H2020 PUBLICATION DATA

OPENAIRE REPORT, DECEMBER 2016

BASIC INFORMATION

H2020: Total of **10684** projects - **2017 (19%)** of them have ended and **8667** are ongoing. OpenAIRE has identified **6133** publications linked to **1375** H2020 projects.

HOW DID WE IDENTIFY THEM?

- Through our extensive network of National Open Access Desks in 33 European countries that advocate for Green OA so researchers deposit print/post print publications in institutional or thematic repositories, and for Gold OA so that they use H2020 funds to publish in OA journals. Fully OpenAIRE compliant repositories automatically identify and report these publications.
- Integration of EC's reporting databases into OpenAIRE data, after this is cross checked with existing OpenAIRE data and CrossRef.
- Claims on the portal from researchers or project coordinators: 5,254 publi cations claimed by 323 users over a period of 2+ years.
- Text mining for H2020 grants in the full text of publications.

WHAT TYPE OF PUBLICATIONS?

The typology in Table 1 is based on the OpenAIRE guidelines vocabulary.



Table 1. H2020 publications by type

Туре	Publications		
Article	3822		
Conference object	1344		
Part of book or chapter of book	248		
Unknown	240		
Preprint	153		
Research	82		
Report	80		
Other	80		
Lecture	31		
Doctoral thesis	16		
Book	10		
Collection	9		
Software	7		
Master thesis	4		
Review	3		
Bachelor thesis	1		
External research report	1		
Data Paper	1		
Annotation	1		

H2020 publications by type

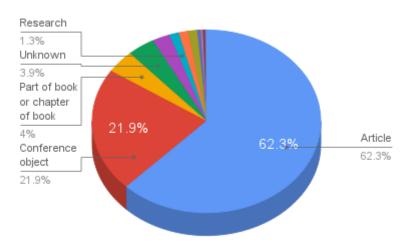


Figure 1. H2020 publications by type

OVERALL OBSERVATIONS AND STATISTICS

5,428 H2020 publications have a DOI and 2,151 have links to the Scimago (http://www.scimagojr.com) database. Even though these numbers can be further increased and refined via queries to CrossRef, we need to pay special attention and do further processing (disambiguation, de-duplication) as CrossRef's generic APIs does not allow for specialized/advanced queries.

Table 2 and Figure 2 show the H2020 publications over the years. 203 publications do not have a valid publication date.

Table 2. H2020 publication timeline

Year	Publications
2013	11
2014	138
2015	1951
2016	3804
2017	26
N/A	203
Total	6133

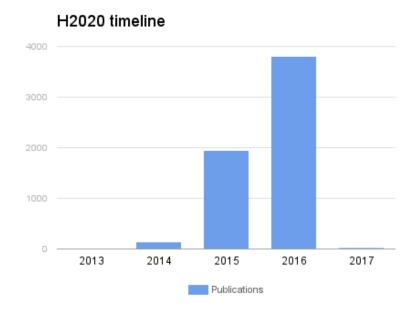


Figure 2. H2020 timeline diagram

Table 3. H2020 timeline by scientific area

Scientific area	2013	2014	2015	2016	2017	Total
BBI-RIA				1		1
COFUND-EJP	1	67	264	169		501
CS2-IA	1		1			2
CSA		1	57	123	3	184
CSA-LS				1		1
ECSEL-IA			15	11		26
ECSEL-RIA			4	12	1	17
ERA-NET-Cofund				2		2
ERC	1	15	217	691	9	933
IA	2	3	126	176	1	308
MSCA-COFUND-FP		1		1		2
MSCA-IF-EF-CAR		1		4		5
MSCA-IF-EF-RI			19	34		53
MSCA-IF-EF-ST		2	44	213	3	262
MSCA-IF-GF			1	23		24
MSCA-ITN-EID				2		2
MSCA-ITN-EJD			6	12		18
MSCA-ITN-ETN			43	214		257
MSCA-RISE		13	134	270	2	419
RIA	6	35	1025	1866	7	2939
SESAR-RIA				4	1	5
SGA-CSA			2	10		12
SGA-RIA			2	27		29
SME-1			1	1		2
SME-2			4	16		20
Total Result	11	138	1965	3883	27	6024



