expensive journals are *very* expensive. The priciest three have \$5,000 fees.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	6	16	16	48	10
No-fee	25	23	30	76	26
Total	31	39	46	124	36

Although down from 2011-15, 2016-20 introductions are strong.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	89	10,668	66%	\$927
Open Access	75	7,700	36%	\$557
Univ/college	95	4,954	79%	\$91
Society/govt	17	479	83%	\$66

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Physics	13	5,960	96%	\$83
Medicine	35	3,413	61%	\$876
Ecology	15	2,622	16%	\$946
Earth Sciences	33	2,251	30%	\$632
Computer Science	14	1,994	80%	\$263
Chemistry	6	1,069	40%	\$643
Education	14	938	38%	\$370
Other Sciences	7	916	6%	\$4,582
Religion	6	733	11%	\$51
Technology	5	480	17%	\$562
Agriculture	8	427	90%	\$45
Biology	9	343	45%	\$1,909
Anthropology	11	340	80%	\$226
Engineering	9	270	49%	\$220
Sociology	9	264	100%	\$0
Zoology	7	260	26%	\$1,254
Language & Literature	16	227	99%	\$3
Psychology	10	201	88%	\$23
Media & Communications	6	192	73%	\$212
Mathematics	4	164	100%	\$0
Law	6	163	100%	\$0
Library Science	4	158	100%	\$0
Political Science	8	133	100%	\$0
History	6	92	55%	\$102
Economics	6	70	100%	\$0
Miscellany	4	54	100%	\$0
Arts & Architecture	3	53	60%	\$392
Philosophy	2	14	100%	\$0

# Greece

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	36	1,703			\$237	-80%
Fee	9	471	28%	-58%	\$857	-54%
No-fee	27	1,232	72%	107%		
Biomed	12	860	50%	36%	\$371	-77%
Fee	5	214	25%	-67%	\$1,491	-29%
No-fee	7	646	75%	216%		
STEM	6	447	26%	-35%	\$183	-87%
Fee	2	226	51%	-34%	\$362	-80%
No-fee	4	221	49%	117%		
H&SS	18	396	23%	5%	\$7	-95%
Fee	2	31	8%	-68%	\$95	-85%
No-fee	16	365	92%	22%		

Almost three-quarters no-fee, slightly heavy on biomed. 6% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	33	35	35	34	30	27
%No-fee	73%	74%	77%	76%	80%	81%
Articles	1,703	1,718	1,625	1,353	1,075	747
%No-fee	72%	67%	71%	77%	84%	85%
Change	-1%	6%	20%	26%	44%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	6	960	66%	\$297
Med.: 60-149	4	208	89%	\$25
Small: 20-59	21	479	76%	\$220
Smallest: 0-19	5	56	82%	\$142

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	2	150	\$309,112	\$2,061
\$600-\$1,399	1	10	\$7,976	\$798
\$200-\$599	2	239	\$79,122	\$331
\$0.20-\$199	4	72	\$7,622	\$106
No fee	27	1,232		
Total	36	1,703	\$403,832	\$237

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	1	0	5	3
No-fee	2	3	11	8	3
Total	2	4	11	13	6

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	21	791	96%	\$4
Open Access	12	668	34%	\$600
Traditional	1	182	100%	\$0
Society/govt	2	62	100%	\$0
Society/govt	1	20	100%	\$0



**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	12	860	75%	\$371
Engineering	2	343	37%	\$215
Sociology	2	99	100%	\$0
Arts & Architecture	3	93	100%	\$0
Education	3	82	100%	\$0
Zoology	1	59	100%	\$0
Economics	4	40	23%	\$74
History	3	39	100%	\$0
Anthropology	1	25	100%	\$0
Earth Sciences	1	22	100%	\$0
Language & Literature	2	18	100%	\$0
Mathematics	1	13	100%	\$0
Chemistry	1	10	0%	\$798

# Ireland

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	17	668			\$963	-20%
Fee	3	380	57%	-13%	\$1,694	-8%
No-fee	14	288	43%	24%		
Biomed	4	352	53%	42%	\$1,474	-8%
Fee	2	307	87%	14%	\$1,690	-20%
No-fee	2	45	13%	-46%		
STEM	3	94	14%	-65%	\$1,327	-5%
Fee	1	73	78%	1%	\$1,709	-6%
No-fee	2	21	22%	-2%		
H&SS	10	222	33%	50%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	10	222	100%	32%		

No fees in H&SS, mostly fees elsewhere. 6% more journals than GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	15	16	16	15	14	9
%No-fee	80%	81%	81%	80%	86%	89%
Articles	668	637	523	361	321	267
%No-fee	43%	52%	49%	54%	64%	36%
Change	5%	22%	45%	12%	20%	

Growth every year, more than doubled since 2016.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	1	201	0%	\$1,680
Med.: 60-149	5	336	47%	\$910
Small: 20-59	3	69	100%	\$0
Smallest: 0-19	8	62	100%	\$0

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	3	380	\$643,602	\$1,694
No fee	14	288		
Total	17	668	\$643,602	\$963

**Starting date**

	<b>To 2000</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	0	0	2	1
No-fee	1	1	10	2
Total	1	1	12	3

Note the missing column: no new journals 2001-2005.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Traditional	3	380	0%	\$1,694
Univ/college	8	182	100%	\$0
Society/govt	3	59	100%	\$0
Open Access	3	47	100%	\$0

No additional comment required.

