

# Shankar Krishnan

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,438  
citations

567281

15  
h-index

414414

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1030  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Simulation of Transport in Open-Cell Metal Foam. <i>Journal of Heat Transfer</i> , 2006, 128, 793-799.	2.1	223
2	Enhancement of pool-boiling heat transfer using nanostructured surfaces on aluminum and copper. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3357-3365.	4.8	174
3	A Two-Temperature Model for Solid-Liquid Phase Change in Metal Foams. <i>Journal of Heat Transfer</i> , 2005, 127, 995-1004.	2.1	155
4	Towards a Thermal Moore's Law. <i>IEEE Transactions on Advanced Packaging</i> , 2007, 30, 462-474.	1.6	122
5	A novel hybrid heat sink using phase change materials for transient thermal management of electronics. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2005, 28, 281-289.	1.3	111
6	Simulation of Thermal Transport in Open-Cell Metal Foams: Effect of Periodic Unit-Cell Structure. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	86
7	Analysis of a Phase Change Energy Storage System for Pulsed Power Dissipation. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2004, 27, 191-199.	1.3	79
8	Fluid flow and heat transfer characteristics of octet truss lattice geometry. <i>International Journal of Thermal Sciences</i> , 2019, 137, 253-261.	4.9	68
9	A Two-Temperature Model for the Analysis of Passive Thermal Control Systems. <i>Journal of Heat Transfer</i> , 2004, 126, 628.	2.1	65
10	Experimental investigation of heat transfer and fluid flow in octet-truss lattice geometry. <i>International Journal of Thermal Sciences</i> , 2019, 143, 64-75.	4.9	57
11	Analysis of Solid-Liquid Phase Change Under Pulsed Heating. <i>Journal of Heat Transfer</i> , 2007, 129, 395-400.	2.1	49
12	Design of Complex Structured Monolithic Heat Sinks for Enhanced Air Cooling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012, 2, 266-277.	2.5	34
13	A Review On Transient Thermal Management of Electronic Devices. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2021, , .	1.8	24
14	Experimental investigation on the local heat transfer with a circular jet impinging on a metal foamed flat plate. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120405.	4.8	21
15	Capillary Rise of Nanostructured Microwicks. <i>Micromachines</i> , 2018, 9, 153.	2.9	15
16	Experimental investigation on the local heat transfer with an unconfined slot jet impinging on a metal foamed flat plate. <i>International Journal of Thermal Sciences</i> , 2021, 169, 107065.	4.9	15
17	Towards Thermal-Acoustic Co-Design of Noise-Reducing Heat Sinks. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 1411-1419.	2.5	14
18	Selection of periodic cellular structures for multifunctional applications directly based on their unit cell geometry. <i>International Journal of Mechanical Sciences</i> , 2022, 220, 107133.	6.7	14

#	ARTICLE	IF	CITATIONS
19	A similarity solution for heat transfer analysis during progressive freeze-concentration based desalination. <i>International Journal of Thermal Sciences</i> , 2022, 172, 107328.	4.9	11
20	A novel hybrid heat sink using phase change materials for transient thermal management of electronics. , 0, , .		10
21	Analysis of Fluid Flow and Heat Transfer in Corrugated Porous Fin Heat Sinks. <i>Heat Transfer Engineering</i> , 2021, 42, 1539-1556.	1.9	10
22	Experimental and theoretical investigation of a novel system for progressive freeze-concentration based desalination process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 173, 108821.	3.6	10
23	Economic analysis and experimental investigation of a direct absorption solar humidification-dehumidification system for decentralized water production. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101306.	2.7	7
24	Separation of conduction and convection heat transfer effects for a metal foamed flat plate impinged by a circular jet. <i>International Journal of Heat and Mass Transfer</i> , 2022, 185, 122387.	4.8	7
25	Influence of metal foam thickness on the conduction and convective heat transfer for a flat plate with metal foam impinged by a rectangular slot jet. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107665.	4.9	7
26	Impact of entryâ€œexit loss on the measurement of flow resistivity of porous materials. <i>AIP Advances</i> , 2020, 10, .	1.3	6
27	Experimental investigation of two-phase pumpless loop with aqueous anionic surfactant as working fluid. <i>International Journal of Thermal Sciences</i> , 2020, 154, 106400.	4.9	6
28	Evaluation of Stochastic and Periodic Cellular Materials for Combined Heat Dissipation and Noise Reduction: Experiments and Modeling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 1185-1203.	2.5	6
29	A priori determination of the elastic and acoustic responses of periodic poroelastic materials. <i>Applied Acoustics</i> , 2020, 169, 107455.	3.3	6
30	Design and parametric study of macro-structure of foams for combined high absorption and low pressure drop. <i>Applied Acoustics</i> , 2020, 166, 107358.	3.3	6
31	Thermal Influence Coefficients-Based Electrothermal Modeling Approach for Power Electronics. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021, 11, 1187-1196.	2.5	5
32	Performance analysis of a phase change energy storage system for pulsed power dissipation. , 0, , .		4
33	Control of Boiling Instabilities in a Two-Phase Pumpless Loop Using Water-Alcohol Mixtures. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	4
34	A Critical Review and Perspective on Thermal Management of Power Electronics Modules for Inverters and Converters. , 2022, 7, 47-60.		4
35	Analysis of Fluid Flow and Heat Transfer in Corrugated Perforated Plate Fin Heat Sinks. <i>Journal of Thermal Science and Engineering Applications</i> , 0, , 1-30.	1.5	2
36	Numerical Investigation of Heat Transfer Enhancement Due to Flow Agitators Between Fins. <i>Journal of Thermal Science and Engineering Applications</i> , 2022, 14, .	1.5	1

#	ARTICLE	IF	CITATIONS
37	Thermal Characterization of Open-Celled Metal Foams by Direct Simulation. , 0, , 267-289.		0
38	Heat transfer during diffusion-controlled unidirectional solidification of binary mixtures: effect of material advection. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	1.3	0