2000 BBI-RIA COFUND-EJP → CS2-IA → CSA → CSA-LS ECSEL-IA ◆ ECSEL-RIA 1500 Cofund → IA → MSCA-COFUND-FP MSCA-IF-EF-CAR 1000 → MSCA-IF-E... → MSCA-IF-E... → MSCA-IF-GF → MSCA-ITN-... → MSCA-ITN-... → MSCA-ITN-... 500 MSCA-RISE → SESAR-RIA → SGA-CSA → SGA-RIA SME-1 → SME-2

H2020 timeline by scientific area

Figure 3. H2020 timeline by scientific area

2013

2014

Projects publish anywhere from 1 to a max of 446 publications, with an average of 23 publications per project. Table 4 illustrates this breakdown by scientific area.

2015

2016

2017

Table 4. H2020 scientific areas project publication outputs

Scientific Area	Actual	Min	Max	Average
BBI-RIA	1	1	1	1
COFUND-EJP	501	501	501	501
CS2-IA	2	2	2	2
CSA	198	1	30	3
CSA-LS	1	1	1	1
ECSEL-IA	26	1	16	7
ECSEL-RIA	17	4	5	4
ERA-NET-Cofund	2	1	1	1
ERC	951	1	34	3
IA	323	1	22	4
MSCA-COFUND-FP	2	1	1	1
MSCA-IF-EF-CAR	5	1	1	1
MSCA-IF-EF-RI	54	1	20	3
MSCA-IF-EF-ST	271	1	7	2
MSCA-IF-GF	24	1	5	2
MSCA-ITN-EID	2	2	2	2
MSCA-ITN-EJD	19	1	13	5
MSCA-ITN-ETN	260	1	37	4
MSCA-RISE	426	1	57	6
RIA	3074	1	115	7
SESAR-RIA	6	1	2	1
SGA-CSA	13	1	5	3
SGA-RIA	29	5	19	10
SME-1	2	1	1	1
SME-2	20	1	9	3
Total Result	6229	1	501	23

OpenAIRE

H2020 publications by scientific area

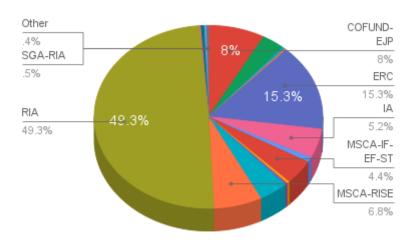


Figure 4. H2020 publications by project type

OPEN ACCESS EVALUATION

From the total of 6.133 H2020 publications 3.731 are OA, 7 are restricted (i.e., OA but with a more restrictive license or restricted to specific groups), while 38 are still in embargo. This translates to (a minimum) of 60.8% success rate.

Further analysis needs to be carried out as the overall data is biased towards closed access as a) we cannot easily define OA articles in hybrid journals, and b) there is still a large number of not fully OpenAIRE compliant repositories (i.e., no funding information attached to the publication metadata) so H2020 publications may have been deposited but not yet identified.

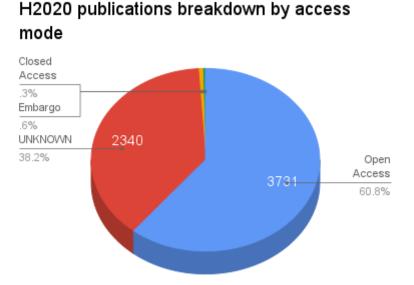


Figure 5. Overall H2020 OA evaluation

Table 5 shows the breakdown of H2020 publications from 2013-2016 broken down by their access state.

