

Open Access Publication and
Article Processing Charges (APCs)
in Japan

Report on the FY2018 Survey
(Summary in English)

Japan Alliance of University Library Consortia
for E-Resources (JUSTICE)

June 2019

About this report

JUSTICE conducted a survey to gain an understanding of the total APC costs and ascertain the feasibility of shifting from a subscription model to an OA publishing model in Japan. For this survey, we used the Web of Science article level metadata file provided by Clarivate Analytics to National Institute of Informatics (NII). We published our survey results with permission from Clarivate Analytics.

Methods

We used two types of data.

1. The Web of Science article level metadata file purchased from Clarivate Analytics.
 - Publication year: 2012-2016
 - Type of publication: “Article” and “Review”
 - Reprint author: Authors who belong to institutions in Japan
2. The data JUSTICE collected and organized on our own by identifying APC prices, reprint authors’ institutions, and so on.

We analyzed data by the following OA types.

■ Full OA

■ Hybrid OA

Although a hybrid OA journal is a subscription journal, articles under an open license are freely accessible on the publisher’s platform in exchange for APC paid by authors.

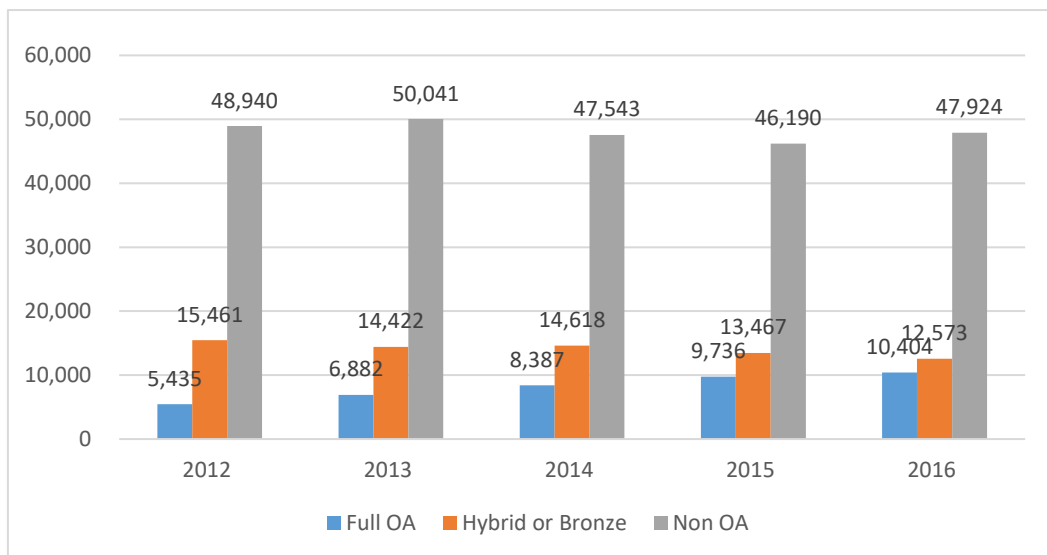
■ Bronze OA

Although bronze OA articles are freely accessible like hybrid OA articles, they don’t have clearly identifiable license. Delayed OA articles are included in Bronze.