**Subject**

<b>Subject</b>	<b>Journ</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	4	352	13%	\$1,474
Religion	1	85	100%	\$0
Physics	1	73	0%	\$1,709
Media & Communications	2	58	100%	\$0
Language & Literature	2	36	100%	\$0
Education	2	19	100%	\$0
Anthropology	1	17	100%	\$0
Earth Sciences	1	15	100%	\$0
Arts & Architecture	1	7	100%	\$0
Engineering	1	6	100%	\$0
Economics	1	0		

# Italy

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	413	13,633			\$276	-77%
Fee	71	3,757	28%	-58%	\$1,001	-46%
No-fee	342	9,876	72%	108%		
Biomed	61	3,326	24%	-34%	\$919	-43%
Fee	35	2,479	75%	-2%	\$1,232	-42%
No-fee	26	847	25%	7%		
STEM	61	2,505	18%	-55%	\$246	-82%
Fee	15	765	31%	-60%	\$807	-56%
No-fee	46	1,740	69%	204%		
H&SS	291	7,802	57%	158%	\$12	-93%
Fee	21	513	7%	-73%	\$175	-73%
No-fee	270	7,289	93%	24%		

Strong on H&SS. 8% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	383	401	388	370	347	317
%No-fee	83%	83%	82%	82%	82%	81%
Articles	13,633	12,677	12,047	11,657	10,927	10,025
%No-fee	72%	75%	75%	76%	76%	77%
Change	8%	5%	3%	7%	9%	

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	14	3,039	46%	\$868
Med.: 60-149	52	3,422	72%	\$148
Small: 20-59	254	6,295	83%	\$88
Smallest: 0-19	93	877	91%	\$75

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	8	1,182	\$2,578,202	\$2,181
\$600-\$1,399	22	737	\$653,907	\$887
\$200-\$599	21	1,254	\$475,172	\$379
\$0.20-\$199	20	584	\$54,677	\$94
No fee	342	9,876		
Total	413	13,633	\$3,761,959	\$276

The priciest journal charges \$2,400.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	3	10	21	30	7
No-fee	29	44	68	149	52
Total	32	54	89	179	59

Substantial drop in 2016-20 but still healthy rate of new journals.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	254	7,189	92%	\$18
Open Access	97	3,685	48%	\$355
Society/govt	37	1,746	55%	\$708
Traditional	25	1,013	51%	\$1,077

**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Medicine	54	3,212	25%	\$943
Language & Literature	64	1,938	87%	\$14
Arts & Architecture	38	1,090	92%	\$16
Law	23	860	100%	\$0
History	34	727	89%	\$7
Philosophy	26	533	100%	\$0
Agriculture	15	496	53%	\$337
Anthropology	22	475	100%	\$0
Education	14	413	100%	\$0
Earth Sciences	10	380	88%	\$106
Physics	2	351	100%	\$0
Sociology	12	341	100%	\$0
Ecology	6	333	61%	\$92
Media & Communications	13	320	100%	\$0
Psychology	13	289	77%	\$129
Political Science	13	269	100%	\$0
Technology	2	217	12%	\$1,312
Engineering	1	196	100%	\$0
Zoology	9	166	93%	\$19
Religion	3	157	100%	\$0
Economics	8	151	81%	\$27
Mathematics	8	149	81%	\$13
Library Science	4	135	100%	\$0
Other Sciences	5	131	46%	\$220
Biology	7	114	35%	\$228
Miscellany	4	104	100%	\$0
Chemistry	1	56	0%	\$1,082
Computer Science	2	30	100%	\$0

Only technology and chemistry have four-digit averages.

# Netherlands

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	255	32,821			\$1,362	13%
Fee	147	25,413	77%	19%	\$1,759	-5%
No-fee	108	7,408	23%	-35%		
Biomed	111	19,399	59%	59%	\$1,734	8%
Fee	86	17,085	88%	16%	\$1,969	-7%
No-fee	25	2,314	12%	-50%		
STEM	79	11,082	34%	-17%	\$949	-32%
Fee	46	7,819	71%	-9%	\$1,344	-26%
No-fee	33	3,263	29%	29%		
H&SS	65	2,340	7%	-68%	\$242	54%
Fee	15	509	22%	-11%	\$1,112	72%
No-fee	50	1,831	78%	3%		

Expensive; heavy and low on no-fee for biomed. 11% more journals than in GOA5. 89% of articles published by Elsevier.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	243	239	205	200	194	171
%No-fee	42%	41%	47%	48%	47%	49%
Articles	32,821	20,711	17,525	15,707	15,014	11,876
%No-fee	23%	28%	34%	36%	36%	42%
Change	58%	18%	12%	5%	26%	

Very strong 2020.



**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	9	10,680	11%	\$1,937
Large: 150-599	47	13,368	17%	\$1,268
Med.: 60-149	69	5,461	45%	\$750
Small: 20-59	96	3,013	49%	\$883
Smallest: 0-19	34	299	43%	\$1,072

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	84	14,641	\$35,512,001	\$2,426
\$600-\$1,399	47	8,929	\$8,564,701	\$959
\$200-\$599	14	1,368	\$579,725	\$424
\$0.20-\$199	2	475	\$53,801	\$113
No fee	108	7,408		
Total	255	32,821	\$44,710,227	\$1,362

The expensive journals are *very* expensive and there are lots of them. Priciest journal charges \$5,200.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	2	2	10	89	44
No-fee	10	6	12	60	20
Total	12	8	22	149	64

New journals continue to emerge frequently, but fewer than 2010-15.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	196	30,436	20%	\$1,452
Univ/college	38	1,189	68%	\$379
Open Access	14	968	50%	\$64
Society/govt	7	228	77%	\$70