Table 5. H2020 publications 2007-2016 by access status

Year	Open Access	Closed Access	Embargo	Restricted	Unknown	Total Result	OA success rate
2013	8	1			2	11	73%
2014	106	1			31	138	77%
2015	1112	4	5	4	826	1951	57%
2016	2450	10	33	3	1308	3804	64%
2017	13				13	26	50%
Total	3689	16	38	7	2180	5930	62%

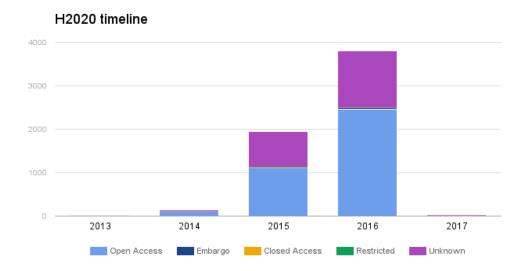
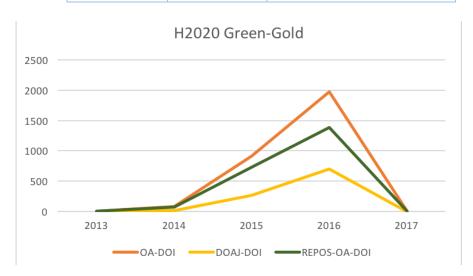


Figure 6. H2020 timeline, including OA status

GREEN VS. GOLD

The following table and figure shows an estimate of Green and Gold OA¹ over the years²

Year	OA-DOI	DOAJ-DOI	REPOS-OA-DOI
2013	4	1	3
2014	80	11	74
2015	915	268	727
2016	1971	701	1381
2017	5	0	5



1

 $^{^{1}}$ As there are more H2020 publications in non-OpenAIRE compatible repositories the green estimate is on the low side.

 $^{^{2}}$ Depositions in repositories usually have a lag (i.e., we will see more of 2015-2016 publications deposited in the next years).



H2020 publications by scientific area

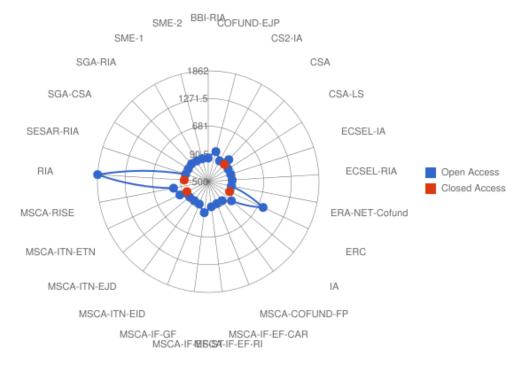


Figure 7. Schematic breakdown of Open/Closed Access publications in H2020

H2020 publications by scientific area

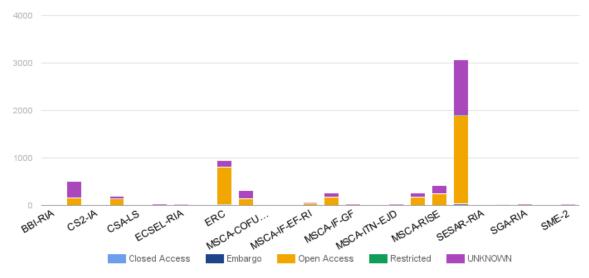


Figure 8. H2020 publications OA status by scientific area



Table 6. H2020 publication by scientific area by access status

Scientific area	Total	Open Access	Closed Access	Embargo	Restricted	Unknown	OA success rate
BBI-RIA	1	1					100%
COFUND-EJP	501	160		1		340	32%
CS2-IA	2	2					100%
CSA	198	142	2	1		53	72%
CSA-LS	1	1					100%
ECSEL-IA	26	3				23	12%
ECSEL-RIA	17	10				7	59%
ERA-NET-Cofund	2	2					100%
ERC	951	794	3	11		143	83%
IA	323	143		3		177	44%
MSCA-COFUND-FP	2	2					100%
MSCA-IF-EF-CAR	5	3				2	60%
MSCA-IF-EF-RI	54	42		1		11	78%
MSCA-IF-EF-ST	271	168		2		101	62%
MSCA-IF-GF	24	16				8	67%
MSCA-ITN-EID	2	1				1	50%
MSCA-ITN-EJD	19	14				5	74%
MSCA-ITN-ETN	260	168	1	2		89	65%
MSCA-RISE	426	252		2		172	59%
RIA	3074	1862	11	16	7	1178	61%
SESAR-RIA	6	5				1	83%
SGA-CSA	13	1				12	77%
SGA-RIA	29	19				10	66%
SME-1	2	2					100%
SME-2	20	3				17	15%
Total Result	6229	3816	17	39	7	2350	61%

