

Thomas A Deetjen

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

331
citations

932766

10
h-index

1199166

12
g-index

14
all docs

14
docs citations

14
times ranked

346
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating rotational inertia as a component of grid reliability with high penetrations of variable renewable energy. <i>Energy</i> , 2019, 180, 258-271.	4.5	94
2	Review of climate action plans in 29 major U.S. cities: Comparing current policies to research recommendations. <i>Sustainable Cities and Society</i> , 2018, 41, 711-727.	5.1	45
3	The impacts of wind and solar on grid flexibility requirements in the Electric Reliability Council of Texas. <i>Energy</i> , 2017, 123, 637-654.	4.5	42
4	Reduced-Order Dispatch Model for Simulating Marginal Emissions Factors for the United States Power Sector. <i>Environmental Science & Technology</i> , 2019, 53, 10506-10513.	4.6	34
5	Solar PV integration cost variation due to array orientation and geographic location in the Electric Reliability Council of Texas. <i>Applied Energy</i> , 2016, 180, 607-616.	5.1	26
6	Modeling the optimal mix and location of wind and solar with transmission and carbon pricing considerations. <i>Renewable Energy</i> , 2018, 120, 35-50.	4.3	18
7	Optimal dispatch and equipment sizing of a residential central utility plant for improving rooftop solar integration. <i>Energy</i> , 2018, 147, 1044-1059.	4.5	17
8	US residential heat pumps: the private economic potential and its emissions, health, and grid impacts. <i>Environmental Research Letters</i> , 2021, 16, 084024.	2.2	17
9	Optimal sizing and dispatch for a community-scale potable water recycling facility. <i>Sustainable Cities and Society</i> , 2018, 39, 225-240.	5.1	14
10	Can storage reduce electricity consumption? A general equation for the grid-wide efficiency impact of using cooling thermal energy storage for load shifting. <i>Environmental Research Letters</i> , 2018, 13, 024013.	2.2	10
11	Climate and Health Benefits of Rapid Coal-to-Gas Fuel Switching in the U.S. Power Sector Offset Methane Leakage and Production Cost Increases. <i>Environmental Science & Technology</i> , 2020, 54, 11494-11505.	4.6	7
12	How different power plant types contribute to electric grid reliability, resilience, and vulnerability: a comparative analytical framework. <i>Progress in Energy</i> , 2021, 3, 033001.	4.6	7
13	Optimizing capacity extensions in power systems: A case study of Bavaria and a comparison to Texas. , 2017, , .		0
14	Improving solar-induced grid-level flexibility requirements using residential central utility plants. , 2017, , .		0