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	94	16,696	14%	\$1,445
Biology	17	2,703	1%	\$3,516
Physics	12	2,395	61%	\$509
Engineering	12	2,368	10%	\$975
Ecology	13	1,131	25%	\$1,350
Chemistry	5	1,118	25%	\$925
Other Sciences	3	1,054	0%	\$589
Computer Science	6	794	14%	\$1,876
Zoology	6	702	17%	\$1,267
Earth Sciences	10	655	69%	\$501
Technology	5	579	25%	\$1,632
Political Science	5	354	83%	\$163
Anthropology	5	295	48%	\$577
Agriculture	5	259	59%	\$578
Law	6	253	12%	\$1,046
History	5	242	100%	\$0
Sociology	7	208	100%	\$0
Economics	8	207	98%	\$1
Language & Literature	10	158	87%	\$57
Library Science	3	145	100%	\$0
Education	3	140	93%	\$50
Religion	3	130	100%	\$0
Arts & Architecture	6	113	67%	\$504
Media & Communications	3	95	100%	\$0
Mathematics	2	27	100%	\$0
Psychology	1	0		

Medicine may have by far the most articles, but biology has a staggeringly high average cost per article.

# Norway

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	112	2,894			\$79	-93%
Fee	13	246	9%	-87%	\$929	-50%
No-fee	99	2,648	91%	162%		
Biomed	7	1,055	36%	-2%	\$7	-100%
Fee	1	17	2%	-98%	\$456	-78%
No-fee	6	1,038	98%	313%		
STEM	8	91	3%	-92%	\$658	-53%
Fee	2	40	44%	-43%	\$1,496	-18%
No-fee	6	51	56%	145%		
H&SS	97	1,748	60%	172%	\$92	-41%
Fee	10	189	11%	-56%	\$852	32%
No-fee	87	1,559	89%	18%		

Ten of eleven articles no-fee; mostly H&SS. 11% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	104	105	102	96	75	68
%No-fee	88%	89%	89%	89%	87%	88%
Articles	2,894	2,763	2,828	2,694	2,459	2,580
%No-fee	91%	91%	91%	93%	93%	95%
Change	5%	-2%	5%	10%	-5%	

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	1	961	100%	\$0
Small: 20-59	62	1,453	85%	\$139
Smallest: 0-19	49	480	93%	\$56

No large or medium journals, but one very large.

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	1	30	\$54,006	\$1,800
\$600-\$1,399	8	164	\$155,648	\$949
\$200-\$599	4	52	\$18,892	\$363
No fee	99	2,648		
Total	112	2,894	\$228,547	\$79

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	0	0	2	6	5
No-fee	6	9	18	37	29
Total	6	9	20	43	34

Activity in new journals is unusually strong 2016-2020.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	79	2,303	94%	\$47
Open Access	15	293	68%	\$362
Society/govt	9	173	100%	\$0
Traditional	9	125	82%	\$117

Predominantly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	7	1,055	98%	\$7
Education	18	359	79%	\$192
Language & Literature	17	223	100%	\$0
Anthropology	9	207	100%	\$0
Sociology	11	207	88%	\$26
History	6	151	100%	\$0
Arts & Architecture	9	122	83%	\$219
Religion	6	115	70%	\$220
Law	6	81	77%	\$311
Media & Communications	4	75	100%	\$0
Miscellany	1	53	100%	\$0
Political Science	2	48	100%	\$0
Economics	3	42	100%	\$0
Other Sciences	2	40	0%	\$1,496
Philosophy	2	36	61%	\$268
Zoology	5	32	100%	\$0
Library Science	2	24	100%	\$0
Computer Science	1	19	100%	\$0
Psychology	1	5	100%	\$0

# Portugal

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	131	4,026			\$177	-85%
Fee	10	898	22%	-66%	\$793	-57%
No-fee	121	3,128	78%	123%		
Biomed	20	910	23%	-39%	\$0	-100%
Fee	0	0	0%	-100%	\$0	-100%
No-fee	20	910	100%	320%		
STEM	11	212	5%	-87%	\$0	-100%
Fee	1	0	0%	-100%	\$0	-100%
No-fee	10	212	100%	338%		
H&SS	100	2,904	72%	225%	\$245	56%
Fee	9	898	31%	27%	\$793	23%
No-fee	91	2,006	69%	-9%		

The only fees are in H&SS. 25% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	122	125	127	126	119	111
%No-fee	93%	92%	92%	92%	92%	92%
Articles	4,026	3,577	3,847	3,585	3,178	2,845
%No-fee	78%	82%	83%	83%	86%	86%
Change	13%	-7%	7%	13%	12%	

A good year after a slightly down 2019.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Large: 150-599	4	756	30%	\$715
Med.: 60-149	20	1,182	81%	\$116
Small: 20-59	71	1,728	91%	\$20
Smallest: 0-19	36	360	100%	\$0

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$600-\$1,399	4	653	\$669,611	\$1,025
\$200-\$599	3	99	\$25,255	\$255
\$0.20-\$199	3	146	\$16,920	\$116
No fee	121	3,128		
Total	131	4,026	\$711,786	\$177

Four journals all charge \$1,025 (same publisher).

