Huihe Qiu

List of Publications by Year in descending order

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257450 233421 2,336 106 24 45 h-index citations g-index papers 111 111 111 1902 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Energy consumption modelling of a passive hybrid system for office buildings in different climates. Energy, 2022, 239, 121914.	8.8	14
2	Hybrid nanofluid spray cooling performance and its residue surface effects: Toward thermal management of high heat flux devices. Applied Thermal Engineering, 2022, 211, 118454.	6.0	18
3	Effects of non-wetting fraction and pitch distance in flow boiling heat transfer in a wettability-patterned microchannel. International Journal of Heat and Mass Transfer, 2022, 190, 122753.	4.8	13
4	Droplet Evaporation Dynamics on Hydrophobic Network Surfaces. Langmuir, 2022, 38, 6395-6403.	3.5	8
5	Implications of dragonfly's muscle control on flapping kinematics and aerodynamics. Physics of Fluids, 2022, 34, .	4.0	3
6	Copper-alumina hybrid nanofluid droplet phase change dynamics over heated plain copper and porous residue surfaces. International Journal of Thermal Sciences, 2022, 182, 107795.	4.9	0
7	Implications of wing pitching and wing shape on the aerodynamics of a dragonfly. Journal of Fluids and Structures, 2021, 101, 103208.	3.4	10
8	The Importance of Flapping Kinematic Parameters in the Facilitation of the Different Flight Modes of Dragonflies. Journal of Bionic Engineering, 2021, 18, 419-427.	5.0	11
9	Droplet impact dynamics and heat transfer on nanostructured doubly reentrant cavity under freezing temperature. Physics of Fluids, 2021, 33, .	4.0	7
10	Microstructured wettability pattern for enhancing thermal performance in an ultrathin vapor chamber. Case Studies in Thermal Engineering, 2021, 25, 100906.	5.7	37
11	Effects of gradual flexibility and trailing edge shape on propulsive performance of pitching fins. Physics of Fluids, 2021, 33, .	4.0	5
12	Field investigation of a photonic multi-layered TiO2 passive radiative cooler in sub-tropical climate. Renewable Energy, 2020, 146, 44-55.	8.9	97
13	Bio-inspired patterned surface for submicron particle deposition in a fully developed turbulent duct. Building Simulation, 2020, 13, 1111-1123.	5.6	2
14	Effect of gas ionization on interphase interaction of adjacent oppositely charged droplets. Experiments in Fluids, 2020, 61, 1.	2.4	1
15	Development of ultrathin thermal ground plane with multiscale micro/nanostructured wicks. Case Studies in Thermal Engineering, 2020, 22, 100738.	5.7	13
16	Evaporation and wetting behavior of silver-graphene hybrid nanofluid droplet on its porous residue surface for various mixing ratios. International Journal of Heat and Mass Transfer, 2020, 153, 119618.	4.8	31
17	Aerodynamic performance of a free-flying dragonflyâ€"A span-resolved investigation. Physics of Fluids, 2020, 32, 041903.	4.0	22
18	10.1063/1.5145199.1., 2020,,.		0

