

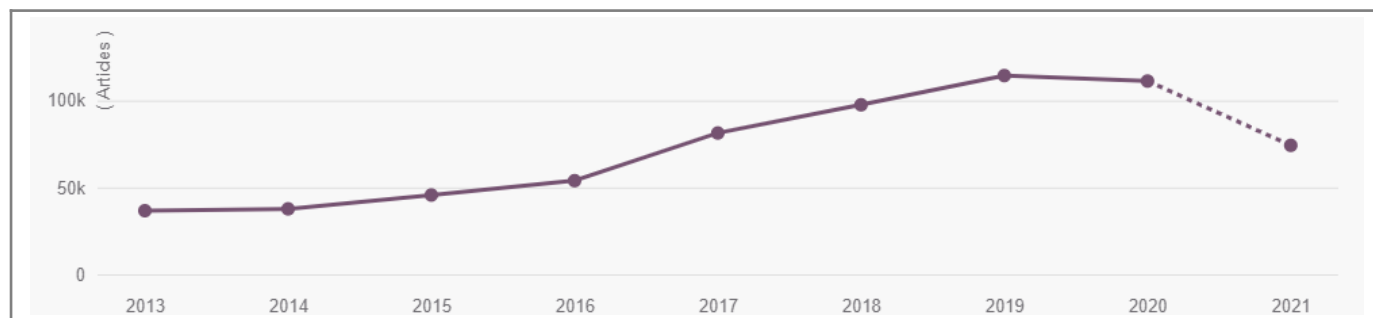
# E1700 - Manufacturing resources and products

[view online](#)

Report generated from year 2013 to 2021

|   |
|---|
| <p><b>Articles published</b></p> <p>652541 articles published with this Subject classification between 2013 - 2021</p>  |
| <p><b>Articles published % change</b></p> <p>Between 2013 - 2020 article output increased 203.65%</p>   |
| <p><b>Times cited</b></p> <p>Articles published with this Subject classification between 2013 - 2021 have been cited 1663266 times, with an average of 2.55 citations per article</p> |

## Subject classification over time



| # | Year | Articles | % Change | Times cited | Avg times cited |
|---|------|----------|----------|-------------|-----------------|
| 1 | 2013 | 36625    | n/a      | 209496      | 5.72            |
| 2 | 2014 | 37690    | 2.91%    | 210444      | 5.58            |
| 3 | 2015 | 45639    | 21.09%   | 265278      | 5.81            |
| 4 | 2016 | 53905    | 18.11%   | 290627      | 5.39            |
| 5 | 2017 | 81326    | 50.87%   | 309779      | 3.81            |
| 6 | 2018 | 97553    | 19.95%   | 214320      | 2.20            |
| 7 | 2019 | 114360   | 17.23%   | 124821      | 1.09            |
| 8 | 2020 | 111210   | -2.75%   | 35074       | 0.32            |
| 9 | 2021 | 74233    | n/a      | 3427        | 0.05            |

### Co-occurring concepts

| #  | Controlled terms             | Articles |
|----|------------------------------|----------|
| 1  | structural engineering       | 64887    |
| 2  | finite element analysis      | 63979    |
| 3  | organic compounds            | 60651    |
| 4  | steel                        | 54121    |
| 5  | scanning electron microscopy | 45212    |
| 6  | concrete                     | 44161    |
| 7  | microorganisms               | 40941    |
| 8  | recycling                    | 39117    |
| 9  | design engineering           | 38417    |
| 10 | compressive strength         | 37938    |
| 11 | tensile strength             | 35301    |
| 12 | food products                | 32965    |
| 13 | polymers                     | 32861    |
| 14 | adsorption                   | 31436    |
| 15 | cements (building materials) | 31404    |
| 16 | biotechnology                | 30711    |
| 17 | cracks                       | 29513    |
| 18 | soil                         | 29383    |
| 19 | biofuel                      | 28901    |
| 20 | pH                           | 28886    |

