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Authors	<a href="#">Katharina Rieck</a> , <a href="#">Falk Reckling</a>
Corresponding Author	<a href="#">Falk Reckling</a> ,
Author affiliations	<a href="#">Austrian Science Fund</a> (FWF)
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## Introduction

This report provides information about the [Austrian Science Fund](#) (FWF) costs spent on publications through the programmes [Peer Reviewed Publications](#) and [Stand-Alone Publications](#) in the year 2014. Like other institutions and funders, such as the [Wellcome Trust](#), the FWF follows the idea of making publication costs – especially Open Access (OA) publication costs - more transparent, in order to create a collaborative overview of evolving global publication market prices.

The FWF was one of the first funders to make its publication cost data openly accessible in 2013 (see [FWF dataset 2013](#)), and continued with this approach in 2014. Compared to 2013, the dataset for 2014 is expanded to include Open Access book funding which is covered through the programme [Stand-Alone Publications](#).

### *FWF Funding Programmes*

The programme “Peer-Reviewed Publications” aims to cover the costs of peer-reviewed publications that result from projects supported by the FWF, up to a limit of three years after the conclusion of the project. For projects that were granted FWF funding before the 1<sup>st</sup> November 2014, the following conditions are applicable:

- Up to EUR 3,000.00 for journal articles and similar peer-reviewed publication formats (upon consultation with the FWF, exceptions may be made in certain cases)
- Up to EUR 8,000.00 for monographs, complete collections and proceedings, but only for projects approved before November 30, 2011

The purpose of the programme “Stand-Alone-Publications” is the promotion of stand-alone scientific publications in order to make them available to the wider public. Until November 2014, conventional publication forms (e.g. monographs, collections) were supported by the FWF. The following grants are applicable:

- A lump-sum grant in the amount of up to EUR 14,000.00 for production, simultaneous open access publication and editing
- A lump-sum grant in the amount of up to EUR 18,000.00 for production, simultaneous open access publication and foreign language editing or translation
- A lump-sum grant of up to EUR 18,000.00 for production costs relating to innovative publication formats, including foreign-language editing or translation and open access publication
- An additional grant of up to EUR 8,000.00 for translation into English if it is strongly suggested in the reviews that an English publication would raise the visibility considerably. It is not necessary to apply for this grant.

The data does not reflect the publications published in 2014 which are reimbursed/paid in 2014 by the FWF. In some cases, there is a time lag of a year or more between the year of publication and the payment. This is mostly the result of administrative delays. However, it was monitored by the FWF that these articles were made Open Access by the publishers at the date of online publication. In the case of monographs, collected volumes or proceedings

covered by the programme Stand-Alone Publications, the funding was approved in 2014, but the items will be published some months later.