ADVANCED STATISTICS

IMPACT

After we cross-matched the OpenAIRE data to Scimago's latest web files, we were able to come up with the data in Table 15. "High impact" journals are statistically computed for each thematic area by retrieving journals with the top 25% higher citation factors.

Table 15. Impact of H2020 articles from Scimago citation factors.

Funding area	Articles in 'peer- reviewed journals'	Articles in 'peer- reviewed high impact journal'	High impact success rate	OA articles in 'peer- reviewed journals	OA articles in 'peer-reviewed high impact journal'	Overall OA success rate
BBI-RIA	1	1	100%	1	1	100%
COFUND-EJP	343	256	75%	81	67	83%
CS2-IA	2	2	100%	2	2	100%
CSA	69	49	71%	50	41	82%
ECSEL-IA	3	0	0%	2	0	0%
ECSEL-RIA	8	4	50%	4	2	50%
ERA-NET-Cofund	1	1	100%	1	1	100%
ERC	339	299	88%	281	250	89%
IA	75	39	52%	20	15	75%
MSCA-COFUND-FP	1	1	100%	1	1	100%
MSCA-IF-EF-CAR	4	3	75%	2	1	50%
MSCA-IF-EF-RI	10	9	90%	7	6	86%
MSCA-IF-EF-ST	113	91	81%	70	59	84%
MSCA-IF-GF	11	9	82%	7	6	86%
MSCA-ITN-EID	2	1	50%	0	0	0%
MSCA-ITN-EJD	9	8	89%	6	5	83%
MSCA-ITN-ETN	97	82	85%	56	52	93%
MSCA-RISE	176	126	72%	78	56	72%
RIA	865	595	69%	490	369	75%
SESAR-RIA	2	2	100%	2	2	100%
SGA-CSA	7	3	43%	1	0	0%
SGA-RIA	11	9	82%	6	6	100%
SME-1	1	0	0%	1	0	0%
SME-2	9	9	100%	3	3	100%
Total H2020	2151	1596	74%	1169	946	81%



Table 16. H2020 publications broken down by Scimago's journal classification.

