

# Juan-Cheng Yang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5188527/juan-cheng-yang-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
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	Study on the mechanism of droplet formation in T-junction microchannel. <i>Chemical Engineering Science</i> , <b>2012</b> , 69, 340-351	4.4	125
27	Experimental investigation on the thermal conductivity and shear viscosity of viscoelastic-fluid-based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2012</b> , 55, 3160-3166	4.9	97
26	Experimental study on the characteristics of thermal conductivity and shear viscosity of viscoelastic-fluid-based nanofluids containing multiwalled carbon nanotubes. <i>Thermochimica Acta</i> , <b>2013</b> , 556, 47-53	2.9	63
25	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> , <b>2013</b> , 62, 303-313	4.9	34
24	Very-low-Re chaotic motions of viscoelastic fluid and its unique applications in microfluidic devices: A review. <i>Experimental Thermal and Fluid Science</i> , <b>2012</b> , 39, 1-16	3	33
23	Natural Convection of Cu-Gallium Nanofluid in Enclosures. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	23
22	On the spreading of impacting drops under the influence of a vertical magnetic field. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 809,	3.7	16
21	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> , <b>2014</b> , 78, 277-288	4.9	11
20	Heat Transfer Performance Of Viscoelastic-Fluid-Based Nanofluid Pipe Flow At Entrance Region. <i>Experimental Heat Transfer</i> , <b>2015</b> , 28, 125-138	2.4	8
19	Elliptical spreading characteristics of a liquid metal droplet impact on a glass surface under a horizontal magnetic field. <i>Physics of Fluids</i> , <b>2018</b> , 30, 012101	4.4	7
18	The linear stability of Hunt-Rayleigh-BBard flow. <i>Physics of Fluids</i> , <b>2017</b> , 29, 064103	4.4	6
17	An experimental investigation on the collision outcomes of binary liquid metal droplets. <i>International Journal of Multiphase Flow</i> , <b>2019</b> , 116, 80-90	3.6	6
16	Direct numerical simulation of viscoelastic-fluid-based nanofluid turbulent channel flow with heat transfer. <i>Chinese Physics B</i> , <b>2015</b> , 24, 084401	1.2	6
15	A soft sandwich structure enables voltage-induced actuation of liquid metal embedded elastomers. <i>AIP Advances</i> , <b>2020</b> , 10, 015016	1.5	6
14	Investigation of liquid metal drop impingement on a liquid metal surface under the influence of a horizontal magnetic field. <i>Physics of Fluids</i> , <b>2020</b> , 32, 053311	4.4	5
13	Experimental study on the lithium film flow in the spanwise magnetic field. <i>Fusion Engineering and Design</i> , <b>2018</b> , 136, 522-526	1.7	5
12	Flow patterns of GaInSn liquid on inclined stainless steel plate under a range of magnetic field. <i>Fusion Engineering and Design</i> , <b>2016</b> , 109-111, 861-865	1.7	5

11	Surface waves of liquid metal film flow under the influence of spanwise magnetic field. <i>Fusion Engineering and Design</i> , <b>2018</b> , 130, 42-47	1.7	4
10	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> , <b>2021</b> , 6,	2.8	4
9	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> , <b>2018</b> , 74, 1786-1803	2.3	4
8	Analysis of heat transfer performance for turbulent viscoelastic fluid-based nanofluid using field synergy principle. <i>Science China Technological Sciences</i> , <b>2015</b> , 58, 1137-1145	3.5	3
7	Free-fall velocities and heat transport enhancement in liquid metal magneto-convection. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 915,	3.7	3
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> , <b>2013</b> , 5, 795937	1.2	2
5	The Vortex Structures of Elastic Turbulence in 3D Kolmogorov Flow with Polymer Additives <b>2011</b> ,		1
4	Rearrangement of liquid metal surface waves by a uniform transverse magnetic field. <i>Experiments in Fluids</i> , <b>2018</b> , 59, 1	2.5	1
3	Magnetohydrodynamic effects on liquid metal film flowing along an inclined plate relating to plasma facing components. <i>Nuclear Fusion</i> , <b>2020</b> , 60, 086003	3.3	0
2	Experimental and numerical studies on the three-dimensional flow around single and two tandem circular cylinders in a duct. <i>Physics of Fluids</i> , <b>2022</b> , 34, 033610	4.4	0
1	Preliminary experimental study on applicability of Lorentz force velocimetry in an external magnetic field. <i>Nuclear Science and Techniques/Hewuli</i> , <b>2018</b> , 29, 1	2.1	