

Jordan Macknick

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,905
citations

304602

22
h-index

302012

39
g-index

76
all docs

76
docs citations

76
times ranked

1901
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-ecological synergies of solar energy for global sustainability. <i>Nature Sustainability</i> , 2019, 2, 560-568.	11.5	187
2	Colocation opportunities for large solar infrastructures and agriculture in drylands. <i>Applied Energy</i> , 2016, 165, 383-392.	5.1	125
3	A retrospective analysis of benefits and impacts of U.S. renewable portfolio standards. <i>Energy Policy</i> , 2016, 96, 645-660.	4.2	122
4	Implications of high renewable electricity penetration in the U.S. for water use, greenhouse gas emissions, land-use, and materials supply. <i>Applied Energy</i> , 2014, 123, 368-377.	5.1	109
5	Climate and water resource change impacts and adaptation potential for US power supply. <i>Nature Climate Change</i> , 2017, 7, 793-798.	8.1	103
6	Floating Photovoltaic Systems: Assessing the Technical Potential of Photovoltaic Systems on Man-Made Water Bodies in the Continental United States. <i>Environmental Science & Technology</i> , 2019, 53, 1680-1689.	4.6	100
7	The environmental and public health benefits of achieving high penetrations of solar energy in the United States. <i>Energy</i> , 2016, 113, 472-486.	4.5	71
8	A review of the potential impacts of climate change on bulk power system planning and operations in the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 98, 255-267.	8.2	67
9	Energy and CO ₂ emission data uncertainties. <i>Carbon Management</i> , 2011, 2, 189-205.	1.2	57
10	Transitioning to zero freshwater withdrawal in the U.S. for thermoelectric generation. <i>Applied Energy</i> , 2014, 131, 508-516.	5.1	54
11	Examining the Potential for Agricultural Benefits from Pollinator Habitat at Solar Facilities in the United States. <i>Environmental Science & Technology</i> , 2018, 52, 7566-7576.	4.6	50
12	Effects of Revegetation on Soil Physical and Chemical Properties in Solar Photovoltaic Infrastructure. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	50
13	Assessing the costs and benefits of US renewable portfolio standards. <i>Environmental Research Letters</i> , 2017, 12, 094023.	2.2	44
14	Long-term implications of sustained wind power growth in the United States: Potential benefits and secondary impacts. <i>Applied Energy</i> , 2016, 179, 146-158.	5.1	40
15	The Land Sparing, Water Surface Use Efficiency, and Water Surface Transformation of Floating Photovoltaic Solar Energy Installations. <i>Sustainability</i> , 2020, 12, 8154.	1.6	39
16	Impact of climate change on water availability and its propagation through the Western U.S. power grid. <i>Applied Energy</i> , 2020, 276, 115467.	5.1	38
17	Modeling biofuel expansion effects on land use change dynamics. <i>Environmental Research Letters</i> , 2013, 8, 015003.	2.2	31
18	Oil and Gas Produced Water Reuse: Opportunities, Treatment Needs, and Challenges. <i>ACS ES&T Engineering</i> , 2022, 2, 347-366.	3.7	31

#	ARTICLE	IF	CITATIONS
19	Understanding the life cycle surface land requirements of natural gas-fired electricity. <i>Nature Energy</i> , 2017, 2, 804-812.	19.8	30
20	Using a coupled agent-based modeling approach to analyze the role of risk perception in water management decisions. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2261-2278.	1.9	28
21	Climate-Water Adaptation for Future US Electricity Infrastructure. <i>Environmental Science & Technology</i> , 2019, 53, 14029-14040.	4.6	27
22	Modeling the ecosystem services of native vegetation management practices at solar energy facilities in the Midwestern United States. <i>Ecosystem Services</i> , 2021, 47, 101227.	2.3	25
23	The power of efficiency: Optimizing environmental and social benefits through demand-side-management. <i>Energy</i> , 2014, 76, 502-512.	4.5	23
24	Opportunities and Challenges for Industrial Water Treatment and Reuse. <i>ACS ES&T Engineering</i> , 2022, 2, 465-488.	3.7	19
25	Planning for Algal Systems: An Energy-Water-Food Nexus Perspective. <i>Industrial Biotechnology</i> , 2014, 10, 202-211.	0.5	16
26	Decomposing supply-side and demand-side impacts of climate change on the US electricity system through 2050. <i>Climatic Change</i> , 2020, 158, 125-139.	1.7	16
27	Optimization Framework to Assess the Demand Response Capacity of a Water Distribution System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	15
28	Analysis of Brackish Water Desalination for Municipal Uses: Case Studies on Challenges and Opportunities. <i>ACS ES&T Engineering</i> , 2022, 2, 306-322.	3.7	15
29	Modeling Climate-Water Impacts on Electricity Sector Capacity Expansion. , 2014, , .		12
30	Combined land use of solar infrastructure and agriculture for socioeconomic and environmental co-benefits in the tropics. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111610.	8.2	11
31	A Framework for Quantitative Assessment of Impacts Related to Energy and Mineral Resource Development. <i>Natural Resources Research</i> , 2014, 23, 3-17.	2.2	10
32	Zero Liquid Discharge and Water Reuse in Recirculating Cooling Towers at Power Facilities: Review and Case Study Analysis. <i>ACS ES&T Engineering</i> , 2022, 2, 508-525.	3.7	9
33	A review of water and greenhouse gas impacts of unconventional natural gas development in the United States. <i>MRS Energy & Sustainability</i> , 2015, 2, 1.	1.3	8
34	An enterprise control assessment case study of the energyâ€“water nexus for the ISO New England system. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110766.	8.2	8
35	Transboundary Forestry and Water Management in Nicaragua and Honduras: From Conflicts to Opportunities for Cooperation. <i>Journal of Sustainable Forestry</i> , 2012, 31, 376-395.	0.6	7
36	Opportunities for Treatment and Reuse of Agricultural Drainage in the United States. <i>ACS ES&T Engineering</i> , 2022, 2, 292-305.	3.7	7

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37	Spatiotemporal energy infrastructure datasets for the United States: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111616.	8.2	6
38	Pipe Parity Analysis of Seawater Desalination in the United States: Exploring Costs, Energy, and Reliability via Case Studies and Scenarios of Emerging Technology. <i>ACS ES&T Engineering</i> , 2022, 2, 434-445.	3.7	6
39	Life cycle water use for photovoltaic electricity generation: A review and harmonization of literature estimates. , 2014, , .		3
40	More caution about energy and carbon reports. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, E38.	3.3	2
41	Future Projections of Water Demands for Energy. <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 772-786.	0.0	1
42	Life Cycle Water Use for Electricity Generation: Implications of the Distribution of Collected Estimates. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 425-433.	0.0	1
43	Integrated Energy-Water Planning in the Western and Texas Interconnections. , 2013, , .		1
44	Energy Usage and Management at a Large Wastewater Treatment Facility in Boulder, Colorado. , 2011, , .		0
45	The Water Implications of Generating Electricity: Water Consumption Across the United States Based on Different Electricity Pathways through 2050. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 221-232.	0.0	0