

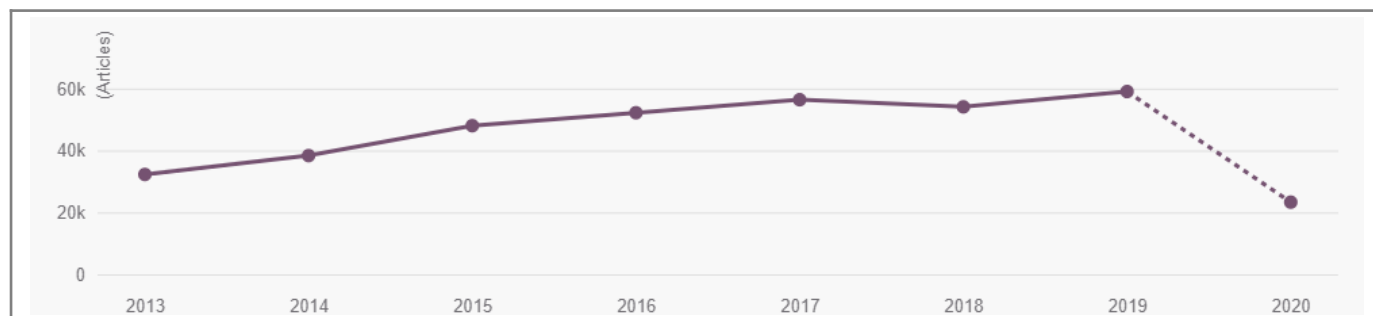
# A8600 - Energy research and environmental science

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Report generated from year 2013 to 2020

<p><b>Articles published</b></p> <p>363718 articles published with this Subject classification between 2013 - 2020</p>
<p><b>Articles published % change</b></p> <p>Between 2013 - 2019 article output increased <b>83.06%</b></p>
<p><b>Times cited</b></p> <p>Articles published with this Subject classification between 2013 - 2020 have been cited <b>1578711</b> times, with an average of <b>4.34</b> citations per article</p>

## Subject classification over time



#	Year	Articles	% Change	Times cited	Avg times cited
1	2013	32260	n/a	318326	9.87
2	2014	38352	18.88%	355850	9.28
3	2015	48018	25.20%	353777	7.37
4	2016	52198	8.71%	295826	5.67
5	2017	56410	8.07%	186473	3.31
6	2018	54103	-4.09%	64285	1.19
7	2019	59056	9.15%	4174	0.07
8	2020	23321	n/a	0	0

### Co-occurring concepts

#	Controlled terms	Articles
1	electrochemical electrodes	60460
2	solar cells	45164
3	secondary cells	42120
4	nanofabrication	28973
5	organic compounds	26872
6	energy conservation	24355
7	lithium compounds	23575
8	wastewater treatment	22690
9	X-ray diffraction	22095
10	catalysts	20612
11	scanning electron microscopy	19815
12	catalysis	19783
13	nanoparticles	18814
14	telecommunication power management	18520
15	adsorption	18124
16	current density	17609
17	biofuel	17541
18	oxidation	17124
19	air pollution	15279
20	electrolytes	14938

Total terms : 7788

#	Subject classifications	Articles
1	<a href="#">A8000 - Cross-disciplinary physics and related areas of science and technology</a>	363718
2	<a href="#">B8000 - Power systems and applications</a>	188771
3	<a href="#">A8630 - Energy conversion</a>	157954
4	<a href="#">B8400 - Direct energy conversion and energy storage</a>	152279
5	<a href="#">A8200 - Physical chemistry</a>	114864
6	<a href="#">A8670 - Environmental science</a>	83213
7	<a href="#">B8410 - Electrochemical conversion and storage</a>	73308
8	<a href="#">A8245 - Electrochemistry and electrophoresis</a>	72229
9	<a href="#">E1000 - Manufacturing and production</a>	70763
10	<a href="#">A8620 - Energy utilisation</a>	68295
11	<a href="#">E0000 - General topics in manufacturing and production engineering</a>	62646
12	<a href="#">E0200 - General support functions</a>	61920
13	<a href="#">A6000 - Condensed matter: structure, thermal and mechanical properties</a>	61185
14	<a href="#">E1500 - Production technology</a>	59157
15	<a href="#">A8100 - Materials science</a>	58878
16	<a href="#">B0000 - General topics, engineering mathematics and materials science</a>	58209
17	<a href="#">A8610 - Energy resources and fuels</a>	57043
18	<a href="#">E0230 - Environmental issues</a>	56392
19	<a href="#">B8420 - Solar cells and arrays</a>	55079
20	<a href="#">E1525 - Industrial processes</a>	54034

Total codes : 2831

## Top organisations

#	Organisations	Articles
1	<a href="#">Tsinghua University</a> Beijing, China Academic	4682
2	<a href="#">Harbin Institute of Technology</a> Harbin, China Academic	2819
3	<a href="#">Zhejiang University</a> Hangzhou, China Academic	2730
4	<a href="#">Tianjin University</a> Tianjin, China Academic	2602
5	<a href="#">Chinese Academy of Sciences</a> Beijing, China Academic	2588
6	<a href="#">Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren</a> Bonn, Germany Academic	2464
7	<a href="#">Shanghai Jiao Tong University</a> Shanghai, China Academic	2441
8	<a href="#">Huazhong University of Science and Technology</a> Wuhan, China Academic	2410
9	<a href="#">Xi'an Jiaotong University</a> Xi'an, China Academic	2393
10	<a href="#">South China University of Technology</a> Guangzhou, China Academic	2298

