

Wan-Yuan Shi

List of Publications by Year in descending order

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32
papers

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43
docs citations

43
times ranked

228
citing authors

#	ARTICLE	IF	CITATIONS
1	Traveling waves inside Bård-Marangoni cells induced by evaporation of a volatile liquid layer. International Journal of Heat and Mass Transfer, 2022, 182, 121963.	2.5	4
2	Marangoni convection instability inside an evaporating droplet on an inclined substrate. International Journal of Heat and Mass Transfer, 2022, 183, 122050.	2.5	4
3	Influence of eddy effect of coils on convection and deformation of electromagnetically levitated droplet. International Communications in Heat and Mass Transfer, 2022, 130, 105766.	2.9	1
4	Instabilities of thermocapillary-buoyant-Coriolis flow of medium Prandtl fluid in a slowly rotating annular pool. International Communications in Heat and Mass Transfer, 2022, 130, 105801.	2.9	4
5	Magnetic manipulation of diamagnetic droplet on slippery liquid-infused porous surface. Physical Review Fluids, 2022, 7, .	1.0	6
6	Marangoni convection instabilities in an evaporating droplet on a non-isothermal substrate. International Journal of Heat and Mass Transfer, 2022, 195, 123140.	2.5	3
7	Hydrothermal waves in sessile droplets evaporating at a constant contact angle mode. International Journal of Heat and Mass Transfer, 2021, 172, 121131.	2.5	10
8	Marangoni convection instability in an evaporating droplet deposited on volatile liquid layer. International Journal of Heat and Mass Transfer, 2021, 171, 121055.	2.5	6
9	Investigation on synergistic effect of CuCl ₂ and FeCl ₃ impregnated into fly ash on mercury removal by experiment and density functional theory. Applied Surface Science, 2021, 565, 150484.	3.1	12
10	Influence of thermal properties on hydrothermal waves in evaporating sessile droplets. Physics of Fluids, 2021, 33, 102107.	1.6	6
11	Transition of Marangoni convection instability patterns during evaporation of sessile droplet at constant contact line mode. International Journal of Heat and Mass Transfer, 2020, 148, 119138.	2.5	20
12	Effect of droplet deformation on determination of thermal conductivity in modulated laser calorimetry. International Journal of Heat and Mass Transfer, 2020, 163, 120501.	2.5	3
13	Spontaneous thermocapillary motion of condensation droplets. Applied Physics Letters, 2020, 116, 243703.	1.5	10
14	Marangoni instability induced by evaporation in well-defined non-spherical sessile droplet. International Journal of Heat and Mass Transfer, 2019, 141, 168-179.	2.5	13
15	Bård-Marangoni instability in sessile droplet evaporating at constant contact angle mode on heated substrate. International Journal of Heat and Mass Transfer, 2019, 134, 784-795.	2.5	39
16	Longitudinal roll patterns of Marangoni instability in an easily volatile sessile droplet evaporating at constant contact angle mode. International Journal of Heat and Mass Transfer, 2019, 134, 1283-1291.	2.5	21
17	Effects of vertical, horizontal and rotational magnetic fields on convection in an electromagnetically levitated droplet. International Journal of Heat and Mass Transfer, 2019, 130, 787-796.	2.5	8
18	Influence of substrate temperature on Marangoni convection instabilities in a sessile droplet evaporating at constant contact line mode. International Journal of Heat and Mass Transfer, 2019, 131, 1270-1278.	2.5	36

#	ARTICLE	IF	CITATIONS
19	Numerical investigation on frequency shift of an electromagnetically levitated molten droplet. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 69-77.	2.5	15
20	Marangoni convection instability in a sessile droplet with low volatility on heated substrate. <i>International Journal of Thermal Sciences</i> , 2017, 117, 274-286.	2.6	42
21	Marangoni Convection Instabilities Induced by Evaporation of Liquid Layer in an Open Rectangular Pool. <i>Microgravity Science and Technology</i> , 2017, 29, 91-96.	0.7	11
22	Thermocapillary flow instabilities of medium Prandtl number liquid in rotating annular pools. <i>International Journal of Thermal Sciences</i> , 2017, 120, 233-243.	2.6	21
23	Thermocapillary convection in a differentially heated two-layer annular system with and without rotation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 684-689.	2.5	5
24	Influence of Coil Angle Arrangement on Dynamic Deformation and Stability of Molten Droplet in Electromagnetic Levitation System. <i>ISIJ International</i> , 2016, 56, 50-56.	0.6	12
25	Influence of Vertical Static Magnetic Field on Behavior of Rising Single Bubble in a Conductive Fluid. <i>ISIJ International</i> , 2016, 56, 195-204.	0.6	8
26	The influence of Marangoni effect on flow and deformation of an electromagnetically levitated molten droplet under static magnetic fields. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 629-636.	2.5	18
27	The Influence of Eddy Effect of Coils on Flow and Temperature Fields of Molten Droplet in Electromagnetic Levitation Device. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1895-1901.	1.0	19
28	Linear-stability Analysis of Thermocapillary Flow in an Annular Two-layer System with Upper Rigid Wall. <i>Microgravity Science and Technology</i> , 2011, 23, 43-48.	0.7	8
29	Numerical Simulation of Thermocapillary Convection in a Shallow Rectangular Cavity Under the Action of Combining Horizontal Temperature Gradient with Vertical Heat Flux. <i>Microgravity Science and Technology</i> , 2010, 22, 361-367.	0.7	4
30	Stability of Thermocapillary Convection in Annular Pools with Low Prandtl Number Fluid. <i>Microgravity Science and Technology</i> , 2009, 21, 283-287.	0.7	8
31	Effect of crystal rotation on thermocapillary flow in a shallow molten silicon pool. <i>Microgravity Science and Technology</i> , 2007, 19, 163-164.	0.7	2
32	Three-dimensional thermocapillary buoyancy flow of silicone oil in a differentially heated annular pool. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 872-880.	2.5	81