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**Table S1:** Ranked list of the total number of citations by country

|  |  |  |  |
| --- | --- | --- | --- |
| **Rank** | **Country** | **Total Citations** | **Average Citations** |
| 1 | United States | 3211 | 30.29 |
| 2 | Germany | 1537 | 53.00 |
| 3 | United Kingdom | 1410 | 34.39 |
| 4 | India | 1319 | 23.98 |
| 5 | China | 1259 | 29.28 |
| 6 | Spain | 719 | 23.19 |
| 7 | Netherlands | 632 | 33.26 |
| 8 | Australia | 448 | 20.36 |
| 9 | Iran | 386 | 27.57 |
| 10 | Canada | 350 | 25.00 |
| 11 | Italy | 309 | 20.60 |
| 12 | Japan | 287 | 23.92 |
| 13 | Greece | 266 | 44.33 |
| 14 | South Africa | 261 | 26.10 |
| 15 | Hungary | 199 | 66.33 |
| 16 | Belgium | 186 | 37.20 |
| 17 | Switzerland | 169 | 28.17 |
| 18 | New Zealand | 156 | 31.20 |
| 19 | Malaysia | 155 | 25.83 |
| 20 | Tunisia | 139 | 69.50 |
| 21 | Turkey | 139 | 19.86 |
| 22 | Portugal | 138 | 69.00 |
| 23 | Taiwan | 132 | 22.00 |
| 24 | Kenya | 129 | 32.25 |
| 25 | Brazil | 127 | 18.14 |
| 26 | Pakistan | 121 | 30.25 |
| 27 | France | 120 | 10.91 |
| 28 | Ireland | 119 | 119.00 |
| 29 | South Korea | 117 | 10.64 |
| 30 | Indonesia | 115 | 12.78 |
| 31 | Nigeria | 94 | 10.44 |
| 32 | Jordan | 92 | 18.40 |
| 33 | Egypt | 88 | 29.33 |
| 34 | Ghana | 88 | 88.00 |
| 35 | Saudi Arabia | 72 | 36.00 |
| 36 | Sweden | 70 | 8.75 |
| 37 | Tanzania | 70 | 17.50 |
| 38 | Thailand | 62 | 20.67 |
| 39 | Cyprus | 61 | 61.00 |
| 40 | Zimbabwe | 52 | 52.00 |
| 41 | Malawi | 48 | 48.00 |
| 42 | Poland | 46 | 7.67 |
| 43 | Bangladesh | 44 | 11.00 |
| 44 | Senegal | 44 | 44.00 |
| 45 | Singapore | 44 | 22.00 |
| 46 | Colombia | 43 | 21.50 |
| 47 | Lebanon | 35 | 17.50 |
| 48 | Ethiopia | 29 | 9.67 |
| 49 | Mexico | 27 | 6.75 |
| 50 | Norway | 27 | 9.00 |
| 51 | Uganda | 24 | 24.00 |
| 52 | Czechia | 23 | 11.50 |
| 53 | Morocco | 23 | 23.00 |
| 54 | Denmark | 22 | 22.00 |
| 55 | Sudan | 22 | 22.00 |
| 56 | Mauritius | 17 | 17.00 |
| 57 | Israel | 13 | 13.00 |
| 58 | Sri Lanka | 13 | 6.50 |
| 59 | Argentina | 11 | 11.00 |
| 60 | Austria | 11 | 2.75 |
| 61 | Russia | 11 | 3.67 |
| 62 | Uruguay | 11 | 11.00 |
| 63 | United Arab Emirates | 10 | 10.00 |
| 64 | Algeria | 9 | 9.00 |
| 65 | Finland | 8 | 8.00 |
| 66 | Armenia | 5 | 5.00 |
| 67 | Cuba | 5 | 5.00 |
| 68 | Rwanda | 5 | 5.00 |
| 69 | Croatia | 4 | 4.00 |
| 70 | Iceland | 3 | 3.00 |
| 71 | Philippines | 2 | 2.00 |