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	1	1	1	7	0
No-fee	16	15	25	56	9
Total	17	16	26	63	9

Typical sharp drop after 2015.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Univ/college	97	2,467	95%	\$11
Open Access	14	829	18%	\$816
Society/govt	20	730	87%	\$11

Not unusual: universities publish the most, OA publishers charge the most.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	20	910	100%	\$0
Media & Communications	13	464	61%	\$396
Arts & Architecture	12	427	47%	\$362
History	13	306	100%	\$0
Sociology	7	285	44%	\$576
Political Science	5	270	30%	\$714
Anthropology	12	256	80%	\$35
Language & Literature	11	194	100%	\$0
Philosophy	5	143	100%	\$0
Psychology	3	134	30%	\$60
Earth Sciences	4	126	100%	\$0
Education	7	120	100%	\$0
Miscellany	3	105	100%	\$0
Library Science	3	89	100%	\$0
Economics	4	83	100%	\$0
Computer Science	3	64	100%	\$0
Engineering	1	16	100%	\$0
Law	1	16	100%	\$0
Religion	1	12	100%	\$0
Technology	1	6	100%	\$0
Agriculture	1	0		
Ecology	1	0		



# Spain

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	787	25,294			\$125	-90%
Fee	37	3,083	12%	-81%	\$1,023	-45%
No-fee	750	22,211	88%	152%		
Biomed	71	6,316	25%	-33%	\$380	-76%
Fee	12	1,802	29%	-63%	\$1,332	-37%
No-fee	59	4,514	71%	200%		
STEM	67	1,969	8%	-81%	\$98	-93%
Fee	8	342	17%	-77%	\$566	-69%
No-fee	59	1,627	83%	262%		
H&SS	649	17,009	67%	203%	\$33	-79%
Fee	17	939	6%	-77%	\$596	-8%
No-fee	632	16,070	94%	25%		

Two-thirds H&SS. 5% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	746	767	764	747	723	690
%No-fee	95%	95%	95%	95%	95%	96%
Articles	25,294	23,997	23,490	23,039	20,827	18,707
%No-fee	88%	88%	89%	90%	90%	90%
Change	5%	2%	2%	11%	11%	

Relatively flat since 2017.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	2	1,520	100%	\$0
Large: 150-599	22	3,382	43%	\$598
Med.: 60-149	91	5,648	86%	\$154
Small: 20-59	482	12,776	97%	\$19
Smallest: 0-19	190	1,968	98%	\$8

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	9	1,046	\$2,103,892	\$2,011
\$600-\$1,399	7	729	\$637,644	\$875
\$200-\$599	14	1,032	\$374,410	\$363
\$0.20-\$199	7	276	\$36,811	\$133
No fee	750	22,211		
Total	787	25,294	\$3,152,757	\$125

The priciest journal charges \$4,000.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	9	5	3	15	5
No-fee	200	120	124	255	51
Total	209	125	127	270	56

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Univ/college	600	15,593	95%	\$29
Traditional	31	4,678	66%	\$489
Society/govt	91	3,222	84%	\$99
Open Access	65	1,801	85%	\$52

Predominantly universities.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	69	6,313	71%	\$380
Language & Literature	109	2,426	100%	\$0
Anthropology	79	2,119	86%	\$37
History	79	1,977	97%	\$5
Education	71	1,884	98%	\$8
Arts & Architecture	56	1,350	100%	\$0
Media & Communications	41	1,288	85%	\$68
Sociology	42	1,257	97%	\$4
Law	37	1,167	100%	\$0
Philosophy	24	807	100%	\$0
Political Science	27	800	100%	\$0
Psychology	22	672	58%	\$492
Economics	28	440	93%	\$77
Earth Sciences	17	389	100%	\$0
Religion	10	349	100%	\$0
Miscellany	14	334	100%	\$0
Agriculture	9	303	100%	\$0
Zoology	8	225	68%	\$98
Ecology	7	219	65%	\$339
Technology	4	209	47%	\$223
Mathematics	8	186	73%	\$214
Other Sciences	2	176	100%	\$0
Computer Science	7	166	100%	\$0
Library Science	10	139	100%	\$0
Engineering	5	96	67%	\$112
Biology	2	3	100%	\$0

# Sweden

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	43	1,939			\$553	-54%
Fee	9	637	33%	-50%	\$1,682	-9%
No-fee	34	1,302	67%	92%		
Biomed	6	943	49%	31%	\$1,050	-35%
Fee	3	500	53%	-30%	\$1,980	-6%
No-fee	3	443	47%	97%		
STEM	3	88	5%	-89%	\$789	-44%
Fee	2	88	100%	30%	\$789	-57%
No-fee	1	0	0%	-100%		
H&SS	34	908	47%	111%	\$14	-91%
Fee	4	49	5%	-78%	\$251	-61%
No-fee	30	859	95%	25%		

Strong in H&SS, two-thirds no-fee. 5% more journals than in GOA5.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	39	40	41	40	39	38
%No-fee	79%	78%	78%	78%	82%	82%
Articles	1,939	1,458	1,309	1,244	1,328	1,389
%No-fee	67%	67%	65%	65%	62%	67%
Change	33%	11%	5%	-6%	-4%	

Very strong 2020.

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Large: 150-599	3	967	65%	\$677
Med.: 60-149	5	387	36%	\$1,042
Small: 20-59	17	457	94%	\$6
Smallest: 0-19	18	128	82%	\$87

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	3	500	\$990,003	\$1,980
\$600-\$1,399	1	85	\$67,793	\$798
\$200-\$599	4	23	\$11,154	\$485
\$0.20-\$199	1	29	\$2,746	\$95
No fee	34	1,302		
Total	43	1,939	\$1,071,697	\$553

Priciest journal \$2,564.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	1	1	2	5	0
No-fee	8	6	6	12	2
Total	9	7	8	17	2

Typical sharp drop after 2015.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Society/govt	6	941	53%	\$905
Univ/college	32	813	83%	\$100
Open Access	5	185	71%	\$748

Unusual, with most articles from societies.

