

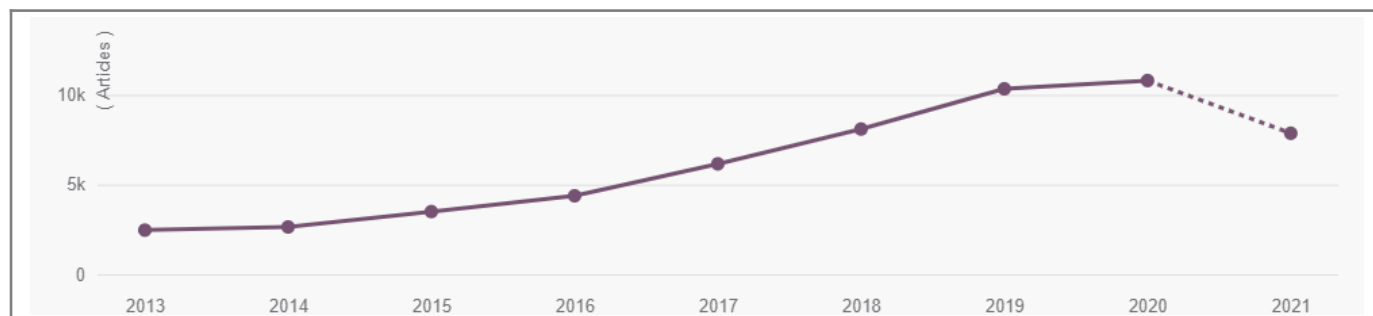
# sustainable development

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Report generated from year 2013 to 2021

<p><b>Articles published</b></p> <p>56210 articles published with this Controlled term between 2013 - 2021</p>
<p><b>Articles published % change</b></p> <p>Between 2013 - 2020 article output increased <b>338.42%</b></p>
<p><b>Times cited</b></p> <p>Articles published with this controlled term between 2013 - 2021 have been cited <b>187222</b> times, with an average of <b>3.33</b> citations per article</p>

## Controlled term over time



#	Year	Articles	% Change	Times cited	Avg times cited	Percentage of annual total
1	2013	2462	n/a	22699	9.22	0.35327%
2	2014	2640	7.23%	24224	9.18	0.37375%
3	2015	3498	32.50%	31803	9.09	0.47126%
4	2016	4376	25.10%	34293	7.84	0.55175%
5	2017	6154	40.63%	34034	5.53	0.71393%
6	2018	8094	31.52%	22886	2.83	0.90496%
7	2019	10333	27.66%	12869	1.25	1.00062%
8	2020	10794	4.46%	4001	0.37	1.10329%
9	2021	7859	n/a	413	0.05	1.18966%

### Co-occurring concepts

#	Controlled terms	Articles
1	organisational aspects	6680
2	environmental factors	5960
3	ecology	5403
4	government policies	5286
5	recycling	5084
6	environmental economics	4995
7	socio-economic effects	4884
8	decision making	4551
9	energy conservation	4142
10	innovation management	3972
11	renewable energy sources	3919
12	agriculture	3612
13	town and country planning	3459
14	air pollution control	3375
15	buildings (structures)	3221
16	construction industry	2934
17	energy consumption	2916
18	biofuel	2880
19	air pollution	2703
20	supply chain management	2653

Total terms : 4202

#	Subject classifications	Articles
1	<a href="#">E0000 - General topics in manufacturing and production engineering</a>	41672
2	<a href="#">E0200 - General support functions</a>	40862
3	<a href="#">E0230 - Environmental issues</a>	38565
4	<a href="#">E1000 - Manufacturing and production</a>	26640
5	<a href="#">E3000 - Industrial sectors</a>	23036
6	<a href="#">E1700 - Manufacturing resources and products</a>	13244
7	<a href="#">E0100 - Management and business</a>	12629
8	<a href="#">A8000 - Cross-disciplinary physics and related areas of science and technology</a>	11783
9	<a href="#">A8600 - Energy research and environmental science</a>	11388
10	<a href="#">E0260 - Social and political issues</a>	11220
11	<a href="#">E0220 - Economics</a>	11179
12	<a href="#">E1500 - Production technology</a>	10816
13	<a href="#">E3600 - Manufacturing industries</a>	10626
14	<a href="#">E0120 - Management issues</a>	9889
15	<a href="#">E1710 - Engineering materials</a>	9363
16	<a href="#">C7000 - Computer applications</a>	8166
17	<a href="#">B8000 - Power systems and applications</a>	8135
18	<a href="#">E1525 - Industrial processes</a>	7174
19	<a href="#">E2000 - Engineering mechanics</a>	7123
20	<a href="#">E2100 - General mechanics</a>	6580

Total codes : 1488

## Top organisations

#	Organisations	Articles
1	<a href="#">Universiti Teknologi Malaysia</a> Skudai, Malaysia academic	446
2	<a href="#">Tsinghua University</a> Beijing, China academic	384
3	<a href="#">Beijing Normal University</a> Beijing, China academic	345
4	<a href="#">North China Electric Power University</a> Beijing, China academic	335
5	<a href="#">Hong Kong Polytechnic University</a> Kowloon, Hong Kong academic	334
6	<a href="#">Technische Universiteit Delft</a> Delft, Netherlands academic	309
7	<a href="#">Politecnico di Milano</a> Milano, Italy academic	293
8	<a href="#">Universitas Indonesia</a> Depok, Indonesia academic	290
9	<a href="#">Chinese Academy of Sciences</a> Beijing, China academic	282
10	<a href="#">Indian Institute of Technology Delhi</a> New Delhi, India academic	276

