Hong-Na Zhang

List of Publications by Year
in descending order

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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	Comparative study on numerical performances of log-conformation representation and standard conformation representation in the simulation of viscoelastic fluid turbulent drag-reducing channel flow. Physics of Fluids, 2021, 33, 023101.	4.0	9
2	Visualization of bubble mechanism of pulsating heat pipe with conventional working fluids and surfactant solution. Experimental and Computational Multiphase Flow, 2020, 2, 22-30.	3.9	12
3	Numerical Study on the Characteristics of Boger Type Viscoelastic Fluid Flow in a Micro Cross-Slot under Sinusoidal Stimulation. Entropy, 2020, 22, 64.	2.2	1
4	Comparison of turbulent drag reduction mechanisms of viscoelastic fluids based on the Fukagata-Iwamoto-Kasagi identity and the Renard-Deck identity. Physics of Fluids, 2020, 32, 013104.	4.0	16
5	Nonlinear effects of viscoelastic fluid flows and applications in microfluidics: A review. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 4390-4414.	2.1	12
6	Modulation of viscoelastic fluid response to external body force. Scientific Reports, 2019, 9, 9402.	3.3	6
7	Steady laminar plume generated from a heated line in polymer solutions. Physics of Fluids, 2019, 31, .	4.0	9
8	Numerical study on the dynamic process of single plume flow in thermal convection with polymers. Physics of Fluids, 2019, 31, 023105.	4.0	11
9	A numerical study on viscoelastic droplet migration on a solid substrate due to wettability gradient. Electrophoresis, 2019, 40, 851-858.	2.4	4
10	Direct numerical simulation of surfactant solution flow in the wideâ€rib rectangular grooved channel. AICHE Journal, 2018, 64, 2898-2912.	3.6	3
11	Dynamic control of particle separation in deterministic lateral displacement separator with viscoelastic fluids. Scientific Reports, 2018, 8, 3618.	3.3	37
12	Electroosmotic Flow of Viscoelastic Fluid in a Nanoslit. Micromachines, 2018, 9, 155.	2.9	23
13	Experimental study on rheological and thermophysical properties of seawater with surfactant additiveâ€”part I: rheological properties. Rheologica Acta, 2018, 57, 619-633.	2.4	2
14	The effect of surfactant solutions on flow structures in turbulent Rayleigh-Benard convection. Thermal Science, 2018, 22, 507-515.	1.1	5
15	Lattice Boltzmann simulation of Rayleigh-Benard convection in enclosures filled with Al2O3-water nanofluid. Thermal Science, 2018, 22, 535-545.	1.1	1
16	Efficient heat transfer enhancement by elastic turbulence with polymer solution in a curved microchannel. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	27
17	Numerical simulation of heat transfer enhancement by elastic turbulence in a curvy channel. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	14
18	Experimental study on two oscillating grid turbulence with viscoelastic fluids based on PIV. Canadian Journal of Physics, 2017, 95, 1271-1277.	1.1	2

#	Article	IF	Citations
19	Effect of polymer additives on heat transport and large-scale circulation in turbulent Rayleigh-BÃ©nard convection. Physical Review E, 2017, 96, 013111.	2.1	21
20	Proper orthogonal decomposition analysis for two-oscillating grid turbulence with viscoelastic fluids. Advances in Mechanical Engineering, 2016, 8, 168781401667977.	1.6	6
21	Direct numerical simulation of viscoelastic-fluid-based nanofluid turbulent channel flow with heat transfer. Chinese Physics B, 2015, 24, 084401.	1.4	9
22	On the mechanism of convective heat transfer enhancement in a turbulent flow of nanofluid investigated by DNS and analyses of POD and FSP. International Journal of Heat and Mass Transfer, 2014, 78, 277-288.	4.8	14
23	The Polymer Effect on Nonlinear Processes in Decaying Homogeneous Isotropic Turbulence. Advances in Mechanical Engineering, 2013, 5, 921524.	1.6	0
24	Analysis of coherent structures in drag-reducing polymer solution flow based on proper orthogonal decomposition. Science China: Physics, Mechanics and Astronomy, 2012, 55, 854-860.	5.1	9