**Subject**

<b>Subject</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	6	943	47%	\$1,050
Economics	5	268	85%	\$34
Language & Literature	6	130	100%	\$0
Sociology	5	121	100%	\$0
Zoology	1	85	0%	\$798
Education	5	83	90%	\$37
Library Science	1	72	100%	\$0
Political Science	3	60	100%	\$0
Arts & Architecture	2	36	100%	\$0
Anthropology	1	31	100%	\$0
Media & Communications	1	31	100%	\$0
History	2	30	100%	\$0
Philosophy	1	27	100%	\$0
Psychology	2	19	100%	\$0
Earth Sciences	1	3	0%	\$538
Agriculture	1	0		

# Switzerland

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	356	213,601			\$2,205	83%
Fee	312	210,797	99%	52%	\$2,235	21%
No-fee	44	2,804	1%	-96%		
Biomed	131	72,215	34%	-9%	\$2,430	51%
Fee	116	71,155	99%	29%	\$2,466	17%
No-fee	15	1,060	1%	-94%		
STEM	169	131,318	61%	51%	\$2,118	51%
Fee	163	131,128	100%	29%	\$2,121	17%
No-fee	6	190	0%	-99%		
H&SS	56	10,068	5%	-79%	\$1,738	1005%
Fee	33	8,514	85%	247%	\$2,055	219%
No-fee	23	1,554	15%	-80%		

Very expensive, high on STEM, low on H&SS—and even H&SS has high fees. Almost no no-fee. 13% more journals than in GOA5. Now the most prolific and most expensive country for OA articles.

## Articles and journals by year

	2020	2019	2018	2017	2016	2015
Journals	347	333	314	289	265	241
%No-fee	12%	13%	13%	13%	12%	12%
Articles	213,601	142,165	97,043	54,601	38,973	33,165
%No-fee	1%	2%	3%	5%	5%	5%
Change	50%	46%	78%	40%	18%	

Very fast growth in recent years—more than sextupled in five years!

**Article volume**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Largest: 600+	79	184,630	1%	\$2,290
Large: 150-599	62	17,617	2%	\$1,881
Med.: 60-149	96	8,169	7%	\$1,410
Small: 20-59	86	2,849	13%	\$1,171
Smallest: 0-19	33	336	46%	\$628

**Fees and revenue**

	<b>Journals</b>	<b>Articles</b>	<b>Revenue</b>	<b>\$/article</b>
\$1,400+	222	204,622	\$464,156,016	\$2,268
\$600-\$1,399	83	5,995	\$6,814,198	\$1,137
\$200-\$599	6	116	\$53,467	\$461
\$0.20-\$199	1	64	\$6,814	\$106
No fee	44	2,804		
Total	356	213,601	\$471,030,495	\$2,205

Two \$3,300 journals followed by 32 \$2,950.

**Starting date**

	<b>To 2000</b>	<b>2001-05</b>	<b>2006-10</b>	<b>2011-15</b>	<b>2016-20</b>
Fee	4	5	61	163	79
No-fee	4	8	3	19	10
Total	8	13	64	182	89

Big drop from 2011-2015, but still strong new-journal rate.

**Publisher category**

<b>Category</b>	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Open Access	229	163,650	1%	\$2,053
Traditional	103	49,361	1%	\$2,733
Univ/college	17	338	71%	\$135
Society/govt	7	252	71%	\$225

Dominated by expensive OA publishers.



**Subject**

Subject	Journals	Articles	%No-fee	\$/article
Medicine	99	47,971	2%	\$2,446
Chemistry	30	34,959	0%	\$2,175
Ecology	20	26,586	0%	\$2,171
Biology	32	24,244	0%	\$2,397
Physics	23	16,188	0%	\$1,996
Earth Sciences	17	11,553	0%	\$2,239
Agriculture	14	11,209	0%	\$2,137
Engineering	13	10,713	0%	\$2,147
Other Sciences	7	9,585	0%	\$2,104
Zoology	5	4,751	0%	\$2,114
Psychology	3	4,059	0%	\$2,866
Mathematics	9	2,711	1%	\$1,643
Computer Science	24	2,540	1%	\$1,472
Miscellany	4	1,248	88%	\$176
Anthropology	8	929	1%	\$1,391
Religion	3	708	3%	\$1,240
Economics	7	688	9%	\$1,144
Education	2	676	0%	\$1,265
Technology	7	523	0%	\$1,492
Arts & Architecture	3	393	3%	\$1,381
Political Science	2	374	11%	\$1,131
Sociology	7	340	18%	\$894
Media & Communications	2	229	47%	\$506
Philosophy	3	134	10%	\$1,615
Law	5	104	69%	\$328
Language & Literature	3	101	28%	\$923
Library Science	3	85	7%	\$1,233
History	1	0		

Ten subjects average more than \$2,000 each, with psychology the highest.

# United Kingdom

## Key facts

	Journals	Articles	Art%	Rel%	\$/Art	Rel%
All	1,695	211,120			\$2,190	82%
Fee	1,314	197,241	93%	44%	\$2,344	27%
No-fee	381	13,879	7%	-81%		
Biomed	913	117,359	56%	49%	\$2,396	49%
Fee	807	112,453	96%	26%	\$2,501	18%
No-fee	106	4,906	4%	-82%		
STEM	458	83,439	40%	-3%	\$2,074	48%
Fee	394	78,753	94%	22%	\$2,198	21%
No-fee	64	4,686	6%	-75%		
H&SS	324	10,322	5%	-78%	\$773	392%
Fee	113	6,035	58%	140%	\$1,323	105%
No-fee	211	4,287	42%	-45%		

Second most prolific and most expensive; strong in biomed, very weak in H&SS. 7% more journals than in GOA5.