Total terms : 7369

| #  | Subject classifications  | Articles |
|----|--|----------|
| 1  | E1000 - Manufacturing and production   | 652541   |
| 2  | E1710 - Engineering materials  | 579201   |
| 3  | E3000 - Industrial sectors   | 381269   |
| 4  | E1500 - Production technology  | 366367   |
| 5  | E2000 - Engineering mechanics  | 340674   |
| 6  | E0000 - General topics in manufacturing and production engineering             | 333466   |
| 7  | E2100 - General mechanics  | 326963   |
| 8  | E0200 - General support functions  | 317560   |
| 9  | E3600 - Manufacturing industries   | 239554   |
| 10 | E1525 - Industrial processes   | 233345   |
| 11 | E2180 - Specific mechanical properties (mechanical engineering)                | 227266   |
| 12 | A8000 - Cross-disciplinary physics and related areas of science and technology | 168118   |
| 13 | E0210 - Engineering mathematics and numerical techniques                       | 155509   |
| 14 | E1780 - Products and commodities   | 154775   |
| 15 | E0230 - Environmental issues   | 150504   |
| 16 | E2180B - Plasticity (mechanical engineering)                                   | 147682   |
| 17 | E1600 - Measurement and testing  | 144313   |
| 18 | E1520 - Manufacturing processes  | 140007   |
| 19 | E2110 - Mechanical structures  | 127059   |
| 20 | E3030 - Construction industry  | 110802   |

Total codes : 2541

## Top organisations

| #  | Organisations  | Articles |
|----|--|----------|
| 1  | Harbin Institute of Technology<br>Harbin, China<br>academic                | 5790     |
| 2  | Tongji University<br>Shanghai, China<br>academic                           | 5413     |
| 3  | Tsinghua University<br>Beijing, China<br>academic                          | 5014     |
| 4  | Central South University<br>Changsha, China<br>academic                    | 4850     |
| 5  | China University of Mining and Technology<br>Xuzhou, China<br>academic     | 4566     |
| 6  | Southeast University<br>Nanjing, China<br>academic                         | 4538     |
| 7  | Zhejiang University<br>Hangzhou, China<br>academic                         | 4442     |
| 8  | China University of Petroleum Beijing<br>Changping-qu, China<br>academic   | 4248     |
| 9  | Islamic Azad University<br>Tehran, Iran<br>academic                        | 4105     |
| 10 | University of Science and Technology Beijing<br>Beijing, China<br>academic | 4076     |

| #  | Organisations   | Articles |
|----|---|----------|
| 11 | <a href="#">Dalian University of Technology</a><br>Dalian, China<br>academic                  | 4037     |
| 12 | <a href="#">Shanghai Jiao Tong University</a><br>Shanghai, China<br>academic                  | 4027     |
| 13 | <a href="#">Indian Institute of Technology Delhi</a><br>New Delhi, India<br>academic          | 3848     |
| 14 | <a href="#">Tianjin University</a><br>Tianjin, China<br>academic                              | 3838     |
| 15 | <a href="#">South China University of Technology</a><br>Guangzhou, China<br>academic          | 3659     |
| 16 | <a href="#">Northeastern University</a><br>Shenyang, China<br>academic                        | 3626     |
| 17 | <a href="#">Shandong University</a><br>Jinan, China<br>academic                               | 3615     |
| 18 | <a href="#">Chongqing University</a><br>Chongqing, China<br>academic                          | 3512     |
| 19 | <a href="#">Council of Scientific and Industrial Research</a><br>New Delhi, India<br>academic | 3201     |
| 20 | <a href="#">Xi'an Jiaotong University</a><br>Xi'an, China<br>academic                         | 3107     |

Total organisations : 14931

## Journals

| #  | Journal  | Articles |
|----|--|----------|
| 1  | IOP Conference Series: Materials Science and Engineering   | 23577    |
| 2  | IOP Conference Series: Earth and Environmental Science     | 17002    |
| 3  | Construction and Building Materials                        | 14904    |
| 4  | Applied Mechanics and Materials                            | 10235    |
| 5  | Advanced Materials Research                                | 9817     |
| 6  | AIP Conference Proceedings                                 | 9235     |
| 7  | Journal of Physics: Conference Series                      | 8688     |
| 8  | Journal of Cleaner Production                              | 7646     |
| 9  | International Journal of Advanced Manufacturing Technology | 7469     |
| 10 | Chemical Engineering Journal                               | 7242     |
| 11 | MATEC Web of Conferences                                   | 6842     |
| 12 | Key Engineering Materials                                  | 6475     |
| 13 | Materials  | 6132     |
| 14 | E3S Web of Conferences                                     | 5710     |
| 15 | Bioresource Technology                                     | 5195     |
| 16 | Materials Science Forum                                    | 5070     |
| 17 | Fuel   | 5017     |
| 18 | Composite Structures                                       | 4713     |
| 19 | Procedia Engineering                                       | 4505     |
| 20 | Industrial Crops and Products                              | 4378     |