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19	Subcooled flow boiling heat transfer in a microchannel with chemically patterned surfaces. International Journal of Heat and Mass Transfer, 2019, 140, 587-597.	4.8	29
20	Flow Over the Tip Region of a Flexible Cantilever Wing With the Effect of Angle of Attack. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	1
21	Droplet impingement on nano-textured superhydrophobic surface: Experimental and numerical study. Applied Surface Science, 2019, 491, 160-170.	6.1	46
22	Experimental and theoretical study of a water-vapor chamber thermal diode. International Journal of Heat and Mass Transfer, 2019, 138, 173-183.	4.8	26
23	Editorial for The 10th International Symposium on Measurement Techniques for Multiphase Flows (ISMTMF 2017). Measurement Science and Technology, 2019, 30, 020101.	2.6	0
24	Heat transfer characteristics of plug-in oscillating heat pipe with binary-fluid mixtures for electric vehicle battery thermal management. International Journal of Heat and Mass Transfer, 2019, 135, 746-760.	4.8	82
25	Experimental and numerical investigation of submicron particle deposition enhancement by patterned surface. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042018.	0.6	0
26	High-performance icephobic droplet rebound surface with nanoscale doubly reentrant structure. International Journal of Heat and Mass Transfer, 2019, 133, 341-351.	4.8	26
27	Experimental Investigation on Silver-Graphene Hybrid Nanofluid Droplet Evaporation and Wetting Characteristics of its Nanostructured Droplet Residue. , 2019, , .		1
28	Effects of flexibility and aspect ratio on the aerodynamic performance of flapping wings. Bioinspiration and Biomimetics, 2018, 13, 036001.	2.9	34
29	Bubble Dynamics and Heat Transfer During Pool Boiling on Wettability Patterned Surfaces. Heat Transfer Engineering, 2018, 39, 663-671.	1.9	15
30	Aerodynamic characteristics along the wing span of a dragonfly <i>Pantala Flavescens</i> Liping Span of a dragonfly Lipi	1.7	17
31	Multicomponent Droplet Evaporation on Chemical Micro-Patterned Surfaces. Scientific Reports, 2017, 7, 41897.	3.3	33
32	Unsteady Vortex Interactions for Performance Enhancement of a Free Flying Dragonfly. , 2017, , .		1
33	Microfluidic production of nanoscale perfluorocarbon droplets as liquid contrast agents for ultrasound imaging. Lab on A Chip, 2017, 17, 3504-3513.	6.0	27
34	Effects of Aspect Ratio on Vortex Dynamics of a Rotating Wing. AIAA Journal, 2017, 55, 4074-4082.	2.6	12
35	Aggregation-Induced Emission Luminogen-Based Direct Visualization of Concentration Gradient Inside an Evaporating Binary Sessile Droplet. ACS Applied Materials & Evaporating Binary Binary Sessile Droplet. ACS Applied Materials & Evaporating Binary	8.0	18
36	Flow boiling heat transfer in wettability patterned microchannels. , 2017, , .		2

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37	Measurements of interfacial dynamics of gas–liquid displacement in a capillary. Measurement Science and Technology, 2016, 27, 065204.	2.6	4
38	Continuous-Flow Electrokinetic-Assisted Plasmapheresis by Using Three-Dimensional Microelectrodes Featuring Sidewall Undercuts. Analytical Chemistry, 2016, 88, 5197-5204.	6.5	16
39	Internal flow patterns of an evaporating multicomponent droplet on a flat surface. International Journal of Thermal Sciences, 2016, 100, 10-19.	4.9	40
40	Bubble dynamics and heat transfer on a wettability patterned surface. International Journal of Heat and Mass Transfer, 2015, 88, 544-551.	4.8	36
41	Noncontact rebound and fission of oppositely charged droplets. Experiments in Fluids, 2015, 56, 1.	2.4	14
42	Effects of aspect ratio on flapping wing aerodynamics in animal flight. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 776-786.	3.4	27
43	Experimental investigation of a novel asymmetric heat spreader with nanostructure surfaces. Experimental Thermal and Fluid Science, 2014, 52, 197-204.	2.7	32
44	An asymmetrical vapor chamber with multiscale micro/nanostructured surfaces. International Communications in Heat and Mass Transfer, 2014, 58, 40-44.	5.6	36
45	Coalescence and Breakup of Oppositely Charged Droplets. Scientific Reports, 2014, 4, 7123.	3.3	26
46	Droplet pinch-off in acoustically actuated flow-focusing devices. Journal of Micromechanics and Microengineering, 2012, 22, 125003.	2.6	9
47	A nanostructure patterned heat spreader for on-chip thermal management of high-power LEDs. , 2012, ,		1
48	Thermal Bubble Dynamics Under the Effects of an Acoustic Field. Heat Transfer Engineering, 2011, 32, 636-647.	1.9	6
49	Characterization of acoustic droplet formation in a microfluidic flow-focusing device. Physical Review E, 2011, 84, 066310.	2.1	19
50	Effects of acoustic vibration on microheater-induced vapor bubble incipience in a microchannel. Journal of Micromechanics and Microengineering, 2011, 21, 105015.	2.6	5
51	Two-dimensional fringe probing of transient liquid temperatures in a mini space. Review of Scientific Instruments, 2011, 82, 055104.	1.3	0
52	Do surfaces with mixed hydrophilic and hydrophobic areas enhance pool boiling?. Applied Physics Letters, 2010, 97, .	3.3	352
53	Acoustically driven micro-thermal-bubble dynamics in a microspace. Journal of Micromechanics and Microengineering, 2010, 20, 095012.	2.6	6
54	Acoustic microstreaming for droplet breakup in a microflow-focusing device. Applied Physics Letters, 2010, 97, 133111.	3.3	11

