

Qi Kang

List of Publications by Year in descending order

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43
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43
times ranked

183
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition to chaos in thermocapillary convection. International Journal of Heat and Mass Transfer, 2013, 57, 457-464.	2.5	38
2	The effects of geometry and heating rate on thermocapillary convection in the liquid bridge. Journal of Fluid Mechanics, 2019, 881, 951-982.	1.4	37
3	Thermocapillary Convection Experiment Facility of an open Cylindrical Annuli for SJ-10 Satellite. Microgravity Science and Technology, 2016, 28, 123-132.	0.7	25
4	The volume ratio effect on flow patterns and transition processes of thermocapillary convection. Journal of Fluid Mechanics, 2019, 868, 560-583.	1.4	24
5	Space experimental study on wave modes under instability of thermocapillary convection in liquid bridges on Tiangong-2. Physics of Fluids, 2020, 32, .	1.6	22
6	Ground experiment on the instability of buoyant-thermocapillary convection in large-scale liquid bridge with large Prandtl number. International Journal of Heat and Mass Transfer, 2017, 108, 2107-2119.	2.5	19
7	Surface configurations and wave patterns of thermocapillary convection onboard the SJ10 satellite. Physics of Fluids, 2019, 31, 044105.	1.6	19
8	The critical condition and oscillation transition characteristics of thermocapillary convection in the space experiment on SJ-10 satellite. International Journal of Heat and Mass Transfer, 2019, 135, 479-490.	2.5	18
9	Space experimental studies of microgravity fluid science in China. Science Bulletin, 2009, 54, 4035-4048.	1.7	16
10	Capillary driven flow in oval tubes under microgravity. Physics of Fluids, 2021, 33, .	1.6	15
11	Capillary Rise of Liquid in Concentric Annuli Under Microgravity. Microgravity Science and Technology, 2022, 34, 1.	0.7	15
12	Characteristics of surface oscillation in thermocapillary convection. Experimental Thermal and Fluid Science, 2011, 35, 1444-1450.	1.5	14
13	Study of Capillary Driven Flow in an Interior Corner of Rounded Wall Under Microgravity. Microgravity Science and Technology, 2015, 27, 193-205.	0.7	14
14	A peculiar bifurcation transition route of thermocapillary convection in rectangular liquid layers. Experimental Thermal and Fluid Science, 2017, 88, 8-15.	1.5	14
15	Design of an Active Disturbance Rejection Control for Drag-Free Satellite. Microgravity Science and Technology, 2019, 31, 31-48.	0.7	14
16	An experimental research on surface oscillation of buoyant-thermocapillary convection in open cylindrical annuli. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 681-686.	1.5	13
17	Study on propellant management device in plate surface tension tanks. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1498-1508.	1.5	12
18	Dual confocal laser-induced fluorescence/moveable contactless conductivity detector for capillary electrophoresis microchip. Microsystem Technologies, 2009, 15, 881-885.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Oscillation Transition Routes of Buoyant-Thermocapillary Convection in Annular Liquid Layers. <i>Microgravity Science and Technology</i> , 2018, 30, 865-876.	0.7	11
20	Characters of surface deformation and surface wave in thermal capillary convection. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 601-610.	0.9	10
21	Oscillatory and Chaotic Buoyant-Thermocapillary Convection in the Large-Scale Liquid Bridge. <i>Chinese Physics Letters</i> , 2017, 34, 074703.	1.3	10
22	Ground performance tests and evaluation of RF ion microthrusters for Taiji-1 satellite. <i>International Journal of Modern Physics A</i> , 2021, 36, 2140014.	0.5	10
23	Instabilities of thermocapillary-buoyancy convection in open rectangular liquid layers. <i>Chinese Physics B</i> , 2017, 26, 114703.	0.7	9
24	The drag-free control design and in-orbit experimental results of "Taiji-1". <i>International Journal of Modern Physics A</i> , 2021, 36, 2140019.	0.5	9
25	Experimental and numerical study on capillary flow along deflectors in plate surface tension tanks in microgravity environment. <i>AIP Advances</i> , 2019, 9, .	0.6	8
26	Experimental research on thermocapillary migration of drops by using digital holographic interferometry. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	7
27	Academician Wen-Rui Hu " Eminent Pioneer and Prominent Leader of Microgravity Science in China. <i>Microgravity Science and Technology</i> , 2022, 34, 19.	0.7	6
28	Space experimental investigation on thermocapillary migration of bubbles. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 894-904.	0.2	5
29	Experimental Research on Thermocapillary-Buoyancy Migration Interaction of Axisymmetric Two Drops by Using Digital Holographic Interferometry. <i>Microgravity Science and Technology</i> , 2018, 30, 183-193.	0.7	5
30	Behavior of a liquid drop in a rounded corner: Different contact angles. <i>AIP Advances</i> , 2019, 9, 085203.	0.6	4
31	Wavenumber Selection by Bénard-Marangoni Convection at High Supercritical Number. <i>Chinese Physics Letters</i> , 2017, 34, 054702.	1.3	4
32	Study on flow characteristics of solid/liquid system in lysozyme crystal growth. <i>Science Bulletin</i> , 2007, 52, 1196-1204.	1.7	3
33	Transition to Chaos of Buoyant-Thermocapillary Convection in Large-Scale Liquid Bridges. <i>Microgravity Science and Technology</i> , 2020, 32, 217-227.	0.7	3
34	Machine learning method for the supplement, correction, and prediction of the nonlinear dynamics in pattern formation. <i>Physics of Fluids</i> , 2021, 33, 024110.	1.6	3
35	Fabrication of externally wetted emitter for ionic liquid electrospray thruster by low-speed wire cutting combined with electrochemical etching. <i>AIP Advances</i> , 2021, 11, .	0.6	3
36	Study on buoyancy convection phenomenon in the crystal growth process. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 2367-2372.	0.9	2

#	ARTICLE	IF	CITATIONS
37	The Payload Development and the Experiments for Studying Thermocapillary Convection in TG-2 Liquid Bridge. <i>Microgravity Science and Technology</i> , 2021, 33, 1.	0.7	2
38	Study on the emitter infiltration of needle-capillary ionic liquid electrospray thruster. <i>AIP Advances</i> , 2021, 11, 035234.	0.6	2
39	Defects of BÄ©nard cell on a propagating front. <i>Physics of Fluids</i> , 2020, 32, 024107.	1.6	1
40	Experimental Study on the Effects of Discharge Chamber Length on 5Äcm Radio-Frequency Ion Thruster. <i>Microgravity Science and Technology</i> , 2020, 32, 513-520.	0.7	1
41	Thermocapillary Convection Space Experiment on the SJ-10 Recoverable Satellite. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	1
42	Study on Thermocapillary Convection in an Annular Liquid Pool. <i>Research for Development</i> , 2019, , 101-127.	0.2	0
43	Study on the electrowetting and beam current characteristics of externally wetted ionic liquid electrospray thruster. <i>AIP Advances</i> , 2021, 11, 125030.	0.6	0