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	Ultralow RF Signal Loss in Aerosol Jet Printed Silver Microstrip Lines up to 18 GHz. IEEE Access, 2022, 10, 32973-32980.	4.2	3
2	Objective oriented phase change material composite heat sink design. Applied Thermal Engineering, 2022, 209, 118235.	6.0	9
3	Evaluating Variable-Emissivity Surfaces for Radiative Thermal Control. Journal of Thermophysics and Heat Transfer, 2022, 36, 1003-1014.	1.6	1
4	Achieving High Thermoelectric Performance and Metallic Transport in Solventâ€Sheared PEDOT:PSS. Advanced Electronic Materials, 2021, 7, 2001190.	5.1	32
5	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
6	Experimental demonstration of dynamic thermal regulation using vanadium dioxide thin films. Scientific Reports, 2020, 10, 13964.	3.3	38
7	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
8	Approaching the Practical Conductivity Limits of Aerosol Jet Printed Silver. ACS Applied Materials & Interfaces, 2020, 12, 29684-29691.	8.0	16
9	Passive Thermal Homeostasis using Vanadium Dioxide Thin Films. , 2020, , .		0
10	Capillary Wicking in Hierarchically Textured Copper Nanowire Arrays. ACS Applied Materials & Interfaces, 2019, 11, 1546-1554.	8.0	48
11	Experimental Characterization of Microfabricated Thermoelectric Energy Harvesters for Smart Sensor and Wearable Applications. Advanced Materials Technologies, 2018, 3, 1700383.	5.8	17
12	Dielectric barrier layers by low-temperature plasma-enhanced atomic layer deposition of silicon dioxide. Thin Solid Films, 2018, 649, 24-29.	1.8	5
13	Integrated nanomaterials for extreme thermal management: a perspective for aerospace applications. Nanotechnology, 2018, 29, 154003.	2.6	42
14	Optimizing the design of composite phase change materials for high thermal power density. Journal of Applied Physics, 2018, 124, .	2.5	35
15	Enhanced Heat Transfer Using Microporous Copper Inverse Opals. Journal of Electronic Packaging, Transactions of the ASME, 2018, 140, .	1.8	11
16	Tailoring Permeability of Microporous Copper Structures through Template Sintering. ACS Applied Materials & Interfaces, 2018, 10, 30487-30494.	8.0	18
17	Enhanced Capillaryâ€Fed Boiling in Copper Inverse Opals via Template Sintering. Advanced Functional Materials, 2018, 28, 1803689.	14.9	46
18	Thermal homeostasis using microstructured phase-change materials: erratum. Optica, 2018, 5, 1155.	9.3	6

#	Article	IF	Citations
19	Dense Vertically Aligned Copper Nanowire Composites as High Performance Thermal Interface Materials. ACS Applied Materials & Interfaces, 2017, 9, 42067-42074.	8.0	51
20	Thermal homeostasis using microstructured phase-change materials. Optica, 2017, 4, 1390.	9.3	60
21	Characterization of the capillary performance of copper inverse opals. , 2016, , .		5
22	Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. Nano Letters, 2016, 16, 2754-2761.	9.1	72
23	Thermal Conduction in Vertically Aligned Copper Nanowire Arrays and Composites. ACS Applied Materials & Interfaces, 2015, 7, 19251-19259.	8.0	99
24	Power density optimization for micro thermoelectric generators. Energy, 2015, 93, 2006-2017.	8.8	76
25	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
26	Thermal conduction in nanoporous copper inverse opal films. , 2014, , .		11
27	Nanoscale conformable coatings for enhanced thermal conduction of carbon nanotube films. , 2012, , .		2