Journal thematic area	All	OA	OA rate	All	OA	OA rate
Acoustics and Ultrasonics	7	3	43%	7	3	43%
Aerospace Engineering	3	2	67%	1	0	0%
Aging	9	7	78%	8	7	88%
Agricultural and Biological Sciences (miscellaneous)	106	104	98%	104	102	98%
Agronomy and Crop Science	11	2	18%	10	1	10%
Algebra and Number Theory	1	1	100%	0	0	0%
Analysis	7	5	71%	3	1	33%
Analytical Chemistry	8	2	25%	5	1	20%
Anatomy	1	1	100%	1	1	100%
Anesthesiology and Pain Medicine	2	2	100%	2	2	100%
Animal Science and Zoology	6	1	17%	4	1	25%
Applied Mathematics	27	17	63%	21	14	67%
Applied Microbiology and Biotechnology	6	5	83%	6	5	83%
Applied Psychology	1	0	0%	0	0	0%
Aquatic Science	9	2	22%	8	2	25%
Archeology	1	0	0%	1	0	0%
Archeology (arts and humanities)	1	0	0%	1	0	0%
Artificial Intelligence	23	13	57%	15	9	60%
Arts and Humanities (miscellaneous)	3	2	67%	2	2	100%
Astronomy and Astrophysics	23	20	87%	0	0	0%
Atmospheric Science	22	14	64%	17	9	53%
Atomic and Molecular Physics, and Optics	114	32	28%	53	18	34%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
Automotive Engineering	3	2	67%	3	2	67%
Behavioral Neuroscience	7	5	71%	4	4	100%
Biochemistry	29	23	79%	16	12	75%
Biochemistry, Genetics and Molecular Biology (miscellaneous)	210	203	97%	197	190	96%
Bioengineering	16	6	38%	7	3	43%
Biological Psychiatry	12	9	75%	7	5	71%
Biomaterials	11	4	36%	7	1	14%
Biomedical Engineering	25	10	40%	16	9	56%
Biophysics	15	10	67%	8	5	63%
Biotechnology	38	27	71%	27	23	85%
Building and Construction	14	11	79%	14	11	79%
Business and International Management	1	0	0%	0	0	0%
Business, Management and Accounting (miscellaneous)	8	3	38%	0	0	0%
Cancer Research	13	8	62%	8	5	63%
Cardiology and Cardiovascular Medicine	12	6	50%	11	6	55%
Catalysis	14	5	36%	11	4	36%
Cell Biology	17	14	82%	13	12	92%
Cellular and Molecular Neuroscience	16	16	100%	7	7	100%
Ceramics and Composites	14	5	36%	13	4	31%
Chemical Engineering (miscellaneous)	29	8	28%	26	7	27%
Chemistry (miscellaneous)	118	82	69%	114	81	71%
Civil and Structural Engineering	113	28	25%	28	21	75%
Clinical Biochemistry	5	2	40%	2	0	0%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
Cognitive Neuroscience	10	7	70%	4	3	75%
Colloid and Surface Chemistry	2	0	0%	2	0	0%
Communication	3	3	100%	3	3	100%
Computational Mathematics	6	6	100%	2	2	100%
Computational Mechanics	4	1	25%	4	1	25%
Computational Theory and Mathematics	20	12	60%	13	9	69%
Computer Graphics and Computer-Aided Design	23	17	74%	23	17	74%
Computer Networks and Communications	74	30	41%	48	19	40%
Computer Science (miscellaneous)	211	80	38%	22	12	55%
Computer Science Applications	109	48	44%	72	33	46%
Computer Vision and Pattern Recognition	8	7	88%	7	7	100%
Computers in Earth Sciences	6	3	50%	6	3	50%
Condensed Matter Physics	231	81	35%	142	64	45%
Conservation	3	0	0%	3	0	0%
Control and Optimization	1	0	0%	1	0	0%
Control and Systems Engineering	58	16	28%	35	5	14%
Critical Care and Intensive Care Medicine	2	0	0%	2	0	0%
Cultural Studies	1	1	100%	1	1	100%
Demography	1	0	0%	1	0	0%
Development	1	1	100%	1	1	100%
Developmental Biology	8	8	100%	8	8	100%
Developmental Neuroscience	1	1	100%	1	1	100%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
Developmental and Educational Psychology	1	0	0%	1	0	0%
Discrete Mathematics and Combinatorics	2	1	50%	2	1	50%
Drug Discovery	11	5	45%	7	1	14%
Earth and Planetary Sciences (miscellaneous)	25	16	64%	23	16	70%
Earth-Surface Processes	3	0	0%	2	0	0%
Ecological Modeling	2	0	0%	2	0	0%
Ecology	5	4	80%	2	1	50%
Ecology, Evolution, Behavior and Systematics	20	14	70%	17	14	82%
Economics and Econometrics	4	3	75%	2	1	50%
Education	4	4	100%	2	2	100%
Electrical and Electronic Engineering	157	50	32%	118	41	35%
Electrochemistry	13	4	31%	12	3	25%
Electronic, Optical and Magnetic Materials	107	35	33%	79	29	37%
Endocrine and Autonomic Systems	2	1	50%	2	1	50%
Endocrinology	5	2	40%	2	1	50%
Endocrinology, Diabetes and Metabolism	7	3	43%	6	3	50%
Energy (miscellaneous)	35	22	63%	29	18	62%
Energy Engineering and Power Technology	21	15	71%	19	13	68%
Engineering (miscellaneous)	21	10	48%	13	8	62%
Environmental Chemistry	20	5	25%	14	5	36%
Environmental Engineering	3	1	33%	3	1	33%
Environmental Science	19	10	53%	17	8	47%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
(miscellaneous)						
Epidemiology	5	2	40%	1	1	100%
Experimental and Cognitive Psychology	5	1	20%	1	0	0%
Finance	2	2	100%	0	0	0%
Fluid Flow and Transfer Processes	1	0	0%	1	0	0%
Food Science	5	3	60%	5	3	60%
Forestry	3	3	100%	1	1	100%
Fuel Technology	15	12	80%	14	11	79%
Gastroenterology	1	1	100%	0	0	0%
Gender Studies	1	1	100%	1	1	100%
Genetics	29	26	90%	20	18	90%
Genetics (clinical)	7	6	86%	5	4	80%
Geochemistry and Petrology	4	2	50%	4	2	50%
Geography, Planning and Development	4	2	50%	4	2	50%
Geology	10	3	30%	8	2	25%
Geometry and Topology	3	2	67%	0	0	0%
Geophysics	16	9	56%	16	9	56%
Geotechnical Engineering and Engineering Geology	3	0	0%	3	0	0%
Geriatrics and Gerontology	4	1	25%	2	1	50%
Gerontology	1	0	0%	0	0	0%
Global and Planetary Change	7	4	57%	5	3	60%
Hardware and Architecture	47	21	45%	31	15	48%
Health (social science)	1	0	0%	1	0	0%
Health Informatics	16	16	100%	15	15	100%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
Health Policy	6	6	100%	6	6	100%
Health, Toxicology and Mutagenesis	7	3	43%	1	1	100%
Hematology	2	0	0%	2	0	0%
History	2	0	0%	2	0	0%
History and Philosophy of Science	16	10	63%	16	10	63%
Human-Computer Interaction	10	4	40%	4	1	25%
Immunology	15	10	67%	11	9	82%
Immunology and Allergy	7	5	71%	7	5	71%
Immunology and Microbiology (miscellaneous)	36	34	94%	22	20	91%
Industrial and Manufacturing Engineering	36	13	36%	14	4	29%
Infectious Diseases	19	8	42%	19	8	42%
Information Systems	40	25	63%	31	21	68%
Information Systems and Management	5	1	20%	5	1	20%
Inorganic Chemistry	13	1	8%	4	0	0%
Insect Science	1	0	0%	0	0	0%
Instrumentation	62	17	27%	29	11	38%
Internal Medicine	1	0	0%	0	0	0%
Language and Linguistics	1	1	100%	1	1	100%
Law	12	8	67%	9	5	56%
Library and Information Sciences	12	9	75%	9	7	78%
Linguistics and Language	1	1	100%	1	1	100%
Logic	3	2	67%	0	0	09
Management Information Systems	1	0	0%	1	0	0%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
Management Science and Operations Research	3	3	100%	2	2	100%
Management, Monitoring, Policy and Law	9	8	89%	9	8	89%
Materials Chemistry	41	8	20%	35	8	23%
Materials Science (miscellaneous)	211	52	25%	118	45	38%
Mathematical Physics	59	15	25%	2	1	50%
Mathematics (miscellaneous)	11	2	18%	8	1	13%
Mechanical Engineering	143	39	27%	138	38	28%
Mechanics of Materials	26	12	46%	26	12	46%
Media Technology	2	1	50%	2	1	50%
Medical Laboratory Technology	2	2	100%	0	0	0%
Medicine (miscellaneous)	191	156	82%	146	136	93%
Metals and Alloys	16	5	31%	16	5	31%
Microbiology	16	10	63%	13	10	779
Microbiology (medical)	13	9	69%	13	9	69%
Modeling and Simulation	24	12	50%	14	6	43%
Molecular Biology	27	21	78%	13	11	85%
Molecular Medicine	12	9	75%	7	6	86%
Multidisciplinary	127	124	98%	126	123	98%
Nanoscience and Nanotechnology	57	21	37%	44	18	41%
Nature and Landscape Conservation	5	5	100%	2	2	100%
Neurology	15	13	87%	14	12	86%
Neurology (clinical)	11	8	73%	10	7	70%
Neuropsychology and Physiological Psychology	7	4	57%	6	4	679
Neuroscience	46	37	80%	33	27	82%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
(miscellaneous)						
Nuclear Energy and Engineering	165	34	21%	77	27	35%
Nuclear and High Energy Physics	210	87	41%	118	63	53%
Numerical Analysis	1	0	0%	1	0	0%
Nutrition and Dietetics	4	1	25%	3	0	0%
Ocean Engineering	2	1	50%	1	1	100%
Oceanography	9	1	11%	7	1	149
Oncology	14	8	57%	11	7	64%
Ophthalmology	1	1	100%	1	1	100%
Organic Chemistry	9	4	44%	5	2	40%
Orthopedics and Sports Medicine	2	1	50%	2	1	50%
Parasitology	5	3	60%	3	3	100%
Pathology and Forensic Medicine	2	0	0%	1	0	09
Pharmaceutical Science	7	2	29%	3	2	67%
Pharmacology	13	5	38%	13	5	38%
Pharmacology (medical)	7	3	43%	6	3	50%
Pharmacology, Toxicology and Pharmaceutics (miscellaneous)	10	9	90%	10	9	90%
Philosophy	5	2	40%	5	2	40%
Physical and Theoretical Chemistry	22	7	32%	18	6	339
Physics and Astronomy (miscellaneous)	192	130	68%	133	122	92%
Physiology	13	13	100%	12	12	100%
Physiology (medical)	10	7	70%	10	7	70%
Plant Science	26	14	54%	24	14	589
Political Science and	1	0	0%	1	0	09