#	Organisations	Articles
11	<a href="#">Nanyang Technological University</a> Singapore, Singapore Academic	2183
12	<a href="#">Central South University</a> Changsha, China Academic	2173
13	<a href="#">Peking University</a> Beijing, China Academic	2116
14	<a href="#">University of Science and Technology of China</a> Hefei, China Academic	1988
15	<a href="#">Indian Institute of Technology Delhi</a> New Delhi, India Academic	1958
16	<a href="#">National University of Singapore</a> Singapore, Singapore Academic	1955
17	<a href="#">Council of Scientific and Industrial Research</a> New Delhi, India Academic	1933
18	<a href="#">Shandong University</a> Jinan, China Academic	1785
19	<a href="#">North China Electric Power University</a> Beijing, China Academic	1757
20	<a href="#">University of New South Wales</a> Sydney, Australia Academic	1756

Total organisations : 12320

## Journals

#	Journal	Articles
1	International Journal of Hydrogen Energy	9546
2	Journal of Power Sources	9502
3	Journal of Materials Chemistry A	7459
4	IOP Conference Series: Earth and Environmental Science	5088
5	Chemical Engineering Journal	4988
6	Applied Energy	4604
7	Energy Procedia	4405
8	Journal of the Electrochemical Society	4081
9	AIP Conference Proceedings	3939
10	Energy	3798
11	Energy and Buildings	3549
12	Renewable & Sustainable Energy Reviews	3479
13	Advanced Materials Research	3445
14	IOP Conference Series: Materials Science and Engineering	3431
15	Solar Energy	3348
16	Energy Conversion and Management	3213
17	Advanced Energy Materials	3136
18	Bioresource Technology	3126
19	Renewable Energy	2963
20	Applied Mechanics and Materials	2961

Total journals : 3753

## Conferences

#	Conference	Articles
1	2017 IEEE 44th Photovoltaic Specialist Conference (PVSC)	1095
2	2015 IEEE 42nd Photovoltaic Specialist Conference (PVSC). Proceedings	646
3	2018 IEEE 7th World Conference on Photovoltaic Energy Conversion (WCPEC) (A Joint Conference of 45th IEEE PVSC, 28th PVSEC & 34th EU PVSEC)	575
4	28th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC 2013). Proceedings	573
5	2013 IEEE 39th Photovoltaic Specialists Conference (PVSC)	571
6	2016 IEEE 43rd Photovoltaic Specialists Conference (PVSC)	553
7	2014 IEEE 40th Photovoltaic Specialists Conference (PVSC)	549
8	29th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC 2014)	511
9	2019 IEEE 46th Photovoltaic Specialists Conference (PVSC)	461
10	32nd European Photovoltaic Solar Energy Conference and Exhibition. Proceedings	360
11	31st European Photovoltaic Solar Energy Conference 2015 (EUPVSEC)	344
12	33rd European Photovoltaic Solar Energy Conference and Exhibition. Proceedings of the International Conference	302
13	IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium. Proceedings	219
14	EU PVSEC 2019. 36th European Photovoltaic Solar Energy Conference and Exhibition. Proceedings	201
15	2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)	170
16	IGARSS 2018 - 2018 IEEE International Geoscience and Remote Sensing Symposium. Proceedings	151
17	2015 IEEE International Conference on Signal Processing for Communications (ICC)	130
18	2018 IEEE International Symposium on Circuits and Systems (ISCAS)	125
19	2017 IEEE International Conference on Communications (ICC). Proceedings	102
20	GLOBECOM 2017 - 2017 IEEE Global Communications Conference	100

Total conferences : 8613

## Related controlled terms

#	Controlled terms	Articles
1	<a href="#">environmental factors</a>	4350
2	<a href="#">exergy</a>	2375
3	<a href="#">thermal insulation</a>	1070

Total terms : 3

## Related Subject classifications

#	Parent
1	<a href="#">A8000 - Cross-disciplinary physics and related areas of science and technology</a>

Total codes : 1

#	Siblings	Articles
1	<a href="#">A8100 - Materials science</a>	699646
2	<a href="#">A8200 - Physical chemistry</a>	521741
3	<a href="#">A8700 - Biophysics, medical physics, and biomedical engineering</a>	435870

Total codes : 3

#	Children	Articles
1	<a href="#">A8630 - Energy conversion</a>	157954
2	<a href="#">A8670 - Environmental science</a>	83213
3	<a href="#">A8620 - Energy utilisation</a>	68295
4	<a href="#">A8610 - Energy resources and fuels</a>	57043
5	<a href="#">A8675 - Environmental science technology</a>	46753
6	<a href="#">A8640 - Energy storage</a>	33903
7	<a href="#">A8605 - Energy and environmental policy, economics and legislation</a>	10691
8	<a href="#">A8660 - Requirement for energy: ecological aspects</a>	2262
9	<a href="#">A8690 - Other topics in energy research and environmental science</a>	380

Total codes : 9