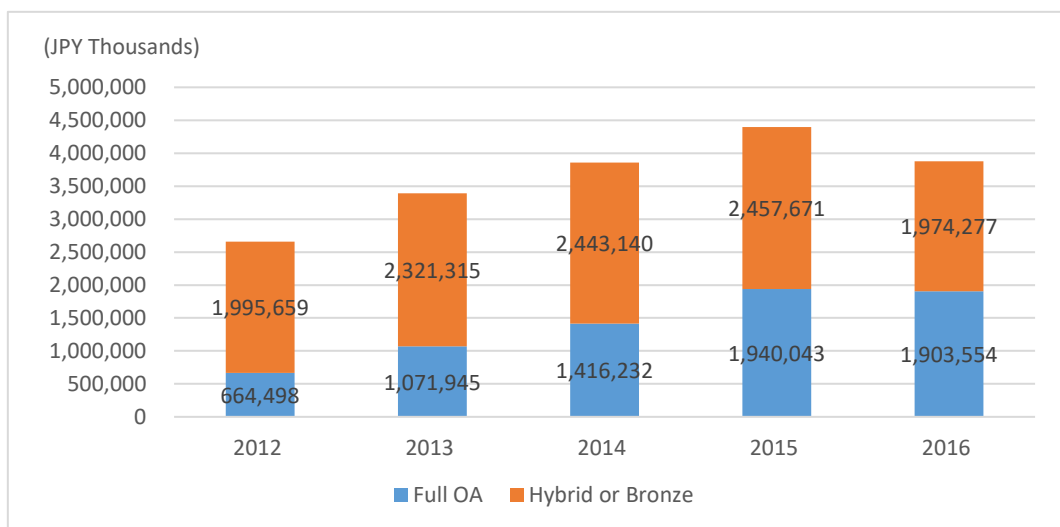
Results

(1) Overview

① Number of articles per OA type



② Estimated total APC costs



(2) Breakdown by publisher

① Top 10 publishers based on total number of articles published in 2016

Rank	Publisher	Total number of articles	OA availability
1	ELSEVIER	13,862	10.2%
2	SPRINGER	8,700	14.1%
3	WILEY	7,069	26.9%
4	T & F	2,520	11.3%
5	NATURE	2,272	81.2%
6	ACS	2,181	5.1%
7	IOP	2,112	20.9%
8	OUP	1,553	64.6%
9	RSC	1,523	22.1%
10	PLoS	1,192	100.0%
Others		27,917	47.3%
Total		70,901	32.4%

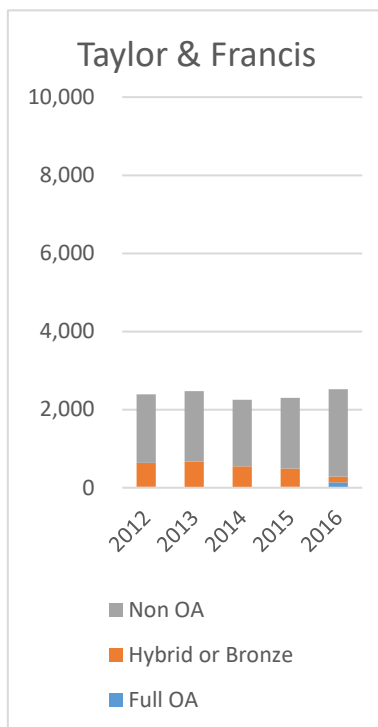
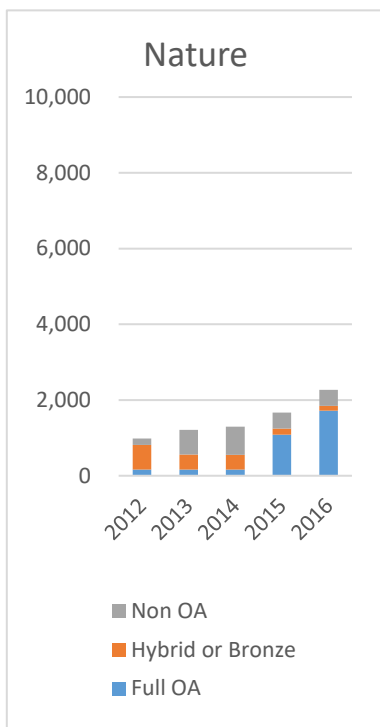
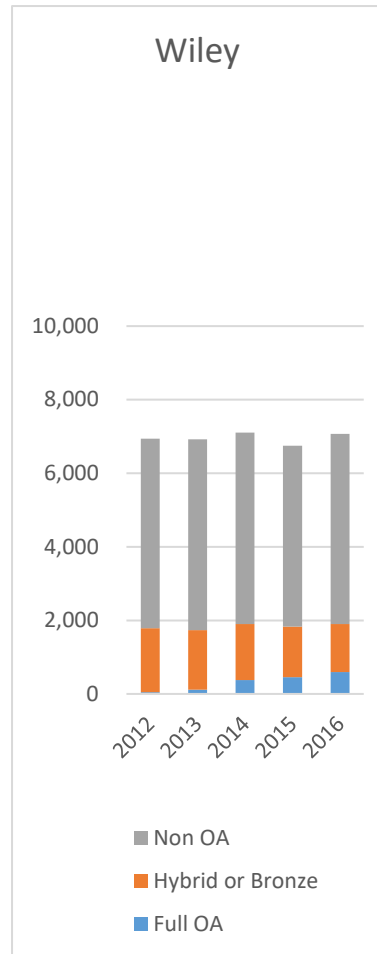
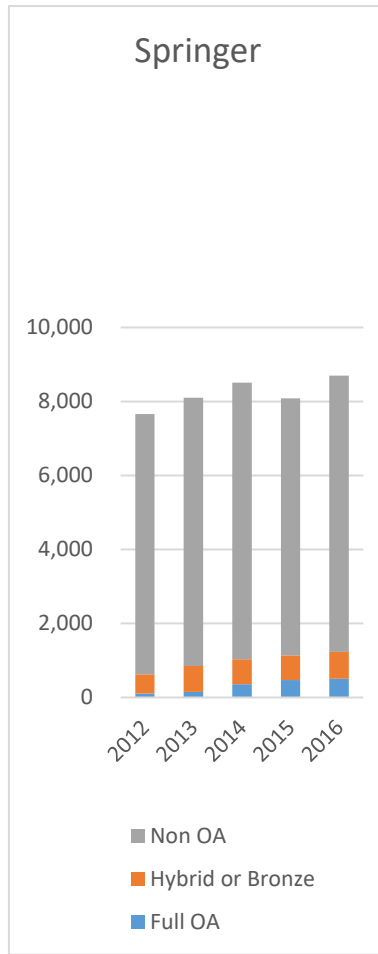
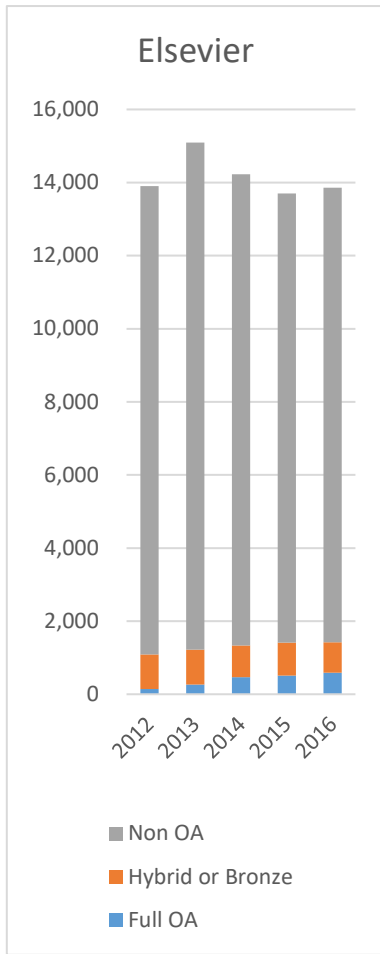
② Top 10 publishers based on estimated total APC costs paid for full OA journals published in 2016

