

Xiao-Bin Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12053315/publications.pdf>

Version: 2024-02-01

32
papers

496
citations

759233

12
h-index

677142

22
g-index

32
all docs

32
docs citations

32
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the mechanism of droplet formation in T-junction microchannel. <i>Chemical Engineering Science</i> , 2012, 69, 340-351.	3.8	155
2	Creation of very-low-Reynolds-number chaotic fluid motions in microchannels using viscoelastic surfactant solution. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 20-27.	2.7	51
3	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.	2.7	44
4	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
5	Mitigation of radial exciting force of rotary lobe pump by gradually varied gap. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 711-723.	3.1	22
6	On the hydraulic axial thrust of Francis hydro-turbine. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2029-2035.	1.5	19
7	Measuring heat transfer performance of viscoelastic fluid flow in curved microchannel using Ti/Pt film temperature sensor. <i>Experimental Thermal and Fluid Science</i> , 2016, 77, 226-233.	2.7	18
8	Dynamics of viscoelastic fluid droplet under very low interfacial tension in a serpentine T-junction microchannel. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1007-1021.	2.2	16
9	An efficient micro-mixer by elastic instabilities of viscoelastic fluids: Mixing performance and mechanistic analysis. <i>International Journal of Heat and Fluid Flow</i> , 2018, 74, 130-143.	2.4	16
10	Numerical simulation of heat transfer enhancement by elastic turbulence in a curvy channel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	14
11	Assessment of Les Performance in Simulating Complex 3D Flows in Turbo-Machines. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2012, 6, 356-365.	3.1	13
12	Chaotic dynamic characteristics of pressure fluctuation signals in hydro-turbine. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 5009-5017.	1.5	12
13	Numerical Simulation of Heat Transfer Process of Viscoelastic Fluid Flow at High Weissenberg Number by Log-Conformation Reformulation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017, 139, .	1.5	12
14	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
15	Dynamic flow behavior and performance of a reactor coolant pump with distorted inflow. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 683-699.	3.1	11
16	Measuring elasticity-induced unstable flow structures in a curved microchannel using confocal micro particle image velocimetry. <i>Experimental Thermal and Fluid Science</i> , 2016, 75, 118-128.	2.7	10
17	Measurement of Viscoelastic Fluid Flow in the Curved Microchannel Using Digital Holographic Microscope and Polarized Camera. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	1.5	8
18	A method for analysis of head cover deformation and vibration amplitude in Francis hydro-turbine system by combination of CFD and FEA. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4255-4266.	1.5	8

#	ARTICLE	IF	CITATIONS
19	Effect of blade perforation on Francis hydro-turbine cavitation characteristics. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 412-420.	1.7	7
20	Motion of Passive Scalar by Elasticity-Induced Instability in Curved Microchannel. Advances in Mechanical Engineering, 2014, 6, 734175.	1.6	4
21	Characteristics and generation of elastic turbulence in a three-dimensional parallel plate channel using direct numerical simulation. Chinese Physics B, 2016, 25, 094701.	1.4	4
22	Investigation into the outlying swirl instability in the hydro-turbine draft tube under part-load operation. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 139-153.	1.4	3
23	Experimental and Numerical Study on the Droplet Formation in a Cross-Flow Microchannel. Journal of Nanoscience and Nanotechnology, 2015, 15, 2964-2969.	0.9	2
24	Experimental study on rheological and thermophysical properties of seawater with surfactant additive”part I: rheological properties. Rheologica Acta, 2018, 57, 619-633.	2.4	2
25	Comparisons of LES and RANS Computations with PIV Experiments on a Cylindrical Cavity Flow. Advances in Mechanical Engineering, 2013, 5, 592940.	1.6	2
26	The influence of runner cone perforation on the draft tube vortex in Francis hydro-turbine. Thermal Science, 2018, 22, 557-566.	1.1	2
27	On the Flow Instabilities and Turbulent Kinetic Energy of Large-Scale Francis Hydroturbine Model at Low Flow Rate Conditions. Advances in Mechanical Engineering, 2014, 6, 786891.	1.6	1
28	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
29	Motion of Passive Particles Carried by Viscoelastic Fluid Flow in the Curvilinear Microchannel. , 2013, , .		0
30	Viscoelastic droplet dynamics under very low interfacial tension in a serpentine T-junction microchannel. , 2013, , .		0
31	Measurement of 3D Flow Structure of Viscoelastic Fluid Using Digital Holographic Microscope. , 2015, , .		0
32	Runner Blade Number Influencing the RPT Runner Upstream Flow Characteristics: A CFD Numerical Simulation. , 2019, , .		0