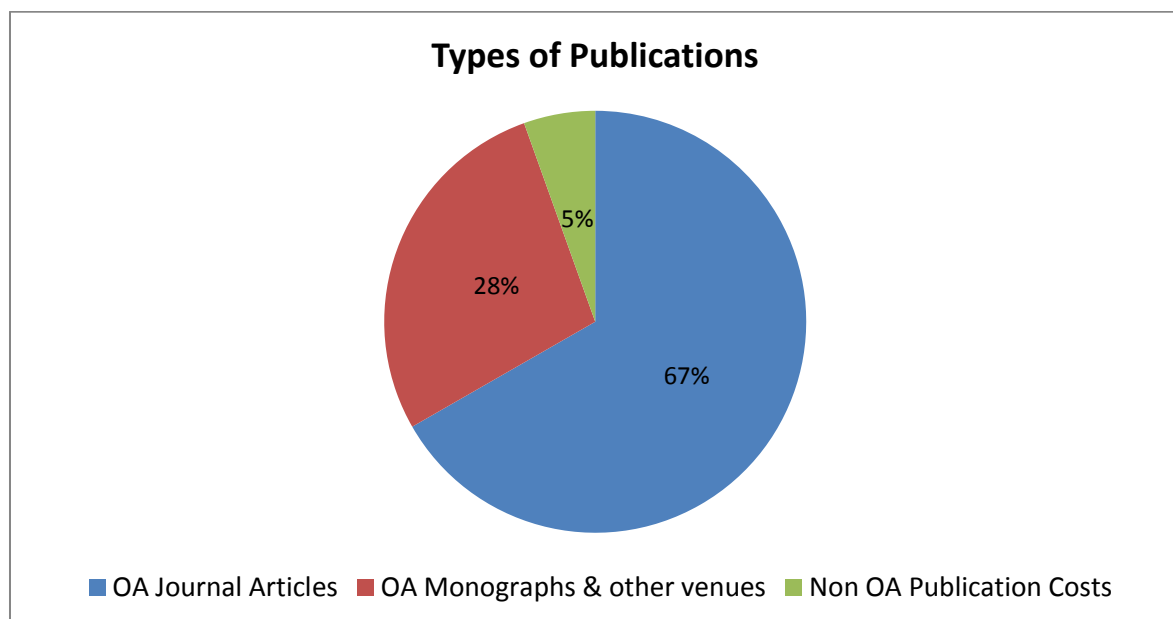
## 1. Types of Publications: OA Articles, OA Monographs & Other OA, Non-OA Publication Costs

Through its two publication programmes, the FWF supports different types of publications. For this analysis, these publication types were categorised in OA Journal Articles, OA Monographs & Other OA and Non OA Publication Costs, and their share of the total FWF publication costs were examined. In 2014, 67% of the publication costs were spent on Open Access articles through the programme “Peer-Reviewed Publications”. OA Monographs & Other OA, which comprise collected volumes, proceedings and book chapters, follow with around 28% and Non-Open Access publications costs – which are made up of page charges, colour charges and submission fees – with 5%. Overall, around 95% of all the costs were spent on Open Access, and thus the majority of publications funded by the FWF in 2014 are Open Access available.

**Table 1: Types of Publications: OA Articles, OA Monographs & Other OA, Non-OA Publication Costs**

Publication type	No. Items	total spend	%
OA Journal Articles	1176	€ 2.269.595,02	67%
OA Monographs & Other OA	68	€ 946.087,42	28%
Non OA Publication Costs	125	€ 186.322,30	5%
<b>Total</b>	<b>1369</b>	<b>€ 3.402.004,74</b>	<b>100%</b>