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55	Bubble dynamics under a horizontal micro heater array. Journal of Micromechanics and Microengineering, 2009, 19, 095008.	2.6	5
56	2D fringe probing of liquid film dynamics of a plug bubble in a micropipe. Measurement Science and Technology, 2009, 20, 025402.	2.6	4
57	3D Flow Dynamics in a Patterned Round Microchannel. , 2009, , .		1
58	Acoustic Driven Micro Thermal Bubble Dynamics in a Microchannel., 2009,,.		0
59	Thermal Bubble Dynamics Under the Effect of Acoustic Vibration. , 2009, , .		0
60	Investigation of the patterned surface modification on 3D vortex flow generation in a micropipe. Journal of Micromechanics and Microengineering, 2008, 18, 115030.	2.6	8
61	Characterization of Variable Thermal Contact Resistance in Rapid Contact Solidification Utilizing Novel Ultrasound Technique. Journal of Heat Transfer, 2007, 129, 1036-1045.	2.1	3
62	The 9th Asian Symposium on Visualization. Journal of Visualization, 2007, 10, 405-410.	1.8	0
63	Prediction of Solder Bump Formation in Solder Jet Packaging Process. IEEE Transactions on Components and Packaging Technologies, 2006, 29, 486-493.	1.3	7
64	Measurements of multicomponent microdroplet evaporation by using Rainbow Refractometer and PDA. Experiments in Fluids, 2006, 40, 60-69.	2.4	15
65	The Impact of Thermal Contact Conductance on the Spreading and Solidification of a Droplet on a Substrate. Heat Transfer Engineering, 2006, 27, 68-80.	1.9	8
66	Integrating micromachined fast response temperature sensor array in a glass microchannel. Sensors and Actuators A: Physical, 2005, 122, 189-195.	4.1	23
67	Experimental study on rapid solidification process using a novel ultrasound technique. Experimental Thermal and Fluid Science, 2005, 30, 17-26.	2.7	7
68	Fringe probing of liquid film thickness of a plug bubble in a micropipe. Measurement Science and Technology, 2005, 16, 594-600.	2.6	17
69	Measurements of interfacial film thickness for immiscible liquid–liquid slug/droplet flows. Measurement Science and Technology, 2005, 16, 1374-1380.	2.6	9
70	Modeling of Substrate Remelting, Flow, and Resolidification in Microcasting. Numerical Heat Transfer; Part A: Applications, 2005, 48, 987-1008.	2.1	11
71	Fringe probing of gas–liquid interfacial film in a microcapillary tube. Applied Optics, 2005, 44, 4648.	2.1	2
72	The impact of high order refraction on optical microbubble sizing in multiphase flows. Experiments in Fluids, 2004, 36, 100-107.	2.4	7