Journal thematic area	All	OA	OA rate	All	OA	OA rate
International Relations						
Pollution	14	3	21%	10	2	20%
Polymers and Plastics	10	3	30%	8	3	38%
Process Chemistry and Technology	3	1	33%	3	1	33%
Psychiatry and Mental Health	19	11	58%	19	11	58%
Psychology (miscellaneous)	14	13	93%	14	13	93%
Public Health, Environmental and Occupational Health	8	6	75%	8	6	75%
Pulmonary and Respiratory Medicine	2	2	100%	2	2	100%
Radiation	7	2	29%	4	2	50%
Radiological and Ultrasound Technology	4	3	75%	3	2	67%
Radiology, Nuclear Medicine and Imaging	8	4	50%	7	3	43%
Rehabilitation	6	5	83%	6	5	83%
Religious Studies	1	1	100%	0	0	0%
Renewable Energy, Sustainability and the Environment	31	18	58%	29	16	55%
Safety, Risk, Reliability and Quality	8	3	38%	5	1	20%
Sensory Systems	3	2	67%	2	1	50%
Signal Processing	12	6	50%	7	3	43%
Social Sciences (miscellaneous)	5	3	60%	3	1	33%
Sociology and Political Science	4	3	75%	2	1	50%
Software	74	33	45%	44	16	36%
Soil Science	10	4	40%	9	4	44%



