

Aaron P Wemhoff

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

184
citations

1039406

9
h-index

1125271

13
g-index

22
all docs

22
docs citations

22
times ranked

177
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of data center cooling efficiency using reduced order flow modeling within a flow network modeling approach. Applied Thermal Engineering, 2017, 124, 929-939.	3.0	40
2	Life cycle environmental impacts of food away from home and mitigation strategies—a review. Journal of Environmental Management, 2020, 265, 110471.	3.8	25
3	Thermal conductivity predictions of composites containing percolated networks of uniform cylindrical inclusions. International Journal of Heat and Mass Transfer, 2013, 62, 255-262.	2.5	22
4	Predicting embodied carbon emissions from purchased electricity for United States counties. Applied Energy, 2021, 292, 116898.	5.1	18
5	Rapid prediction of exergy destruction in data centers due to airflow mixing. Numerical Heat Transfer; Part A: Applications, 2016, 70, 48-63.	1.2	15
6	Life cycle inventory regionalization and uncertainty characterization: A multilevel modeling approach. Journal of Cleaner Production, 2020, 242, 118459.	4.6	13
7	Gaussian Process Regression as a Replicable, Streamlined Approach to Inventory and Uncertainty Analysis in Life Cycle Assessment. Environmental Science & Technology, 2022, 56, 3821-3829.	4.6	11
8	Energy and Exergy Analysis of Modular Data Centers. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1440-1452.	1.4	10
9	Investigation of nanoparticle agglomeration on the effective thermal conductivity of a composite material. International Journal of Heat and Mass Transfer, 2016, 97, 432-438.	2.5	9
10	Thermal conductivity predictions of herringbone graphite nanofibers using molecular dynamics simulations. Journal of Chemical Physics, 2013, 138, 084708.	1.2	7
11	A novel approach to the data center hybrid cooling design with containment. Numerical Heat Transfer; Part A: Applications, 2017, 71, 477-487.	1.2	6
12	Extension of the Neoclassical Theory of Capillarity to Advanced Cubic Equations of State. International Journal of Thermophysics, 2010, 31, 253-275.	1.0	3
13	An exergy-based analysis of the effects of rear door heat exchange systems on data center energy efficiency. , 2014, , .		3
14	Economic and Environmental Analysis of U.S.-Based Data Centers Containing Photovoltaic Power Generation. , 2019, , .		1
15	Assessing the impact of electricity consumption on water resources in the U.S.. Resources, Conservation and Recycling, 2022, 178, 106087.	5.3	1
16	Thermophysical Phenomena Associated With Nano-Droplet Impingement on a Solid Surface. Journal of Heat Transfer, 2012, 134, .	1.2	0
17	The Performance Impact of Integrating Water Storage Into a Chiller-Less Data Center Design. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	0
18	Coupled Calculations of Data Center Cooling and Power Distribution Systems. Journal of Electronic Packaging, Transactions of the ASME, 2021, , .	1.2	0

#	ARTICLE	IF	CITATIONS
19	Engaging Students in the Complex Issues Surrounding Data Center Thermal Management. , 0, , .		0
20	Enticing Undergraduate Students to Pursue Graduate Research at an Undergraduate-Focused Institution. , 0, , .		0
21	Exchange: Sea Perch/MATE Science Learning Modules. , 0, , .		0
22	Exercises for Students to Learn the Proper Application of Analytical Commercial Engineering Software. , 0, , .		0