Rank	Publisher	Number of full OA articles	Estimated total APC costs (JPY)
1	NATURE	1,719	429,325,365
2	BMC	1,095	252,351,115
3	PLoS	1,192	201,625,129
4	WILEY	598	135,346,208
5	FRONTIERS MEDIA	400	121,717,471
6	MDPI	706	114,866,071
7	SPRINGER	503	83,078,141
8	HINDAWI	457	73,503,199
9	OUP	328	53,682,961
10	Dove Press	219	51,770,258
Others		3,187	386,288,448
Total		10,404	1,903,554,366

③ Top 10 publishers based on estimated total APC costs paid for non-full OA journals published in 2016

Rank	Publisher	Number of hybrid or bronze articles	Estimated total APC costs (JPY)
1	WILEY	1,303	448,216,842
2	SPRINGER	726	238,068,115
3	ELSEVIER	826	225,555,499
4	OUP	675	176,370,268
5	LWW	199	63,607,441
6	RSC	284	45,147,025
7	NATURE	126	44,510,603
8	AMER SOC MICROBIOLOGY (ASM)	173	43,681,462
9	BAISHIDENG PUBLISHING GROUP	154	42,836,420
10	IOP	399	39,845,409
	Others	7,708	606,438,009
	Total	12,573	1,974,277,093

④ Total number of articles by top five publishers based on total number of articles published in 2016

