Shuang Liu

List of Publications by Year
in descending order

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24	371	933447 10	794594 19
papers	citations	h-index	g-index

24	24	24	353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of radius ratio on annular centrifugal Rayleighâ€“BÃ©nard convection. Journal of Fluid Mechanics, 2022, 930, .	3.4	7
2	Dynamics of finite-size spheroids in turbulent flow: the roles of flow structures and particle boundary layers. Journal of Fluid Mechanics, 2022, 939, .	3.4	1
3	Spectra and structure functions of the temperature and velocity fields in supergravitational thermal turbulence. Physics of Fluids, 2022, 34, .	4.0	9
4	Rotational dynamics of bottom-heavy rods in turbulence from experiments and numerical simulations. Theoretical and Applied Mechanics Letters, 2021, 11, 100227.	2.8	4
5	High-throughput injectionâ€“acceleration of electron bunches from a linear accelerator to a laser wakefield accelerator. Nature Physics, 2021, 17, 801-806.	16.7	8
6	Lagrangian dynamics and heat transfer in porous-media convection. Journal of Fluid Mechanics, 2021, 917, .	3.4	4
7	Development of a seven-cell S-band standing-wave RF-deflecting cavity for Tsinghua Thomson scattering X-ray source. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	4
8	Tunable Plasma Linearizer for Compensation of Nonlinear Energy Chirp. Physical Review Applied, 2021, 16, .	3.8	1
9	Radius ratio dependency of the instability of fully compressible convection in rapidly rotating spherical shells. Journal of Fluid Mechanics, 2021, 925, .	3.4	1
10	Heat transfer and flow structure of two-dimensional thermal convection over ratchet surfaces. Journal of Hydrodynamics, 2021, 33, 970-978.	3.2	6
11	From Rayleighâ€“BÃ©nard convection to porous-media convection: how porosity affects heat transfer and flow structure. Journal of Fluid Mechanics, 2020, 895, .	3.4	32
12	Photon deceleration in plasma wakes generates single-cycle relativistic tunable infrared pulses. Nature Communications, 2020, 11, 2787.	12.8	23
13	Heat transfer enhancement in Rayleigh-BÃ©nard convection using a single passive barrier. Physical Review Fluids, 2020, 5, .	2.5	10
14	Measurements of the Growth and Saturation of Electron Weibel Instability in Optical-Field Ionized Plasmas. Physical Review Letters, 2020, 125, 255001.	7.8	18
15	Cyclodextrin functionalized 3D-graphene for the removal of Cr(VI) with the easy and rapid separation strategy. Environmental Pollution, 2019, 254, 112854.	7.5	43
16	Onset of fully compressible convection in a rapidly rotating spherical shell. Journal of Fluid Mechanics, 2019, 873, 1090-1115.	3.4	11
17	Quantitative Analysis of Surface Sites on Carbon Dots and Their Interaction with Metal Ions by a Potentiometric Titration Method. Analytical Chemistry, 2019, 91, 9690-9697.	6.5	19
18	Bifurcations in penetrative Rayleigh-BÃ©nard convection in a cylindrical container. Applied Mathematics and Mechanics (English Edition), 2019, 40, 695-704.	3.6	5

#	Article	IF	Citations
19	Linear and weakly nonlinear analysis of Rayleighâ€“BÃ©nard convection of perfect gas with non-Oberbeckâ€“Boussinesq effects. Journal of Fluid Mechanics, 2018, 845, 141-169.	3.4	19
20	Microplasma Anode Meeting Molten Salt Electrochemistry: Charge Transfer and Atomic Emission Spectral Analysis. Analytical Chemistry, 2018, 90, 13163-13166.	6.5	6
21	Self-Cascade System Based on Cupric Oxide Nanoparticles as Dual-Functional Enzyme Mimics for Ultrasensitive Detection of Silver Ions. ACS Sustainable Chemistry and Engineering, 2018, 6, 12132-12139.	6.7	40
22	Relativistic single-cycle tunable infrared pulses generated from a tailored plasma density structure. Nature Photonics, 2018, 12, 489-494.	31.4	59
23	Flow reversals in Rayleighâ€“BÃ©nard convection with non-Oberbeckâ€“Boussinesq effects. Journal of Fluid Mechanics, 2016, 798, 628-642.	3.4	35
24	Bifurcation analysis of laminar isothermal planar opposed-jet flow. Computers and Fluids, 2016, 140, 72-80.	2.5	6