**Figure 1: Types of Publications 2014**



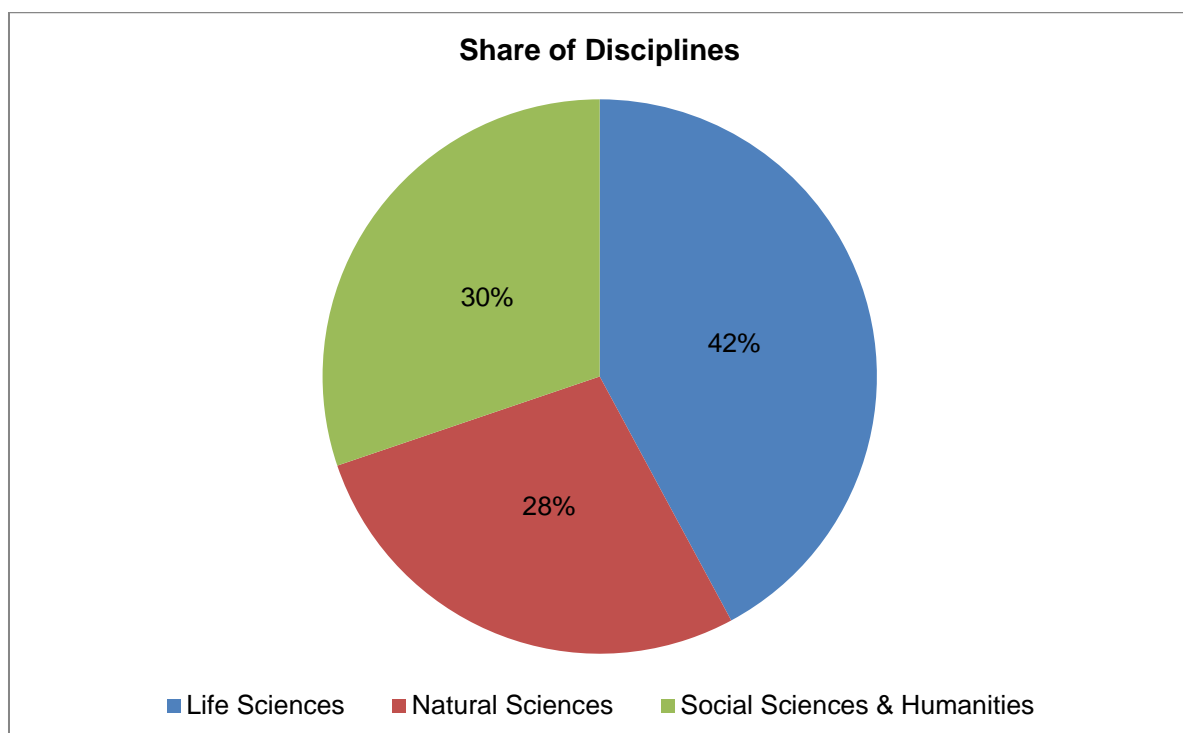
## 2. Share of Disciplines: Life Sciences, Natural Sciences, Social Sciences & Humanities

The FWF supports all branches of science and the humanities. For an overview of the cost shares of the different scientific disciplines, a classification into three groups was made: Life Sciences, Natural Sciences and Social Sciences & Humanities. In 2014, 42% of the total publication costs were used for the funding of publications in the Life Sciences, followed by the Social Sciences & Humanities with 30% and the Natural Sciences with 28%. As expected, the Natural and Life Sciences received almost all funding for journal publications, the Social Sciences & Humanities received it predominately for monographs and collected volumes. This result follows the FWF's policy to serve all disciplines equally, including Open Access funding.

**Table 2: Share of Disciplines: Life Sciences, Natural Sciences, Social Sciences & Humanities**

Discipline	No. Items	total spend	%
Life Sciences	782	€ 1.430.505,14	42%
Natural Sciences	483	€ 940.356,10	28%
Social Sciences & Humanities	104	€ 1.031.143,50	30%
<b>Total</b>	<b>1369</b>	<b>€ 3.402.004,74</b>	<b>100%</b>