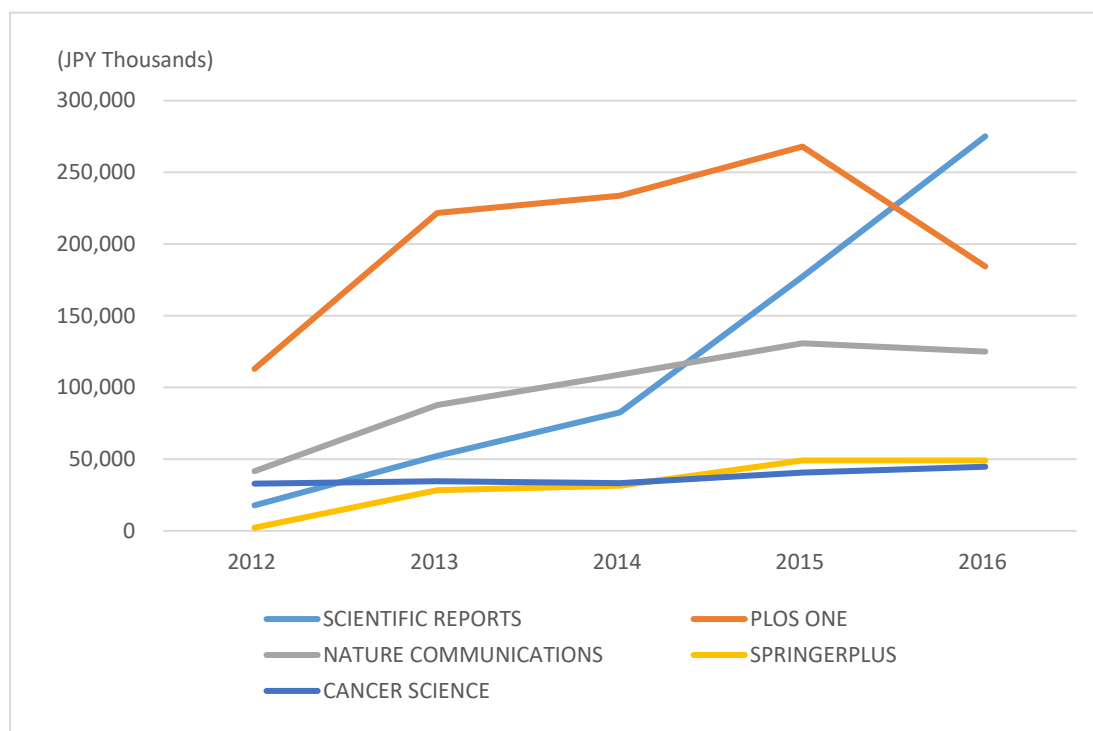


(3) Breakdown by journal

① Top 10 journals based on estimated total APC costs paid for articles published in 2016

Rank	Journal	Number of OA articles	Estimated total APC costs (JPY)	OA availability
1	SCIENTIFIC REPORTS	1,424	275,133,888	100.0%
2	PLOS ONE	1,124	184,472,004	100.0%
3	NATURE COMMUNICATIONS	219	125,017,464	100.0%
4	SPRINGERPLUS	149	49,071,660	100.0%
5	CANCER SCIENCE	181	44,707,905	100.0%
6	JAPANESE JOURNAL OF CLINICAL ONCOLOGY	118	38,862,120	96.7%
7	GENES TO CELLS	92	38,379,088	96.8%
8	EARTH PLANETS AND SPACE	106	34,910,040	100.0%
9	WORLD JOURNAL OF GASTROENTEROLOGY	110	32,121,540	92.4%
10	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	132	28,054,488	100.0%

② Estimated total APC costs for the top five journals



(4) Breakdown by institution

Top 20 JUSTICE member institutions based on total number of articles published in 2016

Rank	Institution	Total number of articles	Full OA		Hybrid or Bronze		Total		
			Number of OA articles	Estimated total APC costs (JPY)	Number of OA articles	Estimated total APC costs (JPY)	Number of OA articles	Estimated total APC costs (JPY)	OA availability
1	The University of Tokyo	3,857	595	115,455,167	664	114,132,594	1,259	229,587,761	32.6%
2	Kyoto University	3,136	457	89,016,229	443	75,262,362	900	164,278,591	28.7%
3	Tohoku University	2,321	310	58,055,106	370	54,487,626	680	112,542,732	29.3%
4	Osaka University	2,175	351	65,666,578	375	62,652,112	726	128,318,690	33.4%
5	Hokkaido University	1,939	268	50,524,296	294	38,975,584	562	89,499,880	29.0%
6	Kyushu University	1,926	253	47,492,137	264	43,460,718	517	90,952,855	26.8%
7	Nagoya University	1,707	250	46,026,084	281	42,922,917	531	88,949,001	31.1%
8	Tokyo Institute of Technology	1,181	104	20,702,627	160	20,345,285	264	41,047,912	22.4%
9	Keio University	1,060	191	35,596,486	202	41,608,267	393	77,204,753	37.1%
10	Hiroshima University	1,023	149	25,471,224	186	30,442,594	335	55,913,818	32.7%
11	Kobe University	930	107	20,565,551	118	22,999,744	225	43,565,295	24.2%
12	University of Tsukuba	924	132	22,080,622	159	26,091,974	291	48,172,596	31.5%
13	Okayama University	805	109	19,763,888	128	21,410,437	237	41,174,325	29.4%
14	Chiba University	801	139	25,220,251	137	25,136,588	276	50,356,839	34.5%
15	Kanazawa University	601	86	17,392,354	107	15,069,286	193	32,461,640	32.1%
16	Waseda University	574	62	9,727,189	65	7,159,537	127	16,886,726	22.1%

17	Kumamoto University	571	89	18,278,359	103	15,967,685	192	34,246,044	33.6%
18	Nihon University	567	67	11,744,786	106	10,017,820	173	21,762,606	30.5%
19	Shinshu University	488	82	12,671,141	74	12,747,256	156	25,418,397	32.0%
20	Tokyo University of Science	488	39	5,687,632	69	5,649,013	108	11,336,645	22.1%