

Xiao-Bin Li

List of Publications by Year in descending order

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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	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
2	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
3	Dynamic flow behavior and performance of a reactor coolant pump with distorted inflow. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 683-699.	3.1	11
4	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
5	Runner Blade Number Influencing the RPT Runner Upstream Flow Characteristics: A CFD Numerical Simulation. , 2019, , .		0
6	An efficient micro-mixer by elastic instabilities of viscoelastic fluids: Mixing performance and mechanistic analysis. International Journal of Heat and Fluid Flow, 2018, 74, 130-143.	2.4	16
7	Mitigation of radial exciting force of rotary lobe pump by gradually varied gap. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 711-723.	3.1	22
8	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
9	The influence of runner cone perforation on the draft tube vortex in Francis hydro-turbine. Thermal Science, 2018, 22, 557-566.	1.1	2
10	Efficient heat transfer enhancement by elastic turbulence with polymer solution in a curved microchannel. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	27
11	Numerical simulation of heat transfer enhancement by elastic turbulence in a curvy channel. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	14
12	Numerical Simulation of Heat Transfer Process of Viscoelastic Fluid Flow at High Weissenberg Number by Log-Conformation Reformulation. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	12
13	A method for analysis of head cover deformation and vibration amplitude in Francis hydro-turbine system by combination of CFD and FEA. Journal of Mechanical Science and Technology, 2017, 31, 4255-4266.	1.5	8
14	Measurement of Viscoelastic Fluid Flow in the Curved Microchannel Using Digital Holographic Microscope and Polarized Camera. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	8
15	Chaotic dynamic characteristics of pressure fluctuation signals in hydro-turbine. Journal of Mechanical Science and Technology, 2016, 30, 5009-5017.	1.5	12
16	On the hydraulic axial thrust of Francis hydro-turbine. Journal of Mechanical Science and Technology, 2016, 30, 2029-2035.	1.5	19
17	Measuring heat transfer performance of viscoelastic fluid flow in curved microchannel using Ti”Pt film temperature sensor. Experimental Thermal and Fluid Science, 2016, 77, 226-233.	2.7	18
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Measurement of 3D Flow Structure of Viscoelastic Fluid Using Digital Holographic Microscope. , 2015, , .		0
21	Experimental and Numerical Study on the Droplet Formation in a Cross-Flow Microchannel. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2964-2969.	0.9	2
22	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
23	Effect of blade perforation on Francis hydro-turbine cavitation characteristics. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 412-420.	1.7	7
24	Motion of Passive Scalar by Elasticity-Induced Instability in Curved Microchannel. <i>Advances in Mechanical Engineering</i> , 2014, 6, 734175.	1.6	4
25	On the Flow Instabilities and Turbulent Kinetic Energy of Large-Scale Francis Hydroturbine Model at Low Flow Rate Conditions. <i>Advances in Mechanical Engineering</i> , 2014, 6, 786891.	1.6	1
26	Motion of Passive Particles Carried by Viscoelastic Fluid Flow in the Curvilinear Microchannel. , 2013, , .		0
27	Viscoelastic droplet dynamics under very low interfacial tension in a serpentine T-junction microchannel. , 2013, , .		0
28	Comparisons of LES and RANS Computations with PIV Experiments on a Cylindrical Cavity Flow. <i>Advances in Mechanical Engineering</i> , 2013, 5, 592940.	1.6	2
29	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
30	Study on the mechanism of droplet formation in T-junction microchannel. <i>Chemical Engineering Science</i> , 2012, 69, 340-351.	3.8	155
31	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
32	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