

Li Duan

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary Rise of Liquid in Concentric Annuli Under Microgravity. <i>Microgravity Science and Technology</i> , 2022, 34, 1.	0.7	15
2	Effect of volume ratio on thermocapillary convection in annular liquid pools in space. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107707.	2.6	4
3	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
4	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
5	Capillary driven flow in oval tubes under microgravity. <i>Physics of Fluids</i> , 2021, 33, .	1.6	15
6	Study on the emitter infiltration of needle-capillary ionic liquid electrospray thruster. <i>AIP Advances</i> , 2021, 11, 035234.	0.6	2
7	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
8	Study on propellant management device in plate surface tension tanks. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 1498-1508.	1.5	12
9	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
10	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
11	Defects of BÃ©nard cell on a propagating front. <i>Physics of Fluids</i> , 2020, 32, 024107.	1.6	1
12	Space experimental study on wave modes under instability of thermocapillary convection in liquid bridges on Tiangong-2. <i>Physics of Fluids</i> , 2020, 32, .	1.6	22
13	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
14	Experimental Study on the Effects of Discharge Chamber Length on 5Ãcm Radio-Frequency Ion Thruster. <i>Microgravity Science and Technology</i> , 2020, 32, 513-520.	0.7	1
15	Thermocapillary Convection Space Experiment on the SJ-10 Recoverable Satellite. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	1
16	The effects of geometry and heating rate on thermocapillary convection in the liquid bridge. <i>Journal of Fluid Mechanics</i> , 2019, 881, 951-982.	1.4	37
17	Behavior of a liquid drop in a rounded corner: Different contact angles. <i>AIP Advances</i> , 2019, 9, 085203.	0.6	4
18	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

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19	Surface configurations and wave patterns of thermocapillary convection onboard the SJ10 satellite. <i>Physics of Fluids</i> , 2019, 31, 044105.	1.6	19
20	The volume ratio effect on flow patterns and transition processes of thermocapillary convection. <i>Journal of Fluid Mechanics</i> , 2019, 868, 560-583.	1.4	24
21	The critical condition and oscillation transition characteristics of thermocapillary convection in the space experiment on SJ-10 satellite. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 479-490.	2.5	18
22	Design of an Active Disturbance Rejection Control for Drag-Free Satellite. <i>Microgravity Science and Technology</i> , 2019, 31, 31-48.	0.7	14
23	Study on Thermocapillary Convection in an Annular Liquid Pool. <i>Research for Development</i> , 2019, , 101-127.	0.2	0
24	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
25	Oscillation Transition Routes of Buoyant-Thermocapillary Convection in Annular Liquid Layers. <i>Microgravity Science and Technology</i> , 2018, 30, 865-876.	0.7	11
26	Ground experiment on the instability of buoyant-thermocapillary convection in large-scale liquid bridge with large Prandtl number. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 2107-2119.	2.5	19
27	A peculiar bifurcation transition route of thermocapillary convection in rectangular liquid layers. <i>Experimental Thermal and Fluid Science</i> , 2017, 88, 8-15.	1.5	14
28	Instabilities of thermocapillary buoyancy convection in open rectangular liquid layers. <i>Chinese Physics B</i> , 2017, 26, 114703.	0.7	9
29	Oscillatory and Chaotic Buoyant-Thermocapillary Convection in the Large-Scale Liquid Bridge. <i>Chinese Physics Letters</i> , 2017, 34, 074703.	1.3	10
30	Wavenumber Selection by Bénard-Marangoni Convection at High Supercritical Number. <i>Chinese Physics Letters</i> , 2017, 34, 054702.	1.3	4
31	Thermocapillary Convection Experiment Facility of an open Cylindrical Annuli for SJ-10 Satellite. <i>Microgravity Science and Technology</i> , 2016, 28, 123-132.	0.7	25
32	Experimental research on thermocapillary migration of drops by using digital holographic interferometry. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	7
33	Study of Capillary Driven Flow in an Interior Corner of Rounded Wall Under Microgravity. <i>Microgravity Science and Technology</i> , 2015, 27, 193-205.	0.7	14
34	An experimental research on surface oscillation of buoyant-thermocapillary convection in open cylindrical annuli. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2014, 30, 681-686.	1.5	13
35	Transition to chaos in thermocapillary convection. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 457-464.	2.5	38
36	Characteristics of surface oscillation in thermocapillary convection. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 1444-1450.	1.5	14

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37	Study on buoyancy convection phenomenon in the crystal growth process. Science in China Series D: Earth Sciences, 2009, 52, 2367-2372.	0.9	2
38	Space experimental studies of microgravity fluid science in China. Science Bulletin, 2009, 54, 4035-4048.	1.7	16
39	Space experimental investigation on thermocapillary migration of bubbles. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 894-904.	0.2	5
40	Optical diagnostic and modeling solution growth process of sodium chlorate crystals. Applied Mathematics and Mechanics (English Edition), 2006, 27, 1177-1184.	1.9	2
41	Characters of surface deformation and surface wave in thermal capillary convection. Science in China Series D: Earth Sciences, 2006, 49, 601-610.	0.9	10