Paul Behrens

List of Publications by Year
in descending order

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46 papers	2,873 citations	218592 26 h-index	223716 46 g-index
46 all docs	46 docs citations	46 times ranked	3101 citing authors

#	Article	IF	Citations
1	Microplastics accumulate on pores in seed capsule and delay germination and root growth of the terrestrial vascular plant Lepidium sativum. Chemosphere, 2019, 226, 774-781.	4.2	453
2	A large-scale investigation of microplastic contamination: Abundance and characteristics of microplastics in European beach sediment. Marine Pollution Bulletin, 2017, 123, 219-226.	2.3	321
3	A standardized method for sampling and extraction methods for quantifying microplastics in beach sand. Marine Pollution Bulletin, 2017, 114, 77-83.	2.3	252
4	Evaluating the environmental impacts of dietary recommendations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13412-13417.	3.3	199
5	Trade-offs between social and environmental Sustainable Development Goals. Environmental Science and Policy, 2018, 90, 65-72.	2.4	167
6	The spatial extent of renewable and non-renewable power generation: A review and meta-analysis of power densities and their application in the U.S.. Energy Policy, 2018, 123, 83-91.	4.2	103
7	Water use of electricity technologies: A global meta-analysis. Renewable and Sustainable Energy Reviews, 2019, 115, 109391.	8.2	96
8	Global greenhouse gas emissions from residential and commercial building materials and mitigation strategies to 2060. Nature Communications, 2021, 12, 6126.	5.8	92
9	Microplastic pollution on Caribbean beaches in the Lesser Antilles. Marine Pollution Bulletin, 2018, 133, 442-447.	2.3	86
10	Climate change and the vulnerability of electricity generation to water stress in the European Union. Nature Energy, 2017, 2, .	19.8	78
11	Dietary change in high-income nations alone can lead to substantial double climate dividend. Nature Food, 2022, 3, 29-37.	6.2	70
12	Uncertainty of Consumption-Based Carbon Accounts. Environmental Science & Technology, 2018, 52, 7577-7586.	4.6	67
13	Provincial and sector-level material footprints in China. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26484-26490.	3.3	60
14	Driving forces of household carbon emissions in China: A spatial decomposition analysis. Journal of Cleaner Production, 2019, 233, 932-945.	4.6	59
15	Modeling oscillation modal interaction in a hydroelectric generating system. Energy Conversion and Management, 2018, 174, 208-217.	4.4	52
16	Environmental, economic, and social impacts of feed-in tariffs: A Portuguese perspective 2000â€“2010. Applied Energy, 2016, 173, 309-319.	5.1	48
17	The evolution of inter-sectoral linkages in China's energy-related CO2 emissions from 1997 to 2012. Energy Economics, 2018, 69, 404-417.	5.6	44
18	A review of dynamic models and stability analysis for a hydro-turbine governing system. Renewable and Sustainable Energy Reviews, 2021, 144, 110880.	8.2	38

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19	Determining global distribution of microplastics by combining citizen science and inâ€depth case studies. Integrated Environmental Assessment and Management, 2017, 13, 536-541.	1.6	36
20	Opportunity for a Dietary Win-Win-Win in Nutrition, Environment, and Animal Welfare. One Earth, 2019, 1, 349-360.	3.6	36
21	The effect of community consultation on perceptions of a proposed mine: A case study from southeast Australia. Resources Policy, 2017, 51, 163-171.	4.2	33
22	Environmental responsibility for sulfur dioxide emissions and associated biodiversity loss across Chinese provinces. Environmental Pollution, 2019, 245, 898-908.	3.7	33
23	Rebound effects may jeopardize the resource savings of circular consumption: evidence from household material footprints. Environmental Research Letters, 2020, 15, 104044.	2.2	33
24	The expected impacts of mining: Stakeholder perceptions of a proposed mineral sands mine in rural Australia. Resources Policy, 2016, 48, 129-136.	4.2	32
25	Drivers of CO2 emissions from electricity generation in the European Union 2000â€“2015. Renewable and Sustainable Energy Reviews, 2020, 133, 110104.	8.2	31
26	Corrections for Wind-Speed Errors from Sodar and Lidar in Complex Terrain. Boundary-Layer Meteorology, 2012, 143, 37-48.	1.2	29
27	Going Global to Local: Connecting Top-Down Accounting and Local Impacts, A Methodological Review of Spatially Explicit Inputâ€“Output Approaches. Environmental Science & Technology, 2019, 53, 1048-1062.	4.6	29
28	Different Material Footprint Trends between China and the World in 2007-2012 Explained by Construction- and Manufacturing-associated Investment. One Earth, 2022, 5, 109-119.	3.6	27
29	Carbon overhead: The impact of the expansion in low-carbon electricity in China 2015â€“2040. Energy Policy, 2018, 119, 97-104.	4.2	26
30	Increasing material efficiencies of buildings to address the global sand crisis. Nature Sustainability, 2022, 5, 389-392.	11.5	26
31	The impact of the expansion in non-fossil electricity infrastructure on Chinaâ€™s carbon emissions. Applied Energy, 2018, 228, 1994-2008.	5.1	23
32	Linking global crop and livestock consumption to local production hotspots. Global Food Security, 2020, 25, 100323.	4.0	23
33	Energy use in the global food system. Journal of Industrial Ecology, 2020, 24, 830-840.	2.8	21
34	The energy-water nexus of Chinaâ€™s interprovincial and seasonal electric power transmission. Applied Energy, 2021, 286, 116493.	5.1	20
35	Shared and environmentally just responsibility for global biodiversity loss. Ecological Economics, 2022, 194, 107339.	2.9	20
36	Impact of non-fossil electricity on the carbon emissions embodied in China's exports. Journal of Cleaner Production, 2018, 192, 582-596.	4.6	17

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37	Improving Subnational Inputâ€“Output Analyses Using Regional Trade Data: A Case-Study and Comparison. Environmental Science & Technology, 2020, 54, 12732-12741.	4.6	17
38	Climate change and CCS increase the water vulnerability of China's thermoelectric power fleet. Energy, 2022, 245, 123339.	4.5	16
39	The impact of seating location on black carbon exposure in public transit buses: Implications for vulnerable groups. Transportation Research, Part D: Transport and Environment, 2018, 62, 577-583.	3.2	15
40	The evolution and future perspectives of energy intensity in the global building sector 1971â€“2060. Journal of Cleaner Production, 2021, 305, 127098.	4.6	12
41	Underestimation of Monostatic Sodar Measurements in Complex Terrain. Boundary-Layer Meteorology, 2012, 143, 97-106.	1.2	9
42	Global Human Consumption Threatens Key Biodiversity Areas. Environmental Science & Technology, 2022, 56, 9003-9014.	4.6	7
43	Environmental impacts of the nutrition transition and potential hunger eradication in emerging countries. Sustainability Science, 2021, 16, 565-579.	2.5	6
44	A triple bottom line assessment of concentrated solar power generation in China and Europe 2020â€“2050. Renewable and Sustainable Energy Reviews, 2022, 167, 112677.	8.2	6
45	A Multisodar Approach to Wind Profiling. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1165-1174.	0.5	4
46	Biodiversity Loss from Freshwater Use for Chinaâ€™s Electricity Generation. Environmental Science & Technology, 2022, 56, 3277-3287.	4.6	1