Total journals : 4104

## Conferences

| #  | Conference  | Articles |
|----|---|----------|
| 1  | Proceedings of China-Europe Conference on Geotechnical Engineering. Springer Series in Geomechanics and Geoengineering (SSGG)   | 244      |
| 2  | AIAA Scitech 2020 Forum   | 166      |
| 3  | CONCREEP 10 - 10th International Conference on Mechanics and Physics of Creep, Shrinkage and Durability of Concrete and Concrete Structures. Proceedings  | 155      |
| 4  | 54th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference   | 154      |
| 5  | 2019 AIAA Science and Technology Forum and Exposition (SciTech)   | 151      |
| 6  | EASEC16. Proceedings of The 16th East Asian-Pacific Conference on Structural Engineering and Construction, 2019. Lecture Notes in Civil Engineering (LNCE 101)  | 139      |
| 7  | 2018 AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference  | 135      |
| 8  | Proceedings of the 6th International Conference on Industrial Engineering (ICIE 2020). Lecture Notes in Mechanical Engineering (LNME)   | 124      |
| 9  | Proceedings of the 4th International Conference on Industrial Engineering. ICIE 2018. Lecture Notes in Mechanical Engineering   | 117      |
| 10 | IFCEE 2015. International Foundations Congress and Equipment Expo 2015. Proceedings   | 111      |
| 11 | Poromechanics VI. Proceedings of the Sixth BIOT Conference on Poromechanics   | 108      |
| 12 | 2021 7th International Conference on Hydraulic and Civil Engineering & Smart Water Conservancy and Intelligent Disaster Reduction Forum (ICHCE & SWIDR)   | 107      |
| 13 | AIAA Propulsion and Energy 2019 Forum   | 104      |
| 14 | Structures Congress 2015. Proceedings   | 100      |
| 15 | CIGOS 2019, Innovation for Sustainable Infrastructure. Proceedings of the 5th International Conference on Geotechnics, Civil Engineering Works and Structures. Lecture Notes in Civil Engineering (LNCE 54) | 98       |
| 16 | Proceedings of the International Field Exploration and Development Conference 2019. Springer Series in Geomechanics and Geoengineering (SSGG)   | 86       |
| 17 | Airfield and Highway Pavements 2019. Innovation and Sustainability in Highway and Airfield Pavement Technology  | 85       |
| 18 | Geotechnics for Sustainable Infrastructure Development. Lecture Notes in Civil Engineering (LNCE 62)  | 83       |
| 19 | ACMSM25. Proceedings of the 25th Australasian Conference on Mechanics of Structures and Materials. Lecture Notes in Civil Engineering (LNCE 37)   | 81       |
| 20 | Proceedings of the 5th International Conference on Industrial Engineering (ICIE 2019). Volume II. Lecture Notes in Mechanical Engineering (LNME)  | 81       |

Total conferences : 7020

## Related controlled terms


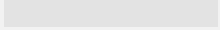

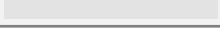
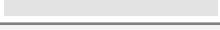
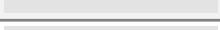

| # | Controlled terms                  | Articles |
|---|-----------------------------------|----------|
| 1 | <a href="#">coal</a>              | 12250    |
| 2 | <a href="#">raw materials</a>     | 9052     |
| 3 | <a href="#">fuel</a>              | 1802     |
| 4 | <a href="#">reservoirs</a>        | 864      |
| 5 | <a href="#">natural resources</a> | 698      |

Total terms : 5

## Related Subject classifications

| # | Parent   |
|---|--|
| 1 | <a href="#">E1000 - Manufacturing and production</a> |

Total codes : 1

| # | Siblings                                    | Articles  |
|---|---|---|
| 1 | E1400 - Design                              | 0  |
| 2 | E1020 - Maintenance and reliability         | 0  |
| 3 | E1800 - Materials handling and distribution | 0  |
| 4 | E1600 - Measurement and testing             | 0  |
| 5 | E1010 - Production management               | 0  |
| 6 | E1500 - Production technology               | 0  |
| 7 | E1030 - Research and development            | 0  |

Total codes : 7

| # | Children                         | Articles   |
|---|----------------------------------|--|
| 1 | E1710 - Engineering materials    | 579201  |
| 2 | E1780 - Products and commodities | 154775  |

Total codes : 2