## Articles by journal and year

	2020	2019	2018	2017	2016	2015
Journals	1,628	1,616	1,513	1,424	1,310	1,205
%No-fee	22%	22%	22%	20%	20%	19%
Articles	211,120	179,898	157,294	146,529	126,031	118,063
%No-fee	7%	6%	6%	6%	6%	5%
Change	17%	14%	7%	16%	7%	

Growing every year.

**Article volume**

	Journals	Articles	%No-fee	\$/article
Largest: 600+	67	95,339	1%	\$2,479
Large: 150-599	264	64,173	4%	\$2,272
Med.: 60-149	394	30,945	12%	\$1,812
Small: 20-59	668	18,093	29%	\$1,222
Smallest: 0-19	302	2,570	41%	\$783

**Fees and revenue**

	Journals	Articles	Revenue	\$/article
\$1,400+	883	170,854	\$436,877,680	\$2,557
\$600-\$1,399	381	24,440	\$24,567,986	\$1,005
\$200-\$599	46	1,808	\$814,983	\$451
\$0.20-\$199	4	139	\$16,073	\$116
No fee	381	13,879		
Total	1,695	211,120	\$462,276,722	\$2,190

55% of *all* expensive OA journals in the world are in the UK, at very high fees. Five journals charge \$6,000.

**Starting date**

	To 2000	2001-05	2006-10	2011-15	2016-20
Fee	60	172	293	519	270
No-fee	20	29	50	166	116
Total	80	201	343	685	386

Robust level of new journal introduction continues.

**Publisher category**

Category	Journals	Articles	%No-fee	\$/article
Traditional	1,292	173,826	4%	\$2,318
Univ/college	206	18,042	18%	\$2,130
Society/govt	62	12,385	24%	\$914
Open Access	135	6,867	16%	\$1,401

**Subject**

	<b>Journals</b>	<b>Articles</b>	<b>%No-fee</b>	<b>\$/article</b>
Medicine	799	97,932	5%	\$2,361
Other Sciences	18	34,711	2%	\$2,557
Biology	114	19,427	2%	\$2,572
Chemistry	29	8,895	24%	\$881
Engineering	58	8,184	3%	\$1,932
Ecology	75	7,937	5%	\$2,075
Mathematics	34	6,035	2%	\$2,015
Computer Science	68	4,092	3%	\$1,864
Physics	42	3,625	4%	\$2,047
Agriculture	35	2,789	10%	\$1,765
Earth Sciences	43	2,636	3%	\$1,644
Zoology	39	2,482	7%	\$1,803
Technology	17	2,053	19%	\$1,601
Economics	43	1,663	34%	\$829
Sociology	23	1,283	26%	\$1,106
Miscellany	18	1,260	19%	\$997
Education	37	972	68%	\$291
Anthropology	30	890	25%	\$1,350
Psychology	14	785	7%	\$1,459
Law	25	700	74%	\$372
Arts & Architecture	25	563	52%	\$514
Language & Literature	28	540	46%	\$381
Media & Communications	15	409	55%	\$359
Political Science	25	376	85%	\$107
History	14	282	83%	\$217
Library Science	12	238	89%	\$35
Philosophy	9	224	25%	\$1,178
Religion	6	137	68%	\$178

Six subjects over \$2,000, including two over \$2,500.

# Other Western European Countries

Four countries, thirteen journals, no fees.

## Key facts

	Journals	Articles	Art%	Rel%
All	13	390		
Biomed	1	200	51%	38%
STEM	2	39	10%	-75%
H&SS	10	151	39%	75%

Strong in H&SS, weak in STEM. One more journal than in GOA5.

## Articles by journal and year

	2020	2019	2018	2017	2016	2015
Journals	13	13	13	13	11	10
Articles	390	236	421	381	521	428
Change	65%	-44%	10%	-27%	22%	

Strong 2020 but still below 2018.

## Article volume

	Journals	Articles	Percent	Art/Jrn
Large: 150-599	1	200	54%	200
Med.: 60-149	2	62	17%	31
Small: 20-59	6	88	24%	15
Smallest: 0-19	4	40	11%	10

**Starting date**

	To 2000	2001-05	2006-10	2011-15
Journals	2	4	2	3

**Publisher category**

Category	Journals	Articles	Percent	Art/Jrn
Society/govt	3	239	61%	80
Traditional	9	144	37%	16
Open Access	1	7	2%	7

**Subject**

Subject	Journals	Articles	Art/Jrn
Medicine	3	99	33
Political Science	2	43	22
Sociology	2	28	14
Education	1	16	16
Psychology	1	16	16
Anthropology	1	14	14
Earth Sciences	1	9	9
History	1	6	6

**Country Profiles****Åland Islands**

One very small journal. Five articles in 2020. New to DOAJ.

**Iceland**

Seven journals. 329 articles in 2020. The journal that dropped from 210 articles in 2018 to 52 in 2019 was back to 200 in 2020.

**Luxembourg**

Three journals. 26 articles in 2020.

**Malta**

Three journals. 30 articles in 2020.

## Appendix: The Heatmaps

The world maps on the front cover are heatmaps generated at [GunnMap](#) (thanks!). (Unfortunately, GunnMap2, used in previous editions, requires Flash, which is no longer supported software.)

The front cover represents level of no-fee or “diamond” OA on the basis of 2020 articles per 100,000 people. Colors range from dark green for the lowest level of activity to dark orange or red for the highest.

The numbers used appear here, but some countries may not actually appear on the map.

