

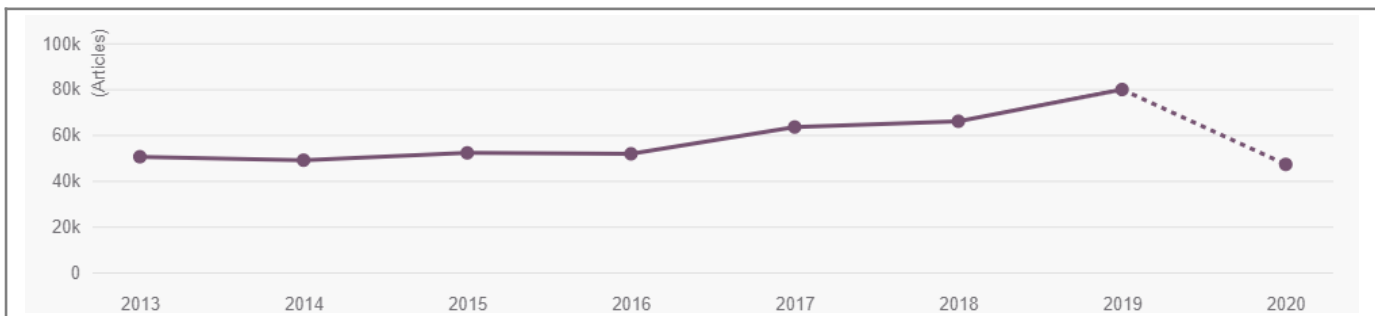
A8700 - Biophysics, medical physics, and biomedical engineering

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Report generated from year 2013 to 2020

<p>Articles published</p> <p>459605 articles published with this Subject classification between 2013 - 2020</p>
<p>Articles published % change</p> <p>Between 2013 - 2019 article output increased 58.13%</p>
<p>Times cited</p> <p>Articles published with this Subject classification between 2013 - 2020 have been cited 1002352 times, with an average of 2.18 citations per article</p>

Subject classification over time



#	Year	Articles	% Change	Times cited	Avg times cited
1	2013	50468	n/a	231381	4.58
2	2014	48953	-3.00%	210135	4.29
3	2015	52147	6.52%	181115	3.47
4	2016	51738	-0.78%	153809	2.97
5	2017	63425	22.59%	125957	1.99
6	2018	65956	3.99%	67864	1.03
7	2019	79803	20.99%	26331	0.33
8	2020	47115	n/a	5760	0.12

Co-occurring concepts

#	Controlled terms	Articles
1	cellular biophysics	99190
2	molecular biophysics	98340
3	medical image processing	89040
4	biomedical materials	71908
5	biochemistry	63079
6	diseases	62474
7	proteins	61314
8	cancer	51310
9	nanomedicine	49110
10	biomechanics	40057
11	nanoparticles	39837
12	medical signal processing	39673
13	neurophysiology	37441
14	biomedical optical imaging	34643
15	nanofabrication	34237
16	tumours	34078
17	biomedical MRI	31965
18	microorganisms	31771
19	biological tissues	29993
20	drugs	29384

Total terms : 7594

#	Subject classifications	Articles
1	A8000 - Cross-disciplinary physics and related areas of science and technology	459605
2	A8770 - Biomedical engineering	346149
3	B7000 - Instrumentation and special applications	288155
4	B7500 - Medical physics and biomedical engineering	276646
5	B7510 - Biomedical measurement and imaging	212422
6	C7000 - Computer applications	167418
7	C7300 - Natural sciences computing	166087
8	C7330 - Biology and medical computing	165952
9	A8770E - Patient diagnostic methods and instrumentation	161813
10	A8760 - Medical and biomedical uses of fields, radiations, and radioactivity; health physics	158227
11	B6000 - Communications	142943
12	C5000 - Computer hardware	139979
13	C5200 - Logic design and digital techniques	138170
14	B6100 - Information and communication theory	137016
15	C5260 - Digital signal processing	136228
16	A8715 - Molecular biophysics	110762
17	A8725 - Cellular biophysics	110154
18	A0000 - General	106460
19	B6135 - Optical, image and video signal processing	95767
20	C5260B - Computer vision and image processing techniques	95746

Total codes : 2901

Top organisations

#	Organisations	Articles
1	Shanghai Jiao Tong University Shanghai, China academic	3869
2	Harvard University Cambridge, USA academic	3401
3	Tsinghua University Beijing, China academic	3212
4	Stanford University Stanford, USA academic	2882
5	Zhejiang University Hangzhou, China academic	2842
6	Johns Hopkins University Baltimore, USA academic	2827
7	Imperial College London London, UK academic	2687
8	University College London London, UK academic	2639
9	University of Michigan Ann Arbor, USA academic	2503
10	University of Toronto Toronto, Canada academic	2408