**Table S2:** Most-relevant affiliations for AT publications

|  |  |  |
| --- | --- | --- |
| **Rank** | **Affiliation** | **Articles** |
| 1 | Gadjah Mada University | 44 |
| 2 | Bandung Institute of Technology | 30 |
| 3 | Karlsruhe Institute of Technology | 29 |
| 4 | Michigan Technological University | 28 |
| 5 | University of Naples Federico II | 28 |
| 6 | Cranfield University | 27 |
| 7 | Seoul National University | 26 |
| 8 | University of Florida | 26 |
| 9 | University of Cape Town | 25 |
| 10 | University of Technology Sydney | 25 |
| 11 | London School of Hygiene & Tropical Medicine | 24 |
| 12 | Padjadjaran University | 24 |
| 13 | Tsinghua University | 22 |
| 14 | University of North Sumatra | 22 |
| 15 | University of Sao Paulo | 21 |
| 16 | Harbin Institute of Technology | 20 |
| 17 | Pennsylvania State University | 20 |
| 18 | University of the Witwatersrand | 20 |
| 19 | University of Washington | 20 |
| 20 | University of Wisconsin–Madison | 20 |

**Table S3:** Occurrences of the most-frequent keywords

|  |  |
| --- | --- |
| **Word** | **Occurrences** |
| technology | 822 |
| appropriate | 605 |
| development | 216 |
| technologies | 213 |
| developing | 164 |
| study | 161 |
| water | 153 |
| health | 146 |
| case | 135 |
| systems | 129 |
| countries | 128 |
| analysis | 125 |
| system | 124 |
| energy | 123 |
| management | 117 |
| rural | 113 |
| sustainable | 106 |
| treatment | 101 |
| production | 99 |
| design | 87 |
| application | 86 |
| evaluation | 84 |
| approach | 83 |
| waste | 81 |
| model | 75 |
| care | 74 |
| review | 74 |
| assessment | 73 |
| wastewater | 70 |
| environmental | 65 |
| community | 64 |
| selection | 64 |
| Africa | 63 |
| India | 63 |
| transfer | 62 |
| education | 58 |
| performance | 58 |
| process | 54 |
| challenges | 52 |
| small | 52 |
| learning | 50 |
| based | 49 |
| industry | 48 |
| role | 47 |
| agricultural | 46 |
| control | 46 |
| solar | 45 |

**Table S4:** Twenty most-relevant sources of AT publications

|  |  |  |
| --- | --- | --- |
| **Rank** | **Journal name** | **Articles** |
| 1 | Water Science & Technology | 45 |
| 2 | IOP Conference Series Earth and Environmental Science | 34 |
| 3 | IFAC Proceedings Volumes | 30 |
| 4 | Renewable Energy | 25 |
| 5 | Journal of Physics Conference Series | 21 |
| 6 | The British Medical Journal | 21 |
| 7 | Iop Conference Series Materials Science and Engineering | 20 |
| 8 | Renewable and Sustainable Energy Reviews | 20 |
| 9 | Technological Forecasting and Social Change | 20 |
| 10 | Journal of Cleaner Production | 19 |
| 11 | Desalination | 17 |
| 12 | Sustainability | 17 |
| 13 | World Development | 17 |
| 14 | Technology in Society | 16 |
| 15 | Applied Mechanics And Materials | 14 |
| 16 | Jurnal Pengabdian Kepada Masyarakat | 13 |
| 17 | Procedia Engineering | 13 |
| 18 | Energy Policy | 12 |
| 19 | Tropical Doctor | 12 |
| 20 | African Journal of Science Technology Innovation and Development | 11 |