Country	Articles	Pop	Art/100K
Åland Islands	5	0.30	16.73
Albania	24	28.78	0.83
Algeria	726	438.51	1.66
Angola	71	328.66	0.22
Argentina	7,669	451.96	16.97
Armenia	31	29.63	1.05
Australia	2,081	255.00	8.16
Austria	1,136	90.06	12.61
Azerbaijan	24	101.39	0.24
Bahamas	12	3.93	3.05
Bahrain	118	17.02	6.93
Bangladesh	446	1646.89	0.27
Barbados	36	2.87	12.53
Belarus	700	94.49	7.41
Belgium	711	115.90	6.13
Bolivia	122	116.73	1.05
Bosnia and Herzegovina	636	32.81	19.39
Brazil	62,872	2125.59	29.58

Country	Articles	Pop	Art/100K
Bulgaria	1,131	69.48	16.28
Canada	4,090	377.42	10.84
Chile	3,205	191.16	16.77
China	6,141	14393.24	0.43
Colombia	9,943	508.83	19.54
Costa Rica	2,095	50.94	41.13
Croatia	2,921	41.05	71.15
Cuba	6,339	113.27	55.97
Cyprus	79	12.07	6.54
Czechia	2,200	107.09	20.54
Dem. Rep. Congo	67	895.61	0.07
Denmark	423	57.92	7.30
Dominican Republic	198	108.48	1.83
Ecuador	2,040	176.43	11.56
Egypt	320	1023.34	0.31
El Salvador	33	64.86	0.51
Estonia	407	13.27	30.68
Ethiopia	171	1149.64	0.15
Finland	1,174	55.41	21.19
France	17,688	652.74	27.10
Georgia	121	39.89	3.03
Germany	14,161	837.84	16.90
Ghana	73	310.73	0.23
Greece	1,232	104.23	11.82
Guatemala	41	179.16	0.23
Honduras	32	99.05	0.32
Hong Kong	372	74.97	4.96
Hungary	916	96.60	9.48
Iceland	329	3.41	96.41
India	12,607	13800.04	0.91
Indonesia	14,338	2735.24	5.24
Iran	13,220	839.93	15.74



Country	Articles	Pop	Art/100K
Iraq	528	402.22	1.31
Ireland	288	49.38	5.83
Israel	67	86.56	0.77
Italy	9,876	604.62	16.33
Japan	491	1264.76	0.39
Jordan	92	102.03	0.90
Kazakhstan	117	187.77	0.62
Kenya	51	537.71	0.09
Kyrgyzstan	85	65.24	1.30
Latvia	213	18.86	11.29
Lebanon	16	68.25	0.23
Libya	54	68.71	0.79
Lithuania	1,173	27.22	43.09
Luxembourg	26	6.26	4.15
Malawi	38	191.30	0.20
Malaysia	1,269	323.66	3.92
Malta	30	4.42	6.79
Mexico	3,983	1289.33	3.09
Moldova	776	40.34	19.24
Mongolia	46	32.78	1.40
Montenegro	298	6.28	47.45
Morocco	583	369.11	1.58
Nepal	811	291.37	2.78
Netherlands	7,408	171.35	43.23
New Zealand	368	48.22	7.63
Nicaragua	133	66.25	2.01
Nigeria	47	2061.40	0.02
North Macedonia	244	20.83	11.71
Norway	2,648	54.21	48.84
Oman	291	51.07	5.70
Pakistan	1,194	2208.92	0.54
Palestine	6	51.01	0.12

Country	Articles	Pop	Art/100K
Paraguay	432	71.33	6.06
Peru	2,292	329.72	6.95
Philippines	173	1095.81	0.16
Poland	11,606	378.47	30.67
Portugal	3,128	101.97	30.68
Puerto Rico	16	28.61	0.56
Qatar	124	28.81	4.30
Romania	6,860	192.38	35.66
Russia	21,491	1459.34	14.73
Rwanda	30	129.52	0.23
Saudi Arabia	734	348.14	2.11
Serbia	4,301	87.37	49.23
Singapore	273	58.50	4.67
Slovakia	785	54.60	14.38
Slovenia	1,415	20.79	68.06
South Africa	1,097	593.09	1.85
South Korea	3,513	512.69	6.85
South Sudan	24	111.94	0.21
Spain	22,211	467.55	47.51
Sri Lanka	456	214.13	2.13
Sweden	1,302	100.99	12.89
Switzerland	2,804	86.55	32.40
Syria	26	175.01	0.15
Taiwan	755	238.17	3.17
Thailand	753	698.00	1.08
Tunisia	41	118.19	0.35
Turkey	16,945	843.39	20.09
Turkmenistan	8	60.31	0.13
Ukraine	7,275	437.34	16.63
United Arab Emirates	62	98.90	0.63
United Kingdom	13,879	678.86	20.44
United States	15,113	3310.03	4.57

