

# Hong-Na Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/569012/publications.pdf>

Version: 2024-02-01

24  
papers

253  
citations

1040056

9  
h-index

996975

15  
g-index

24  
all docs

24  
docs citations

24  
times ranked

279  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic control of particle separation in deterministic lateral displacement separator with viscoelastic fluids. <i>Scientific Reports</i> , 2018, 8, 3618.	3.3	37
2	Efficient heat transfer enhancement by elastic turbulence with polymer solution in a curved microchannel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	27
3	Electroosmotic Flow of Viscoelastic Fluid in a Nanoslit. <i>Micromachines</i> , 2018, 9, 155.	2.9	23
4	Effect of polymer additives on heat transport and large-scale circulation in turbulent Rayleigh-Bénard convection. <i>Physical Review E</i> , 2017, 96, 013111.	2.1	21
5	Comparison of turbulent drag reduction mechanisms of viscoelastic fluids based on the Fukagata-Iwamoto-Kasagi identity and the Renard-Deck identity. <i>Physics of Fluids</i> , 2020, 32, 013104.	4.0	16
6	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.	4.8	14
7	Numerical simulation of heat transfer enhancement by elastic turbulence in a curvy channel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	14
8	Visualization of bubble mechanism of pulsating heat pipe with conventional working fluids and surfactant solution. <i>Experimental and Computational Multiphase Flow</i> , 2020, 2, 22-30.	3.9	12
9	Nonlinear effects of viscoelastic fluid flows and applications in microfluidics: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 4390-4414.	2.1	12
10	Numerical study on the dynamic process of single plume flow in thermal convection with polymers. <i>Physics of Fluids</i> , 2019, 31, 023105.	4.0	11
11	Analysis of coherent structures in drag-reducing polymer solution flow based on proper orthogonal decomposition. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 854-860.	5.1	9
12	Direct numerical simulation of viscoelastic-fluid-based nanofluid turbulent channel flow with heat transfer. <i>Chinese Physics B</i> , 2015, 24, 084401.	1.4	9
13	Steady laminar plume generated from a heated line in polymer solutions. <i>Physics of Fluids</i> , 2019, 31, .	4.0	9
14	Comparative study on numerical performances of log-conformation representation and standard conformation representation in the simulation of viscoelastic fluid turbulent drag-reducing channel flow. <i>Physics of Fluids</i> , 2021, 33, 023101.	4.0	9
15	Proper orthogonal decomposition analysis for two-oscillating grid turbulence with viscoelastic fluids. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667977.	1.6	6
16	Modulation of viscoelastic fluid response to external body force. <i>Scientific Reports</i> , 2019, 9, 9402.	3.3	6
17	The effect of surfactant solutions on flow structures in turbulent Rayleigh-Benard convection. <i>Thermal Science</i> , 2018, 22, 507-515.	1.1	5
18	A numerical study on viscoelastic droplet migration on a solid substrate due to wettability gradient. <i>Electrophoresis</i> , 2019, 40, 851-858.	2.4	4

#	ARTICLE	IF	CITATIONS
19	Direct numerical simulation of surfactant solution flow in the wide rib rectangular grooved channel. <i>AICHE Journal</i> , 2018, 64, 2898-2912.	3.6	3
20	Experimental study on two oscillating grid turbulence with viscoelastic fluids based on PIV. <i>Canadian Journal of Physics</i> , 2017, 95, 1271-1277.	1.1	2
21	Experimental study on rheological and thermophysical properties of seawater with surfactant additive part I: rheological properties. <i>Rheologica Acta</i> , 2018, 57, 619-633.	2.4	2
22	Numerical Study on the Characteristics of Boger Type Viscoelastic Fluid Flow in a Micro Cross-Slot under Sinusoidal Stimulation. <i>Entropy</i> , 2020, 22, 64.	2.2	1
23	Lattice Boltzmann simulation of Rayleigh-Benard convection in enclosures filled with Al <sub>2</sub> O <sub>3</sub> -water nanofluid. <i>Thermal Science</i> , 2018, 22, 535-545.	1.1	1
24	The Polymer Effect on Nonlinear Processes in Decaying Homogeneous Isotropic Turbulence. <i>Advances in Mechanical Engineering</i> , 2013, 5, 921524.	1.6	0