Journal thematic area	All	OA	OA rate	All	OA	OA rate
Space and Planetary Science	10	9	90%	0	0	0%
Spectroscopy	8	3	38%	4	3	75%
Speech and Hearing	1	0	0%	0	0	0%
Sports Science	2	1	50%	2	1	50%
Statistical and Nonlinear Physics	14	7	50%	5	1	20%
Statistics and Probability	13	11	85%	1	1	100%
Statistics, Probability and Uncertainty	4	4	100%	0	0	0%
Strategy and Management	3	3	100%	3	3	100%
Structural Biology	15	12	80%	7	4	57%
Surfaces and Interfaces	2	0	0%	1	0	0%
Surfaces, Coatings and Films	44	11	25%	39	10	26%
Surgery	2	2	100%	2	2	100%
Theoretical Computer Science	175	65	37%	4	2	50%
Tourism, Leisure and Hospitality Management	1	1	100%	1	1	100%
Toxicology	3	2	67%	1	0	0%
Transportation	2	2	100%	2	2	100%
Urban Studies	1	1	100%	1	1	100%
Veterinary (miscellaneous)	6	1	17%	5	1	20%
Virology	8	5	63%	4	3	75%
Waste Management and Disposal	4	2	50%	4	2	50%
Water Science and Technology	3	2	67%	3	2	67%
Total	5267	2703	51%	3451	2057	60%

