

Jorge L Alvarado

List of Publications by Year in descending order

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63
papers

2,874
citations

304701

22
h-index

214788

47
g-index

63
all docs

63
docs citations

63
times ranked

2790
citing authors

#	ARTICLE	IF	CITATIONS
1	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	897
2	An experimental study on the effect of ultrasonication on viscosity and heat transfer performance of multi-wall carbon nanotube-based aqueous nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5090-5101.	4.8	440
3	Dropwise Condensation on Micro- and Nanostructured Surfaces. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014, 18, 223-250.	2.6	235
4	Thermal performance of microencapsulated phase change material slurry in turbulent flow under constant heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1938-1952.	4.8	158
5	Thermal performance of a novel heat transfer fluid containing multiwalled carbon nanotubes and microencapsulated phase change materials. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 5554-5567.	4.8	72
6	Characterization of supercooling suppression of microencapsulated phase change material by using DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 86, 505-509.	3.6	70
7	Field evaluation of microencapsulated phase change material slurry in ground source heat pump systems. <i>Energy</i> , 2017, 122, 691-700.	8.8	69
8	Performance characteristics of microencapsulated phase change material slurry in a helically coiled tube. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 901-914.	4.8	63
9	Passive cooling systems for cement-based roofs. <i>Building and Environment</i> , 2009, 44, 1869-1875.	6.9	62
10	Numerical Simulations and Experimental Characterization of Heat Transfer From a Periodic Impingement of Droplets. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	48
11	Wetting behavior on hybrid surfaces with hydrophobic and hydrophilic properties. <i>Applied Surface Science</i> , 2014, 290, 59-65.	6.1	48
12	Enhanced thermophysical properties of multiwalled carbon nanotubes based nanofluids. Part 1: Critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 4326-4336.	16.4	48
13	Study of the effects of single and multiple periodic droplet impingements on liquid film heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 449-463.	4.8	47
14	Development of hybrid solar distillation system for essential oil extraction. <i>Renewable Energy</i> , 2017, 113, 22-29.	8.9	45
15	Latent thermal energy storage system using phase change material in corrugated enclosures. <i>Applied Thermal Engineering</i> , 2013, 50, 1008-1014.	6.0	44
16	Thermophysical performance of graphene based aqueous nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 408-417.	4.8	42
17	Droplet contact angle behavior on a hybrid surface with hydrophobic and hydrophilic properties. <i>Applied Physics Letters</i> , 2012, 101, 111605.	3.3	40
18	Heat transfer characteristics of double, triple and hexagonally-arranged droplet train impingement arrays. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 562-575.	4.8	37

#	ARTICLE	IF	CITATIONS
19	Heat transfer analysis of microencapsulated phase change material slurry flow in heated helical coils: A numerical and analytical study. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 872-878.	4.8	32
20	Numerical and experimental investigations of crown propagation dynamics induced by droplet train impingement. <i>International Journal of Heat and Fluid Flow</i> , 2016, 57, 24-33.	2.4	31
21	Passive cooling of cement-based roofs in tropical climates. <i>Energy and Buildings</i> , 2008, 40, 358-364.	6.7	30
22	Emission characteristics of methanol-in-canola oil emulsions in a combustion chamber. <i>Fuel</i> , 2013, 113, 97-106.	6.4	29
23	Laminar Flow Forced Convection Heat Transfer Behavior of a Phase Change Material Fluid in Finned Tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009, 55, 721-738.	2.1	25
24	Recent Progress on the Spectroscopy of Rare Earth Ions in Core-Shell, Nanowires, Nanotubes, and Other Novel Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1126-1137.	0.9	22
25	Laminar Flow Forced Convection Heat Transfer Behavior of a Phase Change Material Fluid in Microchannels. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	19
26	Effects of High Frequency Droplet Train Impingement on Crown Propagation Dynamics and Heat Transfer. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	19
27	Fluid Flow and Heat Transfer Characteristics of Microencapsulated Phase Change Material Slurry in Turbulent Flow. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	17
28	Thermal performance of helical coils with reversed loops and wire coil inserts. <i>International Journal of Heat and Mass Transfer</i> , 2020, 146, 118723.	4.8	17
29	Thermal Performance of Microencapsulated Phase Change Material Slurry in a Coil Heat Exchanger. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	15
30	Thermal and flow characteristics of helical coils with reversed loops. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 670-680.	4.8	14
31	Implication of coughing dynamics on safe social distancing in an indoor environment—A numerical perspective. <i>Building and Environment</i> , 2021, 206, 108280.	6.9	13
32	EFFECTS OF SINGLE AND DOUBLE STREAMS OF DROPLET IMPINGEMENTS ON SURFACE COOLING. <i>Atomization and Sprays</i> , 2014, 24, 875-893.	0.8	12
33	Experimental study on effect of surface vibration on micro textured surfaces with hydrophobic and hydrophilic materials. <i>Applied Surface Science</i> , 2017, 412, 45-51.	6.1	11
34	Effects of High Frequency Droplet Train Impingement on Spreading-Splashing Transition, Film Hydrodynamics and Heat Transfer. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	10
35	Enhanced thermophysical properties of multiwalled carbon nanotubes based nanofluids. Part 2: Experimental verification. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 4337-4344.	16.4	10
36	Hydrodynamic and heat transfer characteristics of droplet train spreading-splashing transition on heated surface. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120500.	4.8	10