**Figure 2: Share of Disciplines 2014**



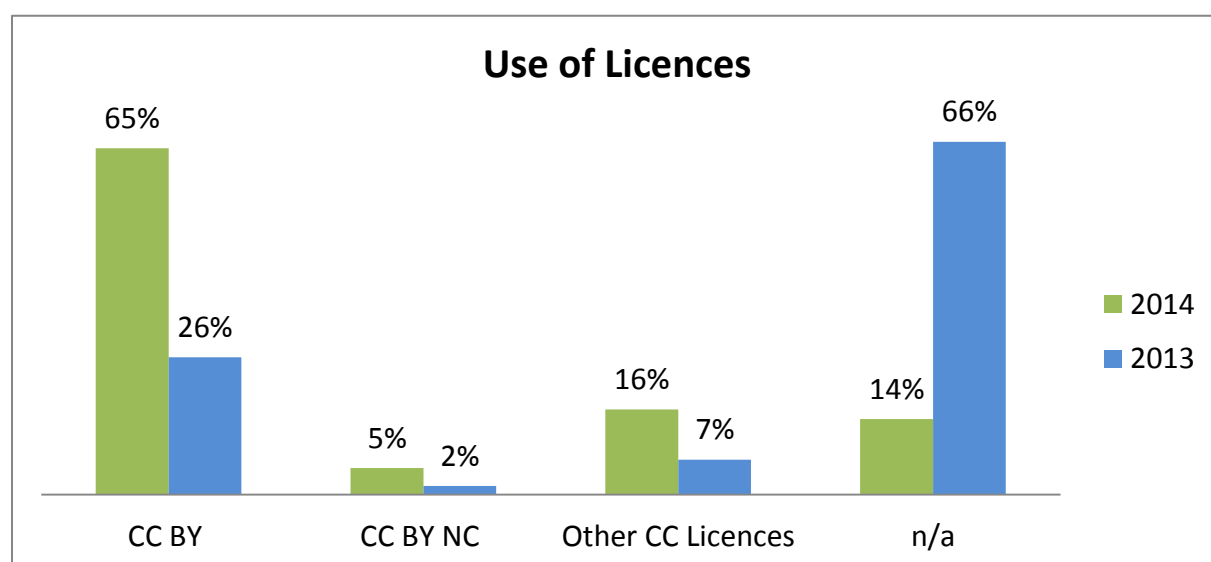
### 3. Use of Licences

In its [Open Access Policy](#), the FWF requests the [Creative Commons Attribution](#) licence (CC BY) for funded articles since 2014 and for stand-alone publications since 2015. This licences allow others to copy, re-use and distribute the licensed material, in whole or in part, following the licence norms. In 2014, 65% of the funded publications<sup>1</sup> complied with the FWF Policy and were published under the Creative Commons Attribution licence. Looking at the datasets from 2013 and 2014 shows the main trend towards the use of Creative Commons licences. Whereas in 2013 66% of the publications were not attached with a Creative Commons licence, in 2014 only 14% of the articles were published without a licence. The increase is due to the fact that more and more publishers are implementing proper licence agreements into their publishing systems.

**Table 3: Use of Licences – 2013 and 2014**

LICENCE	2014		2013	
	No. Items	%	No. Items	%
CC BY	692	65%	287	26%
CC BY NC	53	5%	18	2%
Other CC Licence	170	16%	73	7%
n/a	151	14%	738	66%
<b>Total</b>	<b>1066</b>	<b>100%</b>	<b>1116</b>	<b>100%</b>

**Figure 3: Use of Licences – Comparison 2013/2014**



<sup>1</sup> Only Open Access publications funded through the programme “Peer-Reviewed Publications” are taken into account, so that they can be compared to the ones from 2013.

