Bladimir Ramos-Alvarado

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8413298/publications.pdf

Version: 2024-02-01

37 papers	1,039 citations	361388 20 h-index	414395 32 g-index
38 all docs	38 docs citations	38 times ranked	1005 citing authors

#	Article	IF	Citations
1	CFD study of liquid-cooled heat sinks with microchannel flow field configurations for electronics, fuel cells, and concentrated solar cells. Applied Thermal Engineering, 2011, 31, 2494-2507.	6.0	147
2	Solidâ€“Liquid Thermal Transport and Its Relationship with Wettability and the Interfacial Liquid Structure. Journal of Physical Chemistry Letters, 2016, 7, 3497-3501.	4.6	88
3	Comparison and optimization of single-phase liquid cooling devices for the heat dissipation of high-power LED arrays. Applied Thermal Engineering, 2013, 59, 648-659.	6.0	73
4	Hydrodynamic slip length as a surface property. Physical Review E, 2016, 93, 023101.	2.1	55
5	Constructal flow distributor as a bipolar plate for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2011, 36, 12965-12976.	7.1	51
6	Ga₂O₃-on-SiC Composite Wafer for Thermal Management of Ultrawide Bandgap Electronics. ACS Applied Materials & Interfaces, 2021, 13, 40817-40829.	8.0	49
7	Numerical investigation of the performance of symmetric flow distributors as flow channels for PEM fuel cells. International Journal of Hydrogen Energy, 2012, 37, 436-448.	7.1	47
8	Multiple concentric spirals for the flow field of a proton exchange membrane fuel cell. Journal of Power Sources, 2011, 196, 8019-8030.	7.8	42
9	On the wettability transparency of graphene-coated silicon surfaces. Journal of Chemical Physics, 2016, 144, 014701.	3.0	42
10	Wettability of graphitic-carbon and silicon surfaces: MD modeling and theoretical analysis. Journal of Chemical Physics, 2015, 143, 044703.	3.0	41
11	Fractal channel manifolds for microjet liquid-cooled heat sinks. International Journal of Heat and Mass Transfer, 2019, 138, 257-266.	4.8	39
12	Hydrodynamic slip in silicon nanochannels. Physical Review E, 2016, 93, 033117.	2.1	33
13	Performance analysis of a proton exchange membrane fuel cell using tree-shaped designs forÂflow distribution. International Journal of Hydrogen Energy, 2013, 38, 14750-14763.	7.1	30
14	Thermal Transport across SiCâ€“Water Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 29179-29186.	8.0	25
15	Experimental characterization of the water transport properties of PEM fuel cells diffusion media. Journal of Power Sources, 2012, 218, 221-232.	7.8	24
16	Experimental investigation of the cooling performance of 3-D printed hybrid water-cooled heat sinks. Applied Thermal Engineering, 2020, 168, 114823.	6.0	24
17	Thermal Conductivity of Î²-Phase Ga₂O₃ and (Al_xGa_{1â€“}_x)₂O₃ Heteroepitaxial Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 38477-38490.	8.0	24
18	Spectral Analysis of the Heat Flow Across Crystalline and Amorphous Siâ€“Water Interfaces. Journal of Physical Chemistry C, 2017, 121, 11380-11389.	3.1	23

#	Article	IF	Citations
19	Wettability transparency and the quasiuniversal relationship between hydrodynamic slip and contact angle. Applied Physics Letters, 2016, 108, .	3.3	22
20	Investigation on the Wetting Behavior of 3C-SiC Surfaces: Theory and Modeling. Journal of Physical Chemistry C, 2018, 122, 7179-7186.	3.1	22
21	Implications of the Interface Modeling Approach on the Heat Transfer across Graphiteâ€“Water Interfaces. Journal of Physical Chemistry C, 2019, 123, 22311-22323.	3.1	22
22	Efficient hybrid microjet liquid cooled heat sinks made of photopolymer resin: thermo-fluid characteristics and entropy generation analysis. International Journal of Heat and Mass Transfer, 2020, 146, 118844.	4.8	20
23	Spectral mapping of thermal transport across SiC-water interfaces. International Journal of Heat and Mass Transfer, 2019, 131, 645-653.	4.8	16
24	Non-equilibrium two-phase model of the air-cathode of a PEM fuel cell based on GDL experimental water transport characteristics. Journal of Power Sources, 2013, 232, 376-388.	7.8	14
25	Investigation into the Atomistic Scale Mechanisms Responsible for the Enhanced Dielectric Response in the Interfacial Region of Polymer Nanocomposites. Journal of Physical Chemistry C, 2020, 124, 11558-11563.	3.1	12
26	Molecular Dynamics Simulations of Wettability, Thermal Transport, and Interfacial Liquid Structuring at the Nanoscale in Polar Solidâ€“Liquid Interfaces. ACS Applied Nano Materials, 2021, 4, 3821-3832.	5.0	12
27	On the assessment of voids in the thermal interface material on the thermal performance of a silicon chip package. Microelectronics Reliability, 2013, 53, 1987-1995.	1.7	10
28	Water wettability of graphene and graphite, optimization of solid-liquid interaction force fields, and insights from mean-field modeling. Journal of Chemical Physics, 2019, 151, 114701.	3.0	10
29	Evaluation of Nonintrusive Active Infrared Thermography Technique to Detect Hidden Solder Ball Defects on Plastic Ball Grid Array Components. Journal of Electronic Packaging, Transactions of the ASME, 2014, 136, .	1.8	6
30	Effects of the Interfacial Modeling Approach on Equilibrium Calculations of Slip Length for Nanoconfined Water in Carbon Slits. Langmuir, 2020, 36, 14772-14781.	3.5	6
31	A molecular dynamics investigation on the effects of electrostatic forces on nanoscale thin film evaporation. International Journal of Heat and Mass Transfer, 2022, 182, 121981.	4.8	3
32	Interfacial Liquid Structuring at SiC-Water Interfaces and its Effects on Heat Transfer. , 2018, , .		2
33	Technical and commercial viability assessment of liquid-cooled heat sinks for a circuit board with discrete heat loads. Applied Thermal Engineering, 2022, 210, 118352.	6.0	2
34	CFD Analysis of Flow and Heat Transfer in a Novel Heat Sink for Electronic Devices. , 2010, , .		1
35	Improving the Performance of a PEMFC by Means of Achieving Uniform Flow Distribution. , 2010, , .		1
36	Irreversibilities reduction of a flow distribution system by means of the EGM methodology. International Journal of Exergy, 2012, 10, 94.	0.4	1

#	Article	IF	Citations
37	Parametric Study of a Symmetric Flow Distributor. , 2009, , .		0