#	Organisations	Articles
11	<a href="#">Universidade de Sao Paulo</a> Sao Paulo, Brazil academic	274
12	<a href="#">Institute of Geographic Sciences and Natural Resources Research Chinese Academy of Sciences</a> Beijing, China academic	269
13	<a href="#">University of Tehran</a> Tehran, Iran academic	261
14	<a href="#">University of Malaya</a> Kuala Lumpur, Malaysia academic	255
15	<a href="#">Shanghai Jiao Tong University</a> Shanghai, China academic	249
16	<a href="#">Tongji University</a> Shanghai, China academic	248
17	<a href="#">Universidade de Lisboa</a> Lisboa, Portugal academic	242
18	<a href="#">University of Nottingham</a> Nottingham, UK academic	231
19	<a href="#">Danmarks Tekniske Universitet</a> Lyngby, Denmark academic	227
20	<a href="#">Kungliga Tekniska Hogskolan</a> Stockholm, Sweden academic	225

Total organisations : 7837

## Journals

#	Journal	Articles
1	Sustainability	5350
2	Journal of Cleaner Production	4706
3	IOP Conference Series: Earth and Environmental Science	3093
4	E3S Web of Conferences	1760
5	IOP Conference Series: Materials Science and Engineering	1280
6	Renewable & Sustainable Energy Reviews	1142
7	Energies	607
8	Energy Policy	590
9	Resources, Conservation and Recycling	539
10	Water	523
11	MATEC Web of Conferences	488
12	Energy Procedia	458
13	Applied Energy	433
14	Applied Mechanics and Materials	430
15	Journal of Physics: Conference Series	429
16	Construction and Building Materials	409
17	Sustainable Cities and Society	382
18	Energy	372
19	Business Strategy and the Environment	370

#	Journal	Articles
20	Procedia Engineering	369

Total journals : 2436

## Conferences

#	Conference	Articles
1	New Metropolitan Perspectives. Knowledge Dynamics and Innovation-driven Policies Towards Urban and Regional Transition. Smart Innovation, Systems and Technologies (SIST 178)	33
2	ICSI 2014 - Creating Infrastructure for a Sustainable World. Proceedings of the 2014 International Conference on Sustainable Infrastructure	29
3	2021 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)	25
4	New Metropolitan Perspectives. Local Knowledge and Innovation Dynamics Towards Territory Attractiveness Through the Implementation of Horizon/E2020/Agenda2030. Smart Innovation, Systems and Technologies (SIST 101)	25
5	Scientific and Technical Revolution: Yesterday, Today and Tomorrow. Lecture Notes in Networks and Systems (LNNS 129)	25
6	2017 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)	23
7	Proceedings of the 2012 International Conference on Sustainable Design and Construction. ICSDEC 2012	23
8	Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017). Lecture Notes in Civil Engineering (LNCE 6)	22
9	Construction Research Congress 2020 - Infrastructure Systems and Sustainability. Selected Papers from the Construction Research Congress 2020	20
10	Data Analytics: Paving the Way to Sustainable Urban Mobility. Proceedings of 4th Conference on Sustainable Urban Mobility (CSUM2018). Advances in Intelligent Systems and Computing (AISC 879)	20
11	Innovation in Urban and Regional Planning. Proceedings of the 11th INPUT Conference. Lecture Notes in Civil Engineering (LNCE 146)	20
12	Sustainable Development Through Engineering Innovations. Select Proceedings of SDEI 2020. Lecture Notes in Civil Engineering (LNCE 113)	20
13	2019 IEEE Global Humanitarian Technology Conference (GHTC)	19
14	Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017). Lecture Notes in Civil Engineering (LNCE 7)	19
15	2021 Third International Sustainability and Resilience Conference: Climate Change	18
16	International Conference On Sustainable Infrastructure 2019. Leading Resilient Communities through the 21st Century. Proceedings	18
17	Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018). Volume VIII: Ergonomics and Human Factors in Manufacturing, Agriculture, Building and Construction, Sustainable Development and Mining. Advances in Intelligent Systems and Computing (AISC 825)	17
18	2018 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)	16
19	2020 Second International Sustainability and Resilience Conference: Technology and Innovation in Building Designs	16
20	BIM Application and Offsite Construction. Proceedings of the 2016 International Conference on Construction and Real-Estate Management (ICCREM)	16

Total conferences : 3538

## Related controlled terms

#	Broader terms	Articles
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Total terms : 0

#	Narrower terms	Articles
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Total terms : 0

#	Related terms	Articles
1	<a href="#">energy conservation</a>	59254
2	<a href="#">ecology</a>	39031
3	<a href="#">government policies</a>	25691
4	<a href="#">renewable materials</a>	24424
5	<a href="#">biodegradable materials</a>	23300
6	<a href="#">economics</a>	13233
7	<a href="#">ecocomposites</a>	6698
8	<a href="#">environmental management</a>	6463
9	<a href="#">smart cities</a>	6142
10	<a href="#">pollution control</a>	2180
11	<a href="#">natural resources</a>	1994
12	<a href="#">green computing</a>	1645
13	<a href="#">energy resources</a>	1470
14	<a href="#">organic farming</a>	736
15	<a href="#">food security</a>	461

Total terms : 15

### Related Subject classifications

#	Subject classifications
1	<a href="#">A8610 - Energy resources and fuels</a>
2	<a href="#">A8660 - Requirement for energy: ecological aspects</a>
3	<a href="#">A8690 - Other topics in energy research and environmental science</a>
4	<a href="#">B0170Q - Environmental factors</a>
5	<a href="#">B8210 - Energy resources</a>
6	<a href="#">B8215 - Energy conservation</a>
7	<a href="#">C1290B - Systems theory applications in natural resources and ecology</a>
8	<a href="#">E0230 - Environmental issues</a>
9	<a href="#">E1540 - Systems theory applications</a>

Total codes : 9