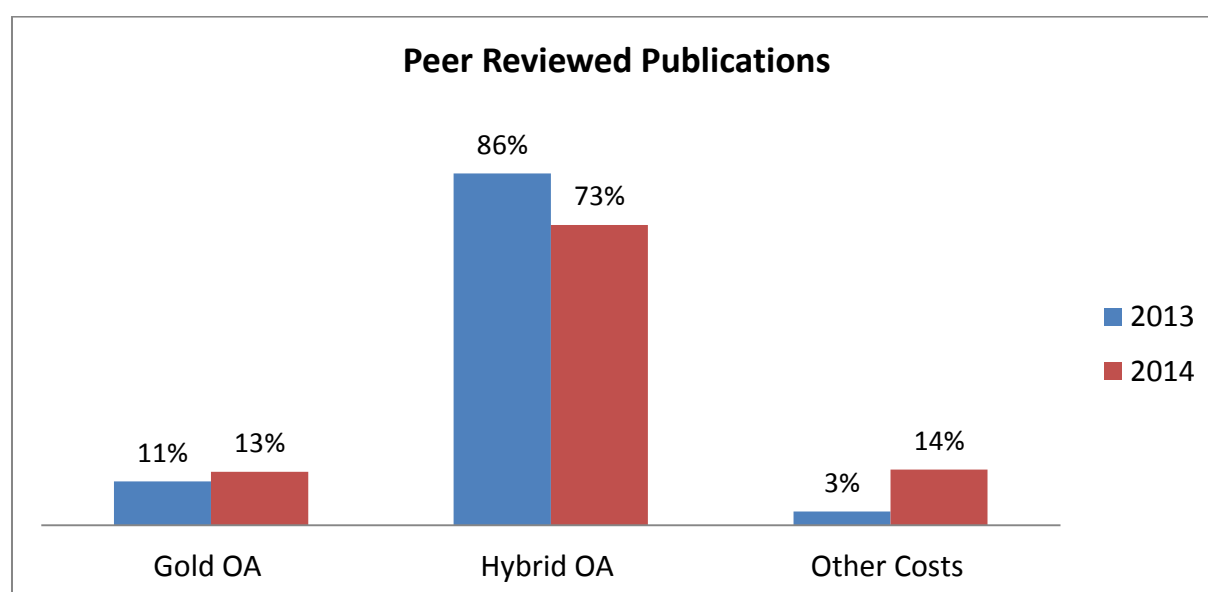
#### 4. Gold, Hybrid and Other Costs

The programme “Peer Reviewed Publications”<sup>2</sup> supports Gold Open Access, Hybrid Open Access and Other Costs. The analysis of the 2014 dataset reveals the significantly high share of Hybrid Open Access costs (73%), which constitutes the major part of “Peer-Reviewed Publications” cost items. In December 2014, the FWF released a [new Open Access Policy](#) introducing price caps for both Hybrid OA and Gold OA for projects funded after 1<sup>st</sup> November 2014. Future FWF data analysis will show if the price caps will have an influence on the Hybrid Open Access share and if they will lead to a decrease in the numbers.

**Table 4: Gold, Hybrid und Other Costs**

	2013	2014
Gold OA	11%	13%
Hybrid OA	86%	73%
Other Costs	3%	14%
<b>Total</b>	<b>100%</b>	<b>100%</b>

**Figure 4: Gold, Hybrid and Other Costs – Comparison 2013/2014**



<sup>2</sup> Only Open Access publications funded through the programme “Peer-Reviewed Publications” are taken into account, so that they can be compared to the ones from 2013.

## 5. Share of Publishers: Stand-Alone Publications

In 2014, 62 publications (mostly books and collected volumes) were funded through the programme “Stand-Alone Publications”, with a share of around 28% of the total costs spent on publication costs in that year. The table below provides an analysis of the top three publishers. As in the year before, Böhlau Verlag, Verlag ÖAW and Verlag Holzhausen GmbH make up the most publications and the highest cost share.

**Figure 5: Share of Stand-Alone-Publications 2014**

Publisher	No. Items	in total	
		total spend	average APC
Böhlau Verlag	28	€ 430.000,00	€ 15.357,14
Verlag der österreichischen Akademie der Wissenschaften	13	€ 194.758,57	€ 14.981,43
Verlag Holzhausen GmbH	4	€ 64.000,00	€ 16.000,00
17 Other Publishers	17	€ 268.381,11	€ 15.787,12
<b>Total</b>	<b>62</b>	<b>€ 957.139,68</b>	

It is worth noting that in 2005 publishers (mostly from Austria) asked for a similar amount per unit but only for printing costs. Now the funding package includes printing costs, professional copy-editing, immediate Gold Open Access and sometimes translations and peer review by the publisher<sup>3</sup>. Therefore, the programme represents a very good example of how to manage the transition to Open Access as well as how to ensure better quality standards control without price increases.

<sup>3</sup>In the programme “Stand-Alone Publications”, the FWF usually administrates the peer review procedure.

## 6. Share of Publishers: Peer-Reviewed Publications

This analysis provides an overview of the costs<sup>4</sup> spent on publications for publishers through the programme “Peer-Reviewed Publications”. The table on the next page shows the top 25 FWF-funded publishers and the costs spent on Gold Open Access, Hybrid Open Access and Other Costs. Elsevier, Wiley-Blackwell and the American Chemical Society (ACS) represent the top three FWF-funded publishers in 2014 and together make up around 47% of the costs spent through the programme “Peer-Reviewed Publications”. Thus, nearly half of the programme’s costs arose from these three publishers. Further, for the top two the number of Hybrid Open Access costs far exceeds the payments for Gold Open Access and Other costs (95% of Elseviers costs were Hybrid OA; 85% of Wiley-Blackwell).

