

Edward A Byers

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,781
citations

279487

23
h-index

344852

36
g-index

45
all docs

45
docs citations

45
times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of climate change on energy systems in global and regional scenarios. <i>Nature Energy</i> , 2020, 5, 794-802.	19.8	180
2	Global exposure and vulnerability to multi-sector development and climate change hotspots. <i>Environmental Research Letters</i> , 2018, 13, 055012.	2.2	162
3	Electricity generation and cooling water use: UK pathways to 2050. <i>Global Environmental Change</i> , 2014, 25, 16-30.	3.6	151
4	Global resource potential of seasonal pumped hydropower storage for energy and water storage. <i>Nature Communications</i> , 2020, 11, 947.	5.8	121
5	Improving the SDG energy poverty targets: Residential cooling needs in the Global South. <i>Energy and Buildings</i> , 2019, 186, 405-415.	3.1	93
6	Energy systems in scenarios at net-zero CO2 emissions. <i>Nature Communications</i> , 2021, 12, 6096.	5.8	91
7	The timing of unprecedented hydrological drought under climate change. <i>Nature Communications</i> , 2022, 13, .	5.8	77
8	Comparison between seasonal pumped-storage and conventional reservoir dams from the water, energy and land nexus perspective. <i>Energy Conversion and Management</i> , 2018, 166, 385-401.	4.4	70
9	A high-resolution gridded dataset to assess electrification in sub-Saharan Africa. <i>Scientific Data</i> , 2019, 6, 110.	2.4	65
10	A Continentalâ€Scale Hydroeconomic Model for Integrating Waterâ€Energyâ€Land Nexus Solutions. <i>Water Resources Research</i> , 2018, 54, 7511-7533.	1.7	57
11	Co-designing Indus Water-Energy-Land Futures. <i>One Earth</i> , 2019, 1, 185-194.	3.6	54
12	Drought and climate change impacts on cooling water shortages and electricity prices in Great Britain. <i>Nature Communications</i> , 2020, 11, 2239.	5.8	53
13	Multiâ€model and multiâ€scenario assessments of Asian water futures: The Water Futures and Solutions (WFaS) initiative. <i>Earth's Future</i> , 2017, 5, 823-852.	2.4	50
14	Air qualityâ€carbonâ€water synergies and trade-offs in Chinaâ€™s natural gas industry. <i>Nature Sustainability</i> , 2018, 1, 505-511.	11.5	49
15	Balancing clean water-climate change mitigation trade-offs. <i>Environmental Research Letters</i> , 2019, 14, 014009.	2.2	48
16	Transboundary cooperation a potential route to sustainable development in the Indus basin. <i>Nature Sustainability</i> , 2021, 4, 331-339.	11.5	47
17	Satellite Observations Reveal Inequalities in the Progress and Effectiveness of Recent Electrification in Sub-Saharan Africa. <i>One Earth</i> , 2020, 2, 364-379.	3.6	40
18	Water and climate risks to power generation with carbon capture and storage. <i>Environmental Research Letters</i> , 2016, 11, 024011.	2.2	39

#	ARTICLE	IF	CITATIONS
19	Vulnerability of existing and planned coal-fired power plants in Developing Asia to changes in climate and water resources. <i>Energy and Environmental Science</i> , 2019, 12, 3164-3181.	15.6	38
20	The NExus Solutions Tool (NEST) v1.0: an open platform for optimizing multi-scale energy-water-land system transformations. <i>Geoscientific Model Development</i> , 2020, 13, 1095-1121.	1.3	31
21	Technical potential and cost estimates for seawater air conditioning. <i>Energy</i> , 2019, 166, 979-988.	4.5	30
22	Global scenarios of household access to modern energy services under climate mitigation policy. <i>Nature Energy</i> , 2021, 6, 824-833.	19.8	29
23	Global scenarios of residential heating and cooling energy demand and CO2 emissions. <i>Climatic Change</i> , 2021, 168, 1.	1.7	28
24	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. <i>Water (Switzerland)</i> , 2019, 11, 2223.	1.2	24
25	A framework for the exergy analysis of future transport pathways: Application for the United Kingdom transport system 2010-2050. <i>Energy</i> , 2015, 88, 849-862.	4.5	21
26	Hydropower and seasonal pumped hydropower storage in the Indus basin: pros and cons. <i>Journal of Energy Storage</i> , 2021, 41, 102916.	3.9	21
27	Quantifying the potential for reservoirs to secure future surface water yields in the world's largest river basins. <i>Environmental Research Letters</i> , 2018, 13, 044026.	2.2	20
28	Future cooling gap in shared socioeconomic pathways. <i>Environmental Research Letters</i> , 2021, 16, 094053.	2.2	19
29	Reducing sea level rise with submerged barriers and dams in Greenland. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019, 24, 779-794.	1.0	17
30	Dams with head increaser effect: Harnessing potential and kinetic power from rivers with large head and flow variation. <i>Energy Conversion and Management</i> , 2018, 157, 549-561.	4.4	12
31	Cooling water for Britain's future electricity supply. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2015, 168, 188-204.	0.5	7
32	Electricity systems capacity expansion under cooling water availability constraints. <i>IET Energy Systems Integration</i> , 2019, 1, 23-33.	1.1	6
33	Using the jet stream for sustainable airship and balloon transportation of cargo and hydrogen. <i>Energy Conversion and Management: X</i> , 2019, 3, 100016.	0.9	5
34	Tools for tackling the water-energy-food nexus. <i>Change and Adaptation in Socio-Ecological Systems</i> , 2015, 2, .	1.5	5
35	Balancing smart irrigation and hydropower investments for sustainable water conservation in the Indus basin. <i>Environmental Science and Policy</i> , 2022, 135, 147-161.	2.4	4
36	UK nuclear and fossil fuel energy infrastructure climate risks. <i>Infrastructure Asset Management</i> , 2015, 2, 120-130.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Quantifying interdependencies: the energy-transport and water-energy nexus. , 0, , 227-240.		0