H2020 articles by Scimago's journal classification for areas with > 100 articles

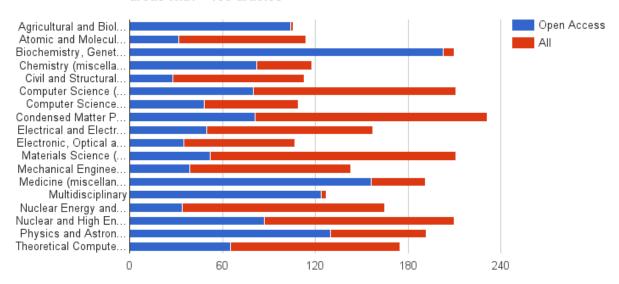


Figure 14. H2020 articles by Scimago's journal classification.



AUTHOR STATISTICS. AUTHOR NETWORKS.

Table 17. Statistics on authors of H2020 publications.

Number of Authors

Scientific area	Average	Min	Median			
BBI-RIA	6	6	6			
COFUND-EJP	9.42	1	7			
CS2-IA	4	4	4			
CSA	5.21	1	4			
ECSEL-IA	8.73	4	7			
ECSEL-RIA	4.35	1	4			
ERA-NET-Cofund	13	7	13			
ERC	6.12	1	4			
IA	4.31	1	4			
MSCA-COFUND-FP	7	3	7			
MSCA-IF-EF-CAR	9.4	3	4			
MSCA-IF-EF-RI	3.96	1	3			
MSCA-IF-EF-ST	5.61	1	4			
MSCA-IF-GF	8.63	1	5			
MSCA-ITN-EID	8.5	6	9			
MSCA-ITN-EJD	4.21	2	4			
MSCA-ITN-ETN	5.63	1	5			
MSCA-RISE	6.86	1	4			
RIA	5.96	1	4			
SESAR-RIA	5	1	4			
SGA-CSA	3.15	1	2			
SGA-RIA	5.07	2	4			
SME-1	3.5	3	4			
SME-2	9.95	2	7			
H2020	6.19	1	4			

In addition we did some calculations and comparisons (simple network analysis) to see how authors collaborated during H2020 and whether these collaborations existed before. Table 18 shows the values of author collaborations (in pairs) before the beginning, and during the H2020 project.

Column explanation in Table 18:

<u>Author pairs during:</u> number of author pairs that collaborated for an H2020 paper <u>Author pairs before:</u> author pairs that have collaborated before an H2020 paper



Table 18. Author networks before, during H2020.

Author pairs

Scientific area	During	Before
BBI-RIA	15	15
COFUND-EJP	29964	512
CS2-IA	6	6
CSA	3047	636
ECSEL-IA	1139	4
ECSEL-RIA	116	27
ERA-NET-Cofund	192	20
ERC	24483	6703
IA	3489	183
MSCA-COFUND-FP	58	11
MSCA-IF-EF-CAR	462	13
MSCA-IF-EF-RI	821	398
MSCA-IF-EF-ST	3941	302
MSCA-IF-GF	2821	1204
MSCA-ITN-EJD	124	3
MSCA-ITN-ETN	4532	283
MSCA-RISE	47628	612
RIA	110741	11731
SESAR-RIA	58	3
SGA-CSA	106	2
SGA-RIA	350	3
SME-2	1862	7
H2020	231966	20043