Important to note: The costs for Hybrid OA paid by the FWF for articles published in 2014 with [IOP Publishing](#) are offset against subscription and licence fees paid by the Austrian Library Consortium for access to IOP’s journals. The same mechanism will be applied for articles published with [Taylor & Francis](#) from 2015 onwards.

As mentioned above, the FWF recently released a [new Open Access Policy](#) introducing price caps for Hybrid (EUR 1.500) and Gold Open Access (EUR 2.500) for projects funded after 1<sup>st</sup> November 2014. It is worth noting that looking at the present dataset and the average Hybrid OA costs per publisher, only the costs of three (out of the top 25) publishers would not have exceeded the price limit, whereas for Gold Open Access the average costs of all publishers would still be within the cost limit. It will be interesting to see how the market will react to these caps in the future and if the OA Policy will influence the Hybrid OA costs.

In 2014, the market for Gold Open Access for FWF-funded publications is dominated by the Public Library of Science (PLOS) followed by Springer and the Nature Publishing Group (NPG). Keeping the recent [merger between Springer and Holtzbrinck](#) (NPG + MacMillan) and the Open Access deals of Springer with The [Netherlands](#) and [UK in mind](#), it can be expected that Springer and Nature will take up the leading market position in Gold Open Access publishing in the near future.

It is also interesting that Wiley, Taylor & Francis and Elsevier have only a minor or no share for Gold Open Access funding in 2014 at the FWF. In comparison with 2013 the average price per Gold OA article (EUR 1.393) slightly decreased to EUR 1.288.

Finally, there is still a significant number of publishers (Elsevier, Wiley and Springer) which request additional author fees for subscription-based journals (e.g. colour figures, page charges and submission fees). With the [new Open Access Policy](#), the FWF has decided to cease to cover these cost items for projects funded since November 2014. The average price per Other Publication costs per article slightly increased from EUR 1.074 in 2013 to EUR 1.191 in 2014.

<sup>4</sup> The numbers shown in this table do not reflect the exact number of publications during 2014; in some cases publishers sent multiple invoices for different item costs.