**Table S5:** Fifty most-cited AT publications (1975–2020)

|  |  |  |  |
| --- | --- | --- | --- |
| **Rank** | **Paper** | **Total Citations** | **TC per Year** |
| 1 | Gupta VK, 2012, RSC Adv. | 909 | 101.00 |
| 2 | Alldredge AL, 1988, Prog. Oceanog. | 870 | 26.36 |
| 3 | Franzblau SG, 1998, J. Clin. Microbiol. | 588 | 25.57 |
| 4 | De Laet M, 2000, Soc. Stud. Sci. | 481 | 22.90 |
| 5 | Thieme H, 1997, Nature | 469 | 19.54 |
| 6 | Khan FI, 2004, J. Env. Manag. | 462 | 27.18 |
| 7 | Mason HS, 1996, Proc. Nat. Acad. Sci. USA | 457 | 18.28 |
| 8 | Wilkie AC, 2000, Biomass Bioenergy | 356 | 16.95 |
| 9 | Sutherst RW, 2004, Clin. Microbiol. Rev. | 355 | 20.88 |
| 10 | Fiksel J, 2003, Env. Sci. Tech. | 346 | 19.22 |
| 11 | Ivers-tiffée E, 2001, J. Euro. Ceram. Soc. | 332 | 16.60 |
| 12 | Brabham DC, 2009, Plann. Theory | 324 | 27.00 |
| 13 | Russell JR, 1997, Theo. Appl. Genet. | 319 | 13.29 |
| 14 | Weber A, 2004, J. Power Sources | 291 | 17.12 |
| 15 | Sun Q, 2015, Renew. Sust. Energy Rev. | 274 | 45.67 |
| 16 | Watson I, 1999, Know.-based Sys. | 244 | 11.09 |
| 17 | Giller KE, 1995, Plant Soil | 238 | 9.15 |
| 18 | Basu S, 1998, Quart. J. Econ. | 233 | 10.13 |
| 19 | Vollertsen F, 2004, J. Mat. Proc. Tech. | 233 | 13.71 |
| 20 | Shekdar AV, 2009, Waste Manag. | 231 | 19.25 |
| 21 | Angenendt P, 2005, Drug Disc. Today | 227 | 14.19 |
| 22 | Malik M, 2001, Drug Safety | 224 | 11.20 |
| 23 | Ferreira HL, 2013, Energy | 218 | 27.25 |
| 24 | Wittbrodt B, 2013, Mechatronics | 217 | 27.13 |
| 25 | Gosz JR, 1993, Ecol. Appl. | 201 | 7.18 |
| 26 | Sinha V, 2010, J. Polym. Env. | 200 | 18.18 |
| 27 | Spigarelli BP, 2013, J. CO2 Util. | 199 | 24.88 |
| 28 | Farkas J, 2011, Trends Food Sci. Tech. | 196 | 19.60 |
| 29 | Lawn JE, 2008, Lancet | 193 | 14.85 |
| 30 | Conole G, 2008, Comp. Edu. | 187 | 14.38 |
| 31 | Vollertsen F, 2006, Int. J. Mach. Tools Manuf. | 184 | 12.27 |
| 32 | Chen A, 2015, Biosens. Bioelectron. | 174 | 29.00 |
| 33 | Smith A, 2014, J. Clean. Prod. | 170 | 24.29 |
| 34 | Brix H, 1994, Water Sci. Tech. | 167 | 6.19 |
| 35 | Madurwar Mv, 2013, Constr. Build. Mat. | 166 | 20.75 |
| 36 | Aleksic S, 2009, J. Opt. Comm. Network. | 163 | 13.58 |
| 37 | Klein Rg, 2004, Proc. Nat. Acad. Sci. USA | 162 | 9.53 |
| 38 | Obernberger I, 1998, Biomass Bioenergy | 154 | 6.70 |
| 39 | Zhang Q, 2016, Env. Int. | 153 | 30.60 |
| 40 | Castro-lacouture D, 2009, Build. Env. | 150 | 12.50 |
| 41 | Medina M, 2000, Res. Cons. Recycl. | 150 | 7.14 |
| 42 | Mehta CM, 2015, Crit. Rev. Env. Sci. Tech. | 149 | 24.83 |
| 43 | Giller KE, 2006, Ag. Systems | 147 | 9.80 |
| 44 | Diwan I, 1991, J. Int. Econ. | 144 | 4.80 |
| 45 | Khan RH, 2013, Comp. Net. | 143 | 17.88 |
| 46 | Pearce JM, 2010, J. Sust. Dev. | 143 | 13.00 |
| 47 | Barry J, 2008, Theriogen. | 138 | 10.62 |
| 48 | Beccari M, 1996, Water Res. | 137 | 5.48 |
| 49 | Dissanayake CB, 1991, Int. J. Env. Stud. | 137 | 4.57 |
| 50 | Joseph K, 1999, Rev. Brasil. Eng. Ag. Amb. | 137 | 6.22 |