

Juan-Cheng Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28 papers	478 citations	8 h-index	21 g-index
36 ext. papers	574 ext. citations	3 avg, IF	3.59 L-index

#	Paper	IF	Citations
28	Experimental and numerical studies on the three-dimensional flow around single and two tandem circular cylinders in a duct. <i>Physics of Fluids</i> , 2022 , 34, 033610	4.4	0
27	Transition from steady to oscillating convection rolls in Rayleigh-B�ard convection under the influence of a horizontal magnetic field. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	4
26	Free-fall velocities and heat transport enhancement in liquid metal magneto-convection. <i>Journal of Fluid Mechanics</i> , 2021 , 915,	3.7	3
25	Magnetohydrodynamic effects on liquid metal film flowing along an inclined plate relating to plasma facing components. <i>Nuclear Fusion</i> , 2020 , 60, 086003	3.3	0
24	Investigation of liquid metal drop impingement on a liquid metal surface under the influence of a horizontal magnetic field. <i>Physics of Fluids</i> , 2020 , 32, 053311	4.4	5
23	A soft sandwich structure enables voltage-induced actuation of liquid metal embedded elastomers. <i>AIP Advances</i> , 2020 , 10, 015016	1.5	6
22	An experimental investigation on the collision outcomes of binary liquid metal droplets. <i>International Journal of Multiphase Flow</i> , 2019 , 116, 80-90	3.6	6
21	Elliptical spreading characteristics of a liquid metal droplet impact on a glass surface under a horizontal magnetic field. <i>Physics of Fluids</i> , 2018 , 30, 012101	4.4	7
20	Experimental study on the lithium film flow in the spanwise magnetic field. <i>Fusion Engineering and Design</i> , 2018 , 136, 522-526	1.7	5
19	Surface waves of liquid metal film flow under the influence of spanwise magnetic field. <i>Fusion Engineering and Design</i> , 2018 , 130, 42-47	1.7	4
18	Preliminary experimental study on applicability of Lorentz force velocimetry in an external magnetic field. <i>Nuclear Science and Techniques/Hewuli</i> , 2018 , 29, 1	2.1	
17	Three-dimensional numerical simulation on the spreading characteristics of a liquid metal droplet in a horizontal magnetic field. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 74, 1786-1803	2.3	4
16	Rearrangement of liquid metal surface waves by a uniform transverse magnetic field. <i>Experiments in Fluids</i> , 2018 , 59, 1	2.5	1
15	The linear stability of Hunt-Rayleigh-B�ard flow. <i>Physics of Fluids</i> , 2017 , 29, 064103	4.4	6
14	On the spreading of impacting drops under the influence of a vertical magnetic field. <i>Journal of Fluid Mechanics</i> , 2016 , 809,	3.7	16
13	Flow patterns of GaInSn liquid on inclined stainless steel plate under a range of magnetic field. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 861-865	1.7	5
12	Analysis of heat transfer performance for turbulent viscoelastic fluid-based nanofluid using field synergy principle. <i>Science China Technological Sciences</i> , 2015 , 58, 1137-1145	3.5	3

11	Heat Transfer Performance Of Viscoelastic-Fluid-Based Nanofluid Pipe Flow At Entrance Region. <i>Experimental Heat Transfer</i> , 2015 , 28, 125-138	2.4	8
10	Direct numerical simulation of viscoelastic-fluid-based nanofluid turbulent channel flow with heat transfer. <i>Chinese Physics B</i> , 2015 , 24, 084401	1.2	6
9	On the mechanism of convective heat transfer enhancement in a turbulent flow of nanofluid investigated by DNS and analyses of POD and FSP. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 277-288	4.9	11
8	Experimental study on the characteristics of heat transfer and flow resistance in turbulent pipe flows of viscoelastic-fluid-based Cu nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 303-313	4.9	34
7	Experimental study on the characteristics of thermal conductivity and shear viscosity of viscoelastic-fluid-based nanofluids containing multiwalled carbon nanotubes. <i>Thermochimica Acta</i> , 2013 , 556, 47-53	2.9	63
6	Modeling Asymmetric Flow of Viscoelastic Fluid in Symmetric Planar Sudden Expansion Geometry Based on User-Defined Function in FLUENT CFD Package. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 795937	1.2	2
5	Study on the mechanism of droplet formation in T-junction microchannel. <i>Chemical Engineering Science</i> , 2012 , 69, 340-351	4.4	125
4	Very-low-Re chaotic motions of viscoelastic fluid and its unique applications in microfluidic devices: A review. <i>Experimental Thermal and Fluid Science</i> , 2012 , 39, 1-16	3	33
3	Experimental investigation on the thermal conductivity and shear viscosity of viscoelastic-fluid-based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3160-3166	4.9	97
2	The Vortex Structures of Elastic Turbulence in 3D Kolmogorov Flow with Polymer Additives 2011 ,		1
1	Natural Convection of Cu-Gallium Nanofluid in Enclosures. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	23