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73	Experimental investigation of droplet dynamics and heat transfer in spray cooling. Experimental Thermal and Fluid Science, 2003, 27, 829-838.	2.7	182
74	Eliminating high-order scattering effects in optical microbubble sizing. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 690.	1.5	6
75	Eliminating background noise effect in micro-resolution particle image velocimetry. Applied Optics, 2002, 41, 6849.	2.1	10
76	Interfacial thermal conductance in rapid contact solidification process. International Journal of Heat and Mass Transfer, 2002, 45, 2043-2053.	4.8	24
77	Fringe probing of an evaporating microdroplet on a hot surface. International Journal of Heat and Mass Transfer, 2002, 45, 4141-4150.	4.8	7
78	The effect of second order refraction on optical bubble sizing in multiphase flows. Journal of Mechanical Science and Technology, 2001, 15, 1801-1807.	0.4	2
79	A novel optical method in micro drop deformation measurements. Optics and Lasers in Engineering, 2001, 35, 187-198.	3.8	3
80	Experiments on Vertical Turbulent Plane Jets in Water of Finite Depth. Journal of Engineering Mechanics - ASCE, 2001, 127, 18-26.	2.9	24
81	Optimization of optical particle sizing in multiphase flows. Optical Engineering, 2001, 40, 2586.	1.0	1
82	Effect of refractive index in optical particle sizing by using spatial frequency method. Optics Communications, 2000, 178, 199-210.	2.1	3
83	High accuracy optical particle sizing in phase-Doppler anemometry. Measurement Science and Technology, 2000, 11, 142-151.	2.6	9
84	High-resolution optical particle sizing in an optimized orientation. Optical Engineering, 1999, 38, 2104.	1.0	3
85	Method of phase-Doppler anemometry free from the measurement-volume effect. Applied Optics, 1999, 38, 2737.	2.1	18
86	Measuring the progression of foreign-body reaction to silicone implants using in vivo MR microscopy. IEEE Transactions on Biomedical Engineering, 1998, 45, 921-927.	4.2	3
87	Experimental studies of spray evaporation in turbulent flow. International Journal of Heat and Fluid Flow, 1998, 19, 10-22.	2.4	92
88	Optimization of optical parameters for particle sizing in multiphase flows. Optics and Lasers in Engineering, 1998, 30, 3-15.	3.8	7
89	Minimum deviation of spatial frequency in large-particle sizing. Applied Optics, 1998, 37, 6787.	2.1	8
90	Automated feedback control of body temperature for small animal studies with MR microscopy. IEEE Transactions on Biomedical Engineering, 1997, 44, 1107-1113.	4.2	31

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91	A fourier optics method for the simulation of measurement-volume-effect by the slit constraint. Particle and Particle Systems Characterization, 1997, 14, 295-303.	2.3	3
92	Particle concentration measurements by phase-doppler anemometry in complex dispersed two-phase flows. Experiments in Fluids, 1995, 18, 187-198.	2.4	53
93	Two novel Doppler signal detection methods for laser Doppler and phase Doppler anemometry. Measurement Science and Technology, 1994, 5, 769-778.	2.6	20
94	New Generation of Phase-Doppler Instruments for particle velocity, size and concentration measurements. Particle and Particle Systems Characterization, 1994, 11, 43-54.	2.3	24
95	Characterization of particle-laden, confined swirling flows by phase-doppler anemometry and numerical calculation. International Journal of Multiphase Flow, 1993, 19, 1093-1127.	3.4	89
96	Spray Evaporation in Turbulent Flow: Numerical Calculations and Detailed Experiments by Phase-Doppler Anemometry. Oil & Gas Science & Technology, 1993, 48, 677-695.	0.2	8
97	A reliable method for determining the measurement volume size and particle mass fluxes using phase-Doppler anemometry. Experiments in Fluids, 1992, 13, 393-404.	2.4	87
98	Detailed measurements in a swirling particulate two-phase flow by a phase-Doppler anemometer. International Journal of Heat and Fluid Flow, 1991, 12, 20-28.	2.4	135
99	High-resolution data processing for phase-Doppler measurements in a complex two-phase flow. Measurement Science and Technology, 1991, 2, 455-463.	2.6	38
100	Bubble Dynamics and Flow Boiling Characteristics in a Chemically Patterned Microchannel. , 0, , .		4
101	Thermal Rectification Enhancement of Coalescence–Jumping Phase Transition Thermal Diodes using Cu–Al 2 O 3 Hybrid Nanofluids. Advanced Engineering Materials, 0, , 2100958.	3.5	1
102	Droplet Dynamics and Heat Transfer on Wettability Patterned Surfaces. , 0, , .		0
103	Aerodynamic Analysis of a Bioinspired Multilayer Flexible Wing. , 0, , .		0
104	Interfacial Flows of Contact Line Dynamics and Liquid Displacement in a Circular Microchannel., 0,,.		0
105	Droplet Dynamics on Nanostructured Doubly Reentrant Surfaces. , 0, , .		0
106	Multiscale Micro/Nanostructured Heat Spreaders for Thermal Management of Power Electronics. , 0, , .		1