

Robbie Andrew

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

20,402
citations

44444

50
h-index

62345

84
g-index

120
all docs

120
docs citations

120
times ranked

26079
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Reduction of Global Life Expectancy Driven by Trade-Related Transboundary Air Pollution. <i>Environmental Science and Technology Letters</i> , 2022, 9, 212-218. | 3.9 | 13 |
| 2 | Global fossil carbon emissions rebound near pre-COVID-19 levels. <i>Environmental Research Letters</i> , 2022, 17, 031001. | 2.2 | 42 |
| 3 | Evaluation and drivers of global low-carbon economies based on satellite data. <i>Humanities and Social Sciences Communications</i> , 2022, 9, . | 1.3 | 4 |
| 4 | Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005. | 3.7 | 663 |
| 5 | Land-use emissions embodied in international trade. <i>Science</i> , 2022, 376, 597-603. | 6.0 | 61 |
| 6 | CO ₂ emissions from energy systems and industrial processes: Inventories from data- and proxy-driven approaches. , 2022, , 31-57. | | 1 |
| 7 | Key points for green management of water-energy-food in the Belt and Road Initiative: Resource utilization efficiency, final demand behaviors and trade inequalities. <i>Journal of Cleaner Production</i> , 2022, 362, 132386. | 4.6 | 5 |
| 8 | Global patterns of daily CO ₂ emissions reductions in the first year of COVID-19. <i>Nature Geoscience</i> , 2022, 15, 615-620. | 5.4 | 46 |
| 9 | Gridded fossil CO ₂ emissions and related O ₂ combustion consistent with national inventories 1959â€“2018. <i>Scientific Data</i> , 2021, 8, 2. | 2.4 | 56 |
| 10 | A future perspective of historical contributions to climate change. <i>Climatic Change</i> , 2021, 164, 1. | 1.7 | 6 |
| 11 | Influence of Test Cycles on Energy Consumption Test of Electric Vehicles. <i>E3S Web of Conferences</i> , 2021, 241, 02004. | 0.2 | 0 |
| 12 | Tree-ring $\delta^{14}C$ time series from 1948 to 2018 at a regional background site, China: Influences of atmospheric nuclear weapons tests and fossil fuel emissions. <i>Atmospheric Environment</i> , 2021, 246, 118156. | 1.9 | 5 |
| 13 | Fossil CO ₂ emissions in the post-COVID-19 era. <i>Nature Climate Change</i> , 2021, 11, 197-199. | 8.1 | 171 |
| 14 | Global CO ₂ uptake by cement from 1930 to 2019. <i>Earth System Science Data</i> , 2021, 13, 1791-1805. | 3.7 | 35 |
| 15 | The consolidated European synthesis of CO ₂ emissions and removals for the European Union and United Kingdom: 1990â€“2018. <i>Earth System Science Data</i> , 2021, 13, 2363-2406. | 3.7 | 23 |
| 16 | A review of trends and drivers of greenhouse gas emissions by sector from 1990 to 2018. <i>Environmental Research Letters</i> , 2021, 16, 073005. | 2.2 | 421 |
| 17 | Multi-region input-output analysis of embodied emissions and intensities: Spatial aggregation by linking regional and global datasets. <i>Journal of Cleaner Production</i> , 2021, 313, 127894. | 4.6 | 37 |
| 18 | The contribution of insects to global forest deadwood decomposition. <i>Nature</i> , 2021, 597, 77-81. | 13.7 | 123 |