Table 5: Share of Publishers 2014

	Hybrid Open Access			Gold Open Access			Other Publication costs			in total		
Publisher	No. Articles	total spend	average APC	No. articles	total spend	average APC	No. articles	total spend	average APC	No. articles	total spend	average APC
Elsevier	205	€ 448.465,15	€ 2.187,63				44	€ 47.331,35	€ 1.075,71	249	€ 495.796,50	€ 1.991,15
Wiley-Blackwell	120	€ 310.961,45	€ 2.591,35	10	€ 21.967,20	€ 2.196,72	35	€ 39.398,42	€ 1.125,67	165	€ 372.327,07	€ 2.256,53
American Chemical Society (ACS)	113	€ 286.428,75	€ 2.534,77				1	€ 345,26		114	€ 286.774,01	€ 2.515,56
Springer (incl. Biomed Central, Springer Open)	80	€ 208.168,00	€ 2.602,10	33	€ 52.811,20	€ 1.600,34	6	€ 6.783,00	€ 1.130,50	119	€ 267.762,20	€ 2.250,10
Nature Publishing Group (NPG) (incl. Frontiers)	32	€ 107.822,31	€ 3.369,45	32	€ 35.042,28	€ 1.095,07	27	€ 43.483,67	€ 1.610,51	91	€ 186.348,26	€ 2.047,78
Public Library of Science (PLOS)				84	€ 96.331,92	€ 1.146,81				84	€ 96.331,92	€ 1.146,81
IOP Publishing	22	€ 45.263,23	€ 2.057,42	20	€ 29.284,32	€ 1.464,22	14	€ 12.768,10	€ 912,01	56	€ 87.315,65	€ 1.559,21
Oxford University Press	23	€ 57.770,14	€ 2.511,75	5	€ 10.308,00	€ 2.061,60	9	€ 8.173,51	€ 908,17	37	€ 76.251,65	€ 2.060,86
Taylor & Francis (inkl. Informa Health Care and Landes Bioscience)	32	€ 57.239,12	€ 1.788,72				8	€ 6.977,77	€ 872,22	40	€ 64.216,89	€ 1.605,42
American Institute of Physics (AIP)	18	€ 31.832,95	€ 1.768,50	2	€ 2.984,20	€ 1.492,10	13	€ 5.603,53	€ 431,04	33	€ 40.420,68	€ 1.224,87
American Society for Biochemistry and Molecular Biology (ASBMB)	9	€ 15.646,95	€ 1.738,55				19	€ 16.820,53	€ 885,29	28	€ 32.467,48	€ 1.159,55
American Physical Society (APS)	8	€ 12.038,12	€ 1.504,77	4	€ 4.451,80	€ 1.112,95	9	€ 7.641,80	€ 849,09	21	€ 24.131,72	€ 1.149,13
American Society for Microbiology (ASM)	4	€ 9.043,74	€ 2.260,94				10	€ 14.171,12	€ 1.417,11	14	€ 23.214,86	€ 1.658,20
Optical Society of America (OSA)	3	€ 5.131,32	€ 1.710,44	13	€ 17.420,66	€ 1.340,05	1	€ 397,71	€ 397,71	17	€ 22.949,69	€ 1.349,98
National Academy of Sciences of the United States of America	7	€ 9.931,30	€ 1.418,76				5	€ 8.472,86	€ 1.694,57	12	€ 18.404,16	€ 1.533,68
American Society of Hematology	3	€ 6.090,04	€ 2.030,01				6	€ 10.898,83	€ 1.816,47	9	€ 16.988,87	€ 1.887,65
MDPI				12	€ 14.164,13	€ 1.180,34				12	€ 14.164,13	€ 1.180,34
American Association of Immunologists (AAI)	1	€ 2.261,23	€ 2.261,23				6	€ 10.493,40	€ 1.748,90	7	€ 12.754,63	€ 1.822,09
The Company of Biologists Ltd	3	€ 10.130,53	€ 3.376,84	2	€ 2.520,00	€ 1.260,00				5	€ 12.650,53	€ 2.530,11
Copernicus Publications				10	€ 10.361,39	€ 1.036,14	1	€ 1.069,81	€ 1.069,81	11	€ 11.431,20	€ 1.039,20
The Royal Society	5	€ 10.160,52	€ 2.032,10				1	€ 451,84		6	€ 10.612,36	€ 1.768,73
Institute of Electrical and Electronics Engineers (IEEE)	6	€ 8.465,85	€ 1.410,98				1	€ 656,99	€ 656,99	7	€ 9.122,84	€ 1.303,26
Mary Ann Liebert	2	€ 4.309,99	€ 2.155,00				4	€ 5.938,45	€ 1.484,61	6	€ 10.248,44	€ 1.708,07
Geological Society of America	2	€ 4.420,21	€ 2.210,11				2	€ 3.115,16	€ 1.557,58	4	€ 7.535,37	€ 1.883,84
American Meteorological Society (AMS)	4	€ 4.590,56	€ 1.147,64				4	€ 5.264,70	€ 1.316,18	8	€ 9.855,26	€ 1.231,91
OTHER PUBLISHERS	78	€ 138.432,35	€ 1.774,77	20	€ 19.117,68	€ 955,88	54	€ 77.238,66	€ 1.430,35	152	€ 234.788,69	€ 1.544,66
In total	780	€ 1.794.603,81	€ 2.300,41	247	€ 316.764,78	€ 1.287,68	280	€ 333.496,47	€ 1.191,06	1307	€ 2.444.865,06	