Michael T Barako

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11816674/publications.pdf

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27	736	623734	677142
papers	citations	14 h-index	22 g-index

27	27	27	1059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal Conduction in Vertically Aligned Copper Nanowire Arrays and Composites. ACS Applied Materials & Interfaces, 2015, 7, 19251-19259.	8.0	99
2	Power density optimization for micro thermoelectric generators. Energy, 2015, 93, 2006-2017.	8.8	76
3	Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. Nano Letters, 2016, 16, 2754-2761.	9.1	72
4	Thermal homeostasis using microstructured phase-change materials. Optica, 2017, 4, 1390.	9.3	60
5	Dense Vertically Aligned Copper Nanowire Composites as High Performance Thermal Interface Materials. ACS Applied Materials & Interfaces, 2017, 9, 42067-42074.	8.0	51
6	Capillary Wicking in Hierarchically Textured Copper Nanowire Arrays. ACS Applied Materials & Interfaces, 2019, 11, 1546-1554.	8.0	48
7	Enhanced Capillaryâ€Fed Boiling in Copper Inverse Opals via Template Sintering. Advanced Functional Materials, 2018, 28, 1803689.	14.9	46
8	Integrated nanomaterials for extreme thermal management: a perspective for aerospace applications. Nanotechnology, 2018, 29, 154003.	2.6	42
9	Experimental demonstration of dynamic thermal regulation using vanadium dioxide thin films. Scientific Reports, 2020, 10, 13964.	3.3	38
10	Optimizing the design of composite phase change materials for high thermal power density. Journal of Applied Physics, 2018, 124, .	2.5	35
11	Achieving High Thermoelectric Performance and Metallic Transport in Solventâ€Sheared PEDOT:PSS. Advanced Electronic Materials, 2021, 7, 2001190.	5.1	32
12	Reactive Metal Bonding of Carbon Nanotube Arrays for Thermal Interface Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1906-1913.	2.5	18
13	Tailoring Permeability of Microporous Copper Structures through Template Sintering. ACS Applied Materials & Interfaces, 2018, 10, 30487-30494.	8.0	18
14	Experimental Characterization of Microfabricated Thermoelectric Energy Harvesters for Smart Sensor and Wearable Applications. Advanced Materials Technologies, 2018, 3, 1700383.	5.8	17
15	Approaching the Practical Conductivity Limits of Aerosol Jet Printed Silver. ACS Applied Materials & Interfaces, 2020, 12, 29684-29691.	8.0	16
16	Design and optimization of well-ordered microporous copper structure for high heat flux cooling applications. International Journal of Heat and Mass Transfer, 2021, 173, 121241.	4.8	15
17	Thermal conduction in nanoporous copper inverse opal films. , 2014, , .		11
18	Enhanced Heat Transfer Using Microporous Copper Inverse Opals. Journal of Electronic Packaging, Transactions of the ASME, 2018, 140, .	1.8	11

#	Article	IF	Citations
19	Objective oriented phase change material composite heat sink design. Applied Thermal Engineering, 2022, 209, 118235.	6.0	9
20	Thermal homeostasis using microstructured phase-change materials: erratum. Optica, 2018, 5, 1155.	9.3	6
21	Characterization of the capillary performance of copper inverse opals. , 2016, , .		5
22	Dielectric barrier layers by low-temperature plasma-enhanced atomic layer deposition of silicon dioxide. Thin Solid Films, 2018, 649, 24-29.	1.8	5
23	Ultralow RF Signal Loss in Aerosol Jet Printed Silver Microstrip Lines up to 18 GHz. IEEE Access, 2022, 10, 32973-32980.	4.2	3
24	Nanoscale conformable coatings for enhanced thermal conduction of carbon nanotube films. , 2012, , .		2
25	Evaluating Variable-Emissivity Surfaces for Radiative Thermal Control. Journal of Thermophysics and Heat Transfer, 2022, 36, 1003-1014.	1.6	1
26	Bicontinuous Mesoporous Metal Foams with Enhanced Conductivity and Tunable Pore Size and Porosity via Electrodeposition for Electrochemical and Thermal Systems. ACS Applied Nano Materials, 2020, 3, 12408-12415.	5.0	0
27	Passive Thermal Homeostasis using Vanadium Dioxide Thin Films. , 2020, , .		0