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|----|--|-----|-----------|
| 19 | Planetary Boundaries for Forests and Their National Exceedance. <i>Environmental Science & Technology</i> , 2021, 55, 15423-15434. | 4.6 | 7 |
| 20 | Towards near real-time, monthly fossil CO ₂ emissions estimates for the European Union with current-year projections. <i>Atmospheric Pollution Research</i> , 2021, 12, 101229. | 1.8 | 8 |
| 21 | A comprehensive and synthetic dataset for global, regional, and national greenhouse gas emissions by sector 1970–2018 with an extension to 2019. <i>Earth System Science Data</i> , 2021, 13, 5213-5252. | 3.7 | 68 |
| 22 | Carbon dioxide emissions continue to grow amidst slowly emerging climate policies. <i>Nature Climate Change</i> , 2020, 10, 3-6. | 8.1 | 324 |
| 23 | Temporary reduction in daily global CO ₂ emissions during the COVID-19 forced confinement. <i>Nature Climate Change</i> , 2020, 10, 647-653. | 8.1 | 1,408 |
| 24 | Morphology-Based Kinetic Study of the Formation of Carbon Dioxide Hydrates with Promoters. <i>Energy & Fuels</i> , 2020, 34, 7307-7315. | 2.5 | 15 |
| 25 | A comparison of estimates of global carbon dioxide emissions from fossil carbon sources. <i>Earth System Science Data</i> , 2020, 12, 1437-1465. | 3.7 | 52 |
| 26 | Timely estimates of India's annual and monthly fossil CO ₂ emissions. <i>Earth System Science Data</i> , 2020, 12, 2411-2421. | 3.7 | 27 |
| 27 | Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340. | 3.7 | 1,477 |
| 28 | European anthropogenic AFOLU greenhouse gas emissions: a review and benchmark data. <i>Earth System Science Data</i> , 2020, 12, 961-1001. | 3.7 | 31 |
| 29 | Drivers of declining CO ₂ emissions in 18 developed economies. <i>Nature Climate Change</i> , 2019, 9, 213-217. | 8.1 | 307 |
| 30 | Persistent fossil fuel growth threatens the Paris Agreement and planetary health. <i>Environmental Research Letters</i> , 2019, 14, 121001. | 2.2 | 133 |
| 31 | Global CO ₂ emissions from cement production, 1928–2018. <i>Earth System Science Data</i> , 2019, 11, 1675-1710. | 3.7 | 327 |
| 32 | Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838. | 3.7 | 1,159 |
| 33 | Global energy growth is outpacing decarbonization. <i>Environmental Research Letters</i> , 2018, 13, 120401. | 2.2 | 188 |
| 34 | Trends of the EU's territorial and consumption-based emissions from 1990 to 2016. <i>Climatic Change</i> , 2018, 151, 131-142. | 1.7 | 30 |
| 35 | A successful prediction of the record CO ₂ rise associated with the 2015/2016 El Niño. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170301. | 1.8 | 22 |
| 36 | Structural Changes in Provincial Emission Transfers within China. <i>Environmental Science & Technology</i> , 2018, 52, 12958-12967. | 4.6 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | More than half of China's CO ₂ emissions are from micro, small and medium-sized enterprises. <i>Applied Energy</i> , 2018, 230, 712-725. | 5.1 | 59 |
| 38 | Global CO ₂ emissions from cement production. <i>Earth System Science Data</i> , 2018, 10, 195-217. | 3.7 | 762 |
| 39 | Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194. | 3.7 | 1,167 |
| 40 | Global CO ₂ emissions from cement production, 1928-2017. <i>Earth System Science Data</i> , 2018, 10, 2213-2239. | 3.7 | 138 |
| 41 | Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018, 10, 405-448. | 3.7 | 801 |
| 42 | Key indicators to track current progress and future ambition of the Paris Agreement. <i>Nature Climate Change</i> , 2017, 7, 118-122. | 8.1 | 298 |
| 43 | Spatial spillover effects in determining China's regional CO ₂ emissions growth: 2007-2010. <i>Energy Economics</i> , 2017, 63, 161-173. | 5.6 | 98 |
| 44 | Agricultural land displacement and undernourishment. <i>Journal of Cleaner Production</i> , 2017, 161, 619-628. | 4.6 | 33 |
| 45 | Provincial transfers of enabled carbon emissions in China: A supply-side perspective. <i>Energy Policy</i> , 2017, 107, 688-697. | 4.2 | 50 |
| 46 | Towards real-time verification of CO ₂ emissions. <i>Nature Climate Change</i> , 2017, 7, 848-850. | 8.1 | 168 |
| 47 | Warning signs for stabilizing global CO ₂ emissions. <i>Environmental Research Letters</i> , 2017, 12, 110202. | 2.2 | 158 |
| 48 | A comparison of satellite observations with the XCO ₂ surface obtained by fusing TCCON measurements and GEOS-Chem model outputs. <i>Science of the Total Environment</i> , 2017, 601-602, 1575-1590. | 3.9 | 14 |
| 49 | Perspective has a strong effect on the calculation of historical contributions to global warming. <i>Environmental Research Letters</i> , 2017, 12, 024022. | 2.2 | 57 |
| 50 | Spatiotemporal patterns of the fossil-fuel CO ₂ signal in central Europe: results from a high-resolution atmospheric transport model. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14145-14169. | 1.9 | 20 |
| 51 | Emissions embodied in global trade have plateaued due to structural changes in China. <i>Earth's Future</i> , 2017, 5, 934-946. | 2.4 | 44 |
| 52 | Empirical Study of China's Provincial Carbon Responsibility Sharing: Provincial Value Chain Perspective. <i>Sustainability</i> , 2017, 9, 569. | 1.6 | 8 |
| 53 | Regional-Level Carbon Emissions Modelling and Scenario Analysis: A STIRPAT Case Study in Henan Province, China. <i>Sustainability</i> , 2017, 9, 2342. | 1.6 | 28 |
| 54 | The CarbonTracker Data Assimilation Shell (CTDAS) v1.0: implementation and global carbon balance 2001-2015. <i>Geoscientific Model Development</i> , 2017, 10, 2785-2800. | 1.3 | 77 |