#	ARTICLE	IF	CITATIONS
37	Experimental Characterization of Single and Multiple Droplet Impingement on Surfaces Subject to Constant Heat Flux Conditions. , 2010, , .		9
38	Multiple Droplet Impingements on Nanostructured Surfaces for Enhanced Spray Cooling. , 2011, , .		9
39	Symbiotic Circularity in Buildings: An Alternative Path for Valorizing Sheet Metal Waste Stream as Metal Building Facades. Waste and Biomass Valorization, 2020, 11, 7127-7145.	3.4	8
40	Experimental and Numerical Visualization of Droplet-Induced Crown Splashing Dynamics. Journal of Heat Transfer, 2017, 139, .	2.1	6
41	Report on Carbon Nano Material Workshop: Challenges and Opportunities. Nanoscale and Microscale Thermophysical Engineering, 2013, 17, 10-24.	2.6	5
42	Laminar Flow Forced Convection Heat Transfer Behavior of a Phase Change Material Fluid in Microchannels. , 2009, , .		4
43	Development and characterization of a capacitance-based microscale flowmeter. Flow Measurement and Instrumentation, 2009, 20, 81-84.	2.0	4
44	Effects of Screen Laminates on Droplet-Induced Film Hydrodynamics and Surface Heat Transfer. Journal of Heat Transfer, 2016, 138, .	2.1	4
45	Near-Wall Velocimetry in the Impingement-Zones of a Microdroplet and a Round Jet Stream. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	1.5	4
46	Numerical Simulation of Thermal Performance of a High Aspect Ratio Thermal Energy Storage Device. , 2012, , .		2
47	Numerical Simulation of a Microencapsulated Phase Change Material Slurry Flowing in a Helical Coil Heat Exchanger. , 2013, , .		2
48	Thermal Performance of Microchannels with Patterned Super-Hydrophobic Surfaces Under Laminar Flow. Numerical Heat Transfer; Part A: Applications, 2015, 67, 1163-1186.	2.1	2
49	Experimental and Numerical Characterization of Droplet-Induced Spreading-Splashing Transition in Surface Cooling. , 2016, , .		2
50	Laminar Heat Transfer Behavior of a Phase Change Material Fluid in Microchannels With Staggered Pins. Journal of Heat Transfer, 2017, 139, .	2.1	2
51	Real Power Control: MPPT and Pitch Control in a DFIG Based Wind Turbine. , 2020, , .		2
52	Use of Perforation and Mathematical Modeling to Increase Solar-Based Steam Distillation System Efficiency. Journal of Solar Energy Engineering, Transactions of the ASME, 2021, 143, .	1.8	2
53	Film dynamics relevant to spray cooling. , 2010, , .		2
54	Thermal performance of microencapsulated phase change material slurry in helical coils with reversed loops and wire coil inserts. Experimental Heat Transfer, 2023, 36, 984-1011.	3.2	2

#	ARTICLE	IF	CITATIONS
55	COST, QUALITY, AND ENVIRONMENTAL TRADEOFFS FOR PRINTED CIRCUIT BOARD ASSEMBLY. <i>Engineering Economist</i> , 2000, 45, 206-231.	1.1	1
56	Characterization of Thermal Properties and Heat Transfer Behavior of Microencapsulated Phase Change Material Slurry and Multiwall Carbon Nanotubes in Aqueous Suspension. , 2007, , 1771.		1
57	Laminar Flow Forced Convection Heat Transfer Behavior of Phase Change Material Fluid in Microchannels With Staggered Pins. , 2010, , .		0
58	Experimental Investigation of Microexplosion Phenomena in Emulsified Vegetable Oil-Methanol Blends. , 2012, , .		0
59	Characterization and Combustion Performance of Corn Oil-Based Biofuel Blends. , 2012, , .		0
60	Thermal Performance of Poly Alpha Olefin Nanofluid With Spherical and Non-Spherical Nanoparticles. , 2012, , .		0
61	An Experimental Study of Heat Transfer Characteristics of Microencapsulated Phase Change Material Slurry in a Coil Heat Exchanger. , 2013, , .		0
62	Use of Differential Scanning Calorimetry and X-Ray Diffraction as Experimental Tools to Understand How Nucleating Agent Concentration Affects Supercooling in Microencapsulated Phase Change Materials. , 2005, , .		0
63	Characterization of the Flow and Surface Temperature Around Multiple Vortex Generators. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2022, 144, .	1.5	0