

Bahgat G Sammakia

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

443
citations

623734

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h-index

752698

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all docs

30
docs citations

30
times ranked

320
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental and numerical investigation of novel solution for energy management enhancement in data centers using underfloor plenum porous obstructions. Applied Energy, 2021, 289, 116663.	10.1	36
2	Multiscale modeling of thermoelectric generators for the optimized conversion performance. International Journal of Heat and Mass Transfer, 2013, 62, 435-444.	4.8	34
3	Chip to Facility Ramifications of Containment Solution on IT Airflow and Uptime. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 67-78.	2.5	33
4	Experimental-Numerical Comparison for a High-Density Data Center: Hot Spot Heat Fluxes in Excess of 500 W/ft ² . IEEE Transactions on Components and Packaging Technologies, 2009, 32, 166-172.	1.3	31
5	Multi-objective optimization of a chip-attached micro pin fin liquid cooling system. Applied Thermal Engineering, 2021, 195, 117187.	6.0	31
6	Modeling of boiling flow in microchannels for nucleation characteristics and performance optimization. International Journal of Heat and Mass Transfer, 2013, 64, 706-718.	4.8	29
7	Experimentally Validated Computational Fluid Dynamics Model for a Data Center With Cold Aisle Containment. Journal of Electronic Packaging, Transactions of the ASME, 2015, 137, .	1.8	29
8	Performance Analysis of a Combination System of Concentrating Photovoltaic/Thermal Collector and Thermoelectric Generators. Journal of Electronic Packaging, Transactions of the ASME, 2014, 136, .	1.8	23
9	Chip to Chiller Experimental Cooling Failure Analysis of Data Centers: The Interaction Between IT and Facility. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1361-1378.	2.5	21
10	Degradation of Fan Performance in Cooling Electronics: Experimental Investigation and Evaluating Numerical Techniques. International Journal of Heat and Mass Transfer, 2021, 174, 121291.	4.8	20
11	Multi-objective optimization of 3D printed liquid cooled heat sink with guide vanes for targeting hotspots in high heat flux electronics. International Journal of Heat and Mass Transfer, 2022, 184, 122287.	4.8	20
12	Performance and Reliability Analysis of Hybrid Concentrating Photovoltaic/Thermal Collectors With Tree-Shaped Channel Nets' Cooling System. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 967-977.	2.5	18
13	Shifting to energy efficient hybrid cooled data centers using novel embedded floor tiles heat exchangers. Energy Conversion and Management, 2021, 247, 114762.	9.2	17
14	Cross Flow Heat Exchanger Modeling of Transient Temperature Input Conditions. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1796-1807.	2.5	16
15	Multiscale modeling of Thermoelectric Generators for conversion performance enhancement. International Journal of Heat and Mass Transfer, 2015, 81, 639-645.	4.8	15
16	Analysis of airflow imbalances in an open compute high density storage data center. Applied Thermal Engineering, 2016, 108, 937-950.	6.0	13
17	Thermal Modeling and Life Prediction of Water-Cooled Hybrid Concentrating Photovoltaic/Thermal Collectors. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.8	12
18	Impact of elevated temperature on data center operation based on internal and external IT instrumentation. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
19	Machine learning assisted development of IT equipment compact models for data centers energy planning. Applied Energy, 2022, 305, 117846.	10.1	9
20	Additive Laser Metal Deposition Onto Silicon for Enhanced Microelectronics Cooling. , 2019, , .		7
21	Microfabrication of ultrahigh density wafer-level thin film compliant interconnects for through-silicon-via based chip stacks. Journal of Vacuum Science & Technology B, 2006, 24, 1780.	1.3	4
22	General Guidelines for Commercialization a Small-Scale In-Row Cooled Data Center: A Case Study. , 2020, , .		3
23	Experimental and Numerical Analysis of Data Center Pressure and Flow Fields Induced by Backward and Forward CRAH Technology. Journal of Electronic Packaging, Transactions of the ASME, 2022, 144, .	1.8	3
24	Squeezing Flow of a Power Law Fluid Between Grooved Plates. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.8	2
25	A multiscale modeling of Thermoelectric Generators for conversion efficiency optimization. , 2012, , .		2
26	Management and predictions of operational changes and growth in mission critical facilities. , 2016, , .		2
27	Modeling of Two-Phase Micro-Channel Flow for Thermal Management of Electronic Systems. , 2010, , .		1
28	Modeling racks and servers heat capacity in a physics based dynamic CFD model of data centers. , 2013, , .		1
29	Empirical analysis of blower cooling failure in containment: Effects on IT performance. , 2016, , .		1
30	Novel Experimental Methodology for Characterizing Fan Performance in Highly Resistive Environments. , 2020, , .		1