

# Bahgat G Sammakia

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

443  
citations

623734

14  
h-index

752698

20  
g-index

30  
all docs

30  
docs citations

30  
times ranked

320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning assisted development of IT equipment compact models for data centers energy planning. Applied Energy, 2022, 305, 117846.	10.1	9
2	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
3	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
4	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
5	Multi-objective optimization of a chip-attached micro pin fin liquid cooling system. Applied Thermal Engineering, 2021, 195, 117187.	6.0	31
6	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
7	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
8	Novel Experimental Methodology for Characterizing Fan Performance in Highly Resistive Environments. , 2020, , .		1
9	General Guidelines for Commercialization a Small-Scale In-Row Cooled Data Center: A Case Study. , 2020, , .		3
10	Additive Laser Metal Deposition Onto Silicon for Enhanced Microelectronics Cooling. , 2019, , .		7
11	Impact of elevated temperature on data center operation based on internal and external IT instrumentation. , 2017, , .		9
12	Empirical analysis of blower cooling failure in containment: Effects on IT performance. , 2016, , .		1
13	Analysis of airflow imbalances in an open compute high density storage data center. Applied Thermal Engineering, 2016, 108, 937-950.	6.0	13
14	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
15	Management and predictions of operational changes and growth in mission critical facilities. , 2016, , .		2
16	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
17	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
18	Multiscale modeling of Thermoelectric Generators for conversion performance enhancement. International Journal of Heat and Mass Transfer, 2015, 81, 639-645.	4.8	15

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Multiscale modeling of thermoelectric generators for the optimized conversion performance. International Journal of Heat and Mass Transfer, 2013, 62, 435-444.	4.8	34
23	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
24	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
25	Modeling racks and servers heat capacity in a physics based dynamic CFD model of data centers. , 2013, , .		1
26	A multiscale modeling of Thermoelectric Generators for conversion efficiency optimization. , 2012, , .		2
27	Modeling of Two-Phase Micro-Channel Flow for Thermal Management of Electronic Systems. , 2010, , .		1
28	Squeezing Flow of a Power Law Fluid Between Grooved Plates. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.8	2
29	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
30	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