#	Organisations	Articles
11	Nanyang Technological University Singapore, Singapore academic	2291
12	National University of Singapore Singapore, Singapore academic	2239
13	Tianjin University Tianjin, China academic	2203
14	Peking University Beijing, China academic	2182
15	Tokyo Daigaku Bunkyo-ku, Japan academic	2092
16	University of Pennsylvania Philadelphia, USA academic	2092
17	Sichuan University Chengdu, China academic	2077
18	University of Oxford Oxford, UK academic	2076
19	University of California Los Angeles Los Angeles, USA academic	2071
20	Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren Bonn, Germany academic	2002

Total organisations : 15129

Journals

#	Journal	Articles
1	Proceedings of SPIE - Progress in Biomedical Optics and Imaging	13118
2	Proceedings of SPIE	8707
3	arXiv	6797
4	Materials Science and Engineering: C (Materials for Biological Applications)	6499
5	Biosensors and Bioelectronics	6261
6	Journal of Physics: Conference Series	4938
7	Biomaterials	4860
8	Journal of Materials Chemistry B	4806
9	AIP Conference Proceedings	4465
10	Sensors and Actuators B: Chemical	4134
11	Physics in Medicine & Biology	4114
12	International Journal of Biological Macromolecules	3558
13	Acta Biomaterialia	3435
14	Biophysical Journal	3423
15	Journal of Biomechanics	3204
16	Nanoscale	3160
17	Sensors	3031
18	Journal of the Acoustical Society of America	2980
19	Magnetic Resonance in Medicine	2972
20	IEEE Access	2674

Total journals : 3723

Conferences

#	Conference	Articles
1	2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). Proceedings	1818
2	2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	1716
3	2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	1549
4	2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	1445
5	2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	1374
6	2018 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	1197
7	2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)	1168
8	2017 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	1073
9	2017 IEEE International Ultrasonics Symposium (IUS)	977
10	2019 IEEE International Ultrasonics Symposium (IUS). Proceedings	413
11	2013 IEEE Nuclear Science Symposium and Medical Imaging Conference (2013 NSS/MIC)	404
12	2015 IEEE 12th International Symposium on Biomedical Imaging (ISBI)	365
13	2020 IEEE International Ultrasonics Symposium (IUS)	363
14	2020 IEEE 17th International Symposium on Biomedical Imaging (ISBI)	361
15	2013 6th International IEEE/EMBS Conference on Neural Engineering (NER 2013)	350
16	2013 IEEE 10th International Symposium on Biomedical Imaging: From Nano to Macro (ISBI 2013)	350
17	2014 IEEE International Ultrasonics Symposium (IUS)	346
18	2019 IEEE 16th International Symposium on Biomedical Imaging (ISBI 2019)	343
19	2014 IEEE 11th International Symposium on Biomedical Imaging (ISBI 2014)	328
20	2018 IEEE International Ultrasonics Symposium (IUS)	323

Total conferences : 10633

Related controlled terms

#	Controlled terms	Articles
1	biochemistry	63079
2	diseases	62474
3	cancer	51310
4	tumours	34078
5	microorganisms	31771
6	biological tissues	29993
7	drugs	29384
8	bone	26249
9	blood	20139
10	medical disorders	16757
11	skin	12121
12	cardiology	11671
13	biological organs	11067

#	Controlled terms	Articles
14	lung	10570
15	cardiovascular system	8974
16	liver	7218
17	dentistry	7145
18	biodiffusion	6038
19	biomimetics	5228
20	kidney	3451

Total terms : 32

Related Subject classifications

#	Parent
1	A8000 - Cross-disciplinary physics and related areas of science and technology

Total codes : 1

#	Siblings	Articles
1	A8600 - Energy research and environmental science	0
2	A8100 - Materials science	0
3	A8200 - Physical chemistry	0

Total codes : 3

#	Children	Articles
1	A8710 - General, theoretical, and mathematical biophysics	
2	A8715 - Molecular biophysics	
3	A8716 - Biothermics	
4	A8720 - Membrane biophysics	
5	A8725 - Cellular biophysics	
6	A8728 - Bioelectricity	
7	A8730 - Biophysics of neurophysiological processes	
8	A8732 - Physiological optics, vision	
9	A8734 - Audition	
10	A8736 - Speech and biocommunications	
11	A8738 - Mechano- and chemio-ceptions	
12	A8740 - Biomagnetism	
13	A8745 - Biomechanics, biorheology, biological fluid dynamics	
14	A8750 - Biological effects of radiations	
15	A8760 - Medical and biomedical uses of fields, radiations, and radioactivity; health physics	
16	A8765 - Aerospace biophysics and medical physics (effects of accelerations, weightlessness and environment)	
17	A8770 - Biomedical engineering	
18	A8780 - Biophysical instrumentation and techniques	
19	A8783 - Nanotechnology applications in biomedicine	
20	A8790 - Other topics in biophysics, medical physics, and biomedical engineering	

Total codes : 20