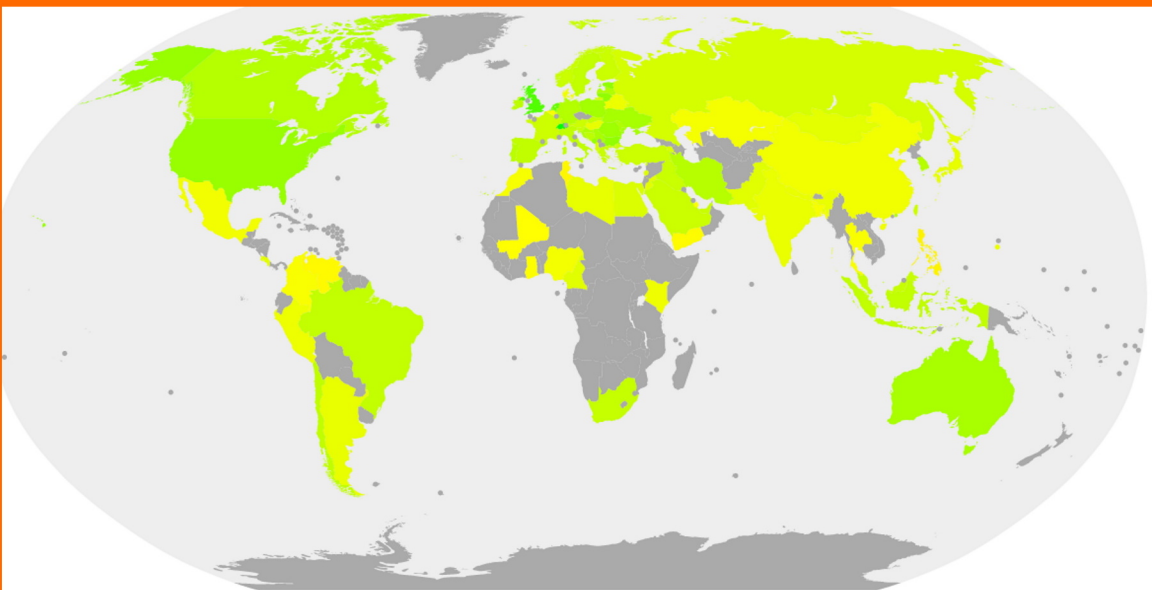
Country	Articles	Pop	Art/100K
Uruguay	677	34.74	19.49
Venezuela	781	284.36	2.75
Viet Nam	60	973.39	0.06
Yemen	73	298.26	0.24
Zimbabwe	46	148.63	0.31

The rear cover shows *fee* articles per 100K, with the lowest being yellow and the highest dark green, but ratios have been converted to logarithmic values because the range is so extreme.

Country	Articles	Pop	Art/(log10)
Albania	64	28.78	0.35
Argentina	345	451.96	-0.12
Armenia	56	29.63	0.28
Australia	4,592	255.00	1.26
Austria	334	90.06	0.57
Bangladesh	417	1646.89	-0.60
Belarus	52	94.49	-0.26
Belgium	25	115.90	-0.67
Bosnia and Herzegovina	250	32.81	0.88
Brazil	12,788	2125.59	0.78
Bulgaria	2,854	69.48	1.61
Cameroon	316	265.46	0.08
Canada	3,950	377.42	1.02
Chile	1,280	191.16	0.83
China	6,203	14393.24	-0.37
Colombia	104	508.83	-0.69
Costa Rica	46	50.94	-0.04
Croatia	590	41.05	1.16
Czechia	1,067	107.09	1.00
Denmark	23	57.92	-0.40
Egypt	1,893	1023.34	0.27
Estonia	550	13.27	1.62
Finland	235	55.41	0.63

Country	Articles	Pop	Art/(log10)
France	2,410	652.74	0.57
Germany	9,640	837.84	1.06
Ghana	46	310.73	-0.83
Greece	471	104.23	0.66
Guam	1	1.69	-0.23
Hong Kong	849	74.97	1.05
Hungary	73	96.60	-0.12
India	9,767	13800.04	-0.15
Indonesia	17,290	2735.24	0.80
Iran	8,641	839.93	1.01
Iraq	1,823	402.22	0.66
Ireland	380	49.38	0.89
Italy	3,757	604.62	0.79
Japan	1,040	1264.76	-0.08
Jordan	108	102.03	0.02
Kazakhstan	56	187.77	-0.53
Kenya	239	537.71	-0.35
Latvia	247	18.86	1.12
Lebanon	98	68.25	0.16
Libya	57	68.71	-0.08
Lithuania	1,147	27.22	1.62
Malaysia	1,582	323.66	0.69
Mali	24	202.51	-0.93
Mexico	481	1289.33	-0.43
Moldova	537	40.34	1.12
Mongolia	38	32.78	0.06
Montenegro	194	6.28	1.49
Morocco	83	369.11	-0.65
Nepal	209	291.37	-0.14
Netherlands	25,413	171.35	2.17
Nigeria	706	2061.40	-0.47
North Macedonia	104	20.83	0.70

Country	Articles	Pop	Art/(log10)
Norway	246	54.21	0.66
Pakistan	2,771	2208.92	0.10
Peru	170	329.72	-0.29
Philippines	8	1095.81	-2.14
Poland	8,332	378.47	1.34
Portugal	898	101.97	0.94
Qatar	5	28.81	-0.76
Romania	4,795	192.38	1.40
Russia	3,667	1459.34	0.40
Saudi Arabia	1,460	348.14	0.62
Serbia	1,455	87.37	1.22
Singapore	301	58.50	0.71
Slovakia	303	54.60	0.74
Slovenia	101	20.79	0.69
South Africa	3,302	593.09	0.75
South Korea	5,511	512.69	1.03
Spain	3,083	467.55	0.82
Sweden	637	100.99	0.80
Switzerland	210,797	86.55	3.39
Taiwan	795	238.17	0.52
Thailand	156	698.00	-0.65
Tunisia	5	118.19	-1.37
Turkey	3,404	843.39	0.61
Ukraine	8,241	437.34	1.28
United Arab Emirates	445	98.90	0.65
United Kingdom	197,241	678.86	2.46
United States	107,160	3310.03	1.51
Venezuela	16	284.36	-1.25
Viet Nam	48	973.39	-1.31
Yemen	20	298.26	-1.17



Fee OA 2020 articles by population, yellow to green, log10