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|----|--|-----|-----------|
| 55 | “Made in China”: A reevaluation of embodied CO2 emissions in Chinese exports using firm heterogeneity information. <i>Applied Energy</i> , 2016, 184, 1106-1113. | 5.1 | 62 |
| 56 | Urban infrastructure choices structure climate solutions. <i>Nature Climate Change</i> , 2016, 6, 1054-1056. | 8.1 | 144 |
| 57 | Biophysical and economic limits to negative CO2 emissions. <i>Nature Climate Change</i> , 2016, 6, 42-50. | 8.1 | 973 |
| 58 | Reaching peak emissions. <i>Nature Climate Change</i> , 2016, 6, 7-10. | 8.1 | 194 |
| 59 | Uncertainties around reductions in China’s coal use and CO2 emissions. <i>Nature Climate Change</i> , 2016, 6, 687-690. | 8.1 | 91 |
| 60 | Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016, 8, 605-649. | 3.7 | 905 |
| 61 | Uncertainty in temperature response of current consumption-based emissions estimates. <i>Earth System Dynamics</i> , 2015, 6, 287-309. | 2.7 | 21 |
| 62 | Measuring a fair and ambitious climate agreement using cumulative emissions. <i>Environmental Research Letters</i> , 2015, 10, 105004. | 2.2 | 103 |
| 63 | Allocation of global temperature change to consumers. <i>Climatic Change</i> , 2015, 129, 43-55. | 1.7 | 2 |
| 64 | Environmental externality of coal use in China: Welfare effect and tax regulation. <i>Applied Energy</i> , 2015, 156, 16-31. | 5.1 | 63 |
| 65 | Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015, 7, 349-396. | 3.7 | 616 |
| 66 | Global carbon budget 2014. <i>Earth System Science Data</i> , 2015, 7, 47-85. | 3.7 | 463 |
| 67 | Betting on negative emissions. <i>Nature Climate Change</i> , 2014, 4, 850-853. | 8.1 | 846 |
| 68 | Global carbon budget 2013. <i>Earth System Science Data</i> , 2014, 6, 235-263. | 3.7 | 311 |
| 69 | Persistent growth of CO2 emissions and implications for reaching climate targets. <i>Nature Geoscience</i> , 2014, 7, 709-715. | 5.4 | 615 |
| 70 | Sharing a quota on cumulative carbon emissions. <i>Nature Climate Change</i> , 2014, 4, 873-879. | 8.1 | 295 |
| 71 | The challenge to keep global warming below 2 °C. <i>Nature Climate Change</i> , 2013, 3, 4-6. | 8.1 | 809 |
| 72 | A MULTI-REGION INPUT-OUTPUT TABLE BASED ON THE GLOBAL TRADE ANALYSIS PROJECT DATABASE (GTAP-MRIO). <i>Economic Systems Research</i> , 2013, 25, 99-121. | 1.2 | 215 |

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|----|--|-----|-----------|
| 73 | Assessment of multiple ecosystem services in New Zealand at the catchment scale. <i>Environmental Modelling and Software</i> , 2013, 43, 37-48. | 1.9 | 64 |
| 74 | Climate policy and dependence on traded carbon. <i>Environmental Research Letters</i> , 2013, 8, 034011. | 2.2 | 47 |
| 75 | The global carbon budget 1959â€“2011. <i>Earth System Science Data</i> , 2013, 5, 165-185. | 3.7 | 527 |
| 76 | Attribution of CO ₂ emissions from Brazilian deforestation to consumers between 1990 and 2010. <i>Environmental Research Letters</i> , 2013, 8, 024005. | 2.2 | 82 |
| 77 | Expansion of lifestyle blocks and urban areas onto high-class land: an update for planning and policy. <i>Journal of the Royal Society of New Zealand</i> , 2013, 43, 128-140. | 1.0 | 13 |
| 78 | A synthesis of carbon in international trade. <i>Biogeosciences</i> , 2012, 9, 3247-3276. | 1.3 | 247 |
| 79 | CONSTRUCTING AN ENVIRONMENTALLY-EXTENDED MULTI-REGIONAL INPUTâ€“OUTPUT TABLE USING THE GTAP DATABASE. <i>Economic Systems Research</i> , 2011, 23, 131-152. | 1.2 | 281 |
| 80 | APPROXIMATION AND REGIONAL AGGREGATION IN MULTI-REGIONAL INPUTâ€“OUTPUT ANALYSIS FOR NATIONAL CARBON FOOTPRINT ACCOUNTING. <i>Economic Systems Research</i> , 2009, 21, 311-335. | 1.2 | 165 |
| 81 | A three-perspective view of greenhouse gas emission responsibilities in New Zealand. <i>Ecological Economics</i> , 2008, 68, 194-204. | 2.9 | 103 |
| 82 | Life-cycle energy and CO ₂ analysis of stormwater treatment devices. <i>Water Science and Technology</i> , 2008, 58, 985-993. | 1.2 | 27 |
| 83 | Investigating the direct and indirect environmental pressures of New Zealand's food and fibre industries. <i>International Journal of Sustainable Development</i> , 2007, 10, 319. | 0.1 | 2 |
| 84 | A distributed model of water balance in the Motueka catchment, New Zealand. <i>Environmental Modelling and Software</i> , 2007, 22, 1519-1528. | 1.9 | 8 |
| 85 | Multi-scale landform characterization. <i>Area</i> , 2005, 37, 341-350. | 1.0 | 71 |
| 86 | Modelling nitrous oxide emissions from dairy-grazed pastures. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 68, 243-255. | 1.1 | 175 |