

Jin-Yuan Qian

List of Publications by Year in descending order

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94
papers

1,711
citations

236833

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h-index

315616

38
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95
all docs

95
docs citations

95
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Sleeve Parameters on Cavitation Control Performance in Steam Trap Valves. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	3
2	Thermo-mechanical stress analysis of feed-water valves in nuclear power plants. Nuclear Engineering and Technology, 2022, 54, 849-859.	1.1	6
3	Seal contact performance analysis of soft seals on high-pressure hydrogen charge valves. Journal of Zhejiang University: Science A, 2022, 23, 247-256.	1.3	4
4	Dynamic characteristics analysis of pilot valves with different inlet diameters installed on the main steam valve set. Case Studies in Thermal Engineering, 2022, 34, 102004.	2.8	4
5	Practice of flow control and smart valves. Journal of Zhejiang University: Science A, 2022, 23, 243-246.	1.3	1
6	New methods for projecting a 3D object onto a free-form surface. Engineering Computations, 2021, 38, 852-873.	0.7	0
7	Effect of wind condition on unintended hydrogen release in a hydrogen refueling station. International Journal of Hydrogen Energy, 2021, 46, 5537-5547.	3.8	23
8	Heat Transfer Study of a Hybrid Smooth and Spirally Corrugated Tube. Heat Transfer Engineering, 2021, 42, 242-250.	1.2	9
9	Cooling Performance Analysis of Outside Fins of the Closed Circuit Axial Piston Transmission. Machines, 2021, 9, 17.	1.2	1
10	A parametric study on unbalanced moment of piston type valve core. Journal of Zhejiang University: Science A, 2021, 22, 265-276.	1.3	4
11	Fluid dynamic analysis of liquefied natural gas flow through a cryogenic ball valve in liquefied natural gas receiving stations. Energy, 2021, 226, 120376.	4.5	17
12	Modal and structural analysis on a main feed water regulating valve under different loading conditions. Annals of Nuclear Energy, 2021, 159, 108309.	0.9	4
13	Mechanism for wrapping fiber around the Y fork. Composite Structures, 2021, 275, 114480.	3.1	0
14	Effects of oil channels and oil flow rate on cooling performance of closed circuit axial piston transmission. Case Studies in Thermal Engineering, 2021, 28, 101375.	2.8	0
15	Analysis of Fouling in Six-Start Spirally Corrugated Tubes. Heat Transfer Engineering, 2020, 41, 1885-1900.	1.2	4
16	Thermohydraulic analysis of hybrid smooth and spirally corrugated tubes. International Journal of Thermal Sciences, 2020, 158, 106520.	2.6	12
17	Cavitation Suppression of Bileaflet Mechanical Heart Valves. Cardiovascular Engineering and Technology, 2020, 11, 783-794.	0.7	4
18	Fluid-Structure Interaction Analysis on Membrane Behavior of a Microfluidic Passive Valve. Membranes, 2020, 10, 300.	1.4	6

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19	Thermohydraulic performance evaluation of multi-start spirally corrugated tubes. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119876.	2.5	21
20	Effects of throttling window on flow rate through feed-water valves. <i>ISA Transactions</i> , 2020, 104, 393-405.	3.1	14
21	A numerical study of unintended hydrogen release in a hydrogen refueling station. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20142-20152.	3.8	28
22	Valve core shapes analysis on flux through control valves in nuclear power plants. <i>Nuclear Engineering and Technology</i> , 2020, 52, 2173-2182.	1.1	25
23	Internal Flow Analysis of a Heat Transfer Enhanced Tube with a Segmented Twisted Tape Insert. <i>Energies</i> , 2020, 13, 207.	1.6	11
24	Transient analysis on pressure stabilization of spring linked two-stage perforated plates. <i>Flow Measurement and Instrumentation</i> , 2020, 72, 101692.	1.0	5
25	Actuation Mechanism of Microvalves: A Review. <i>Micromachines</i> , 2020, 11, 172.	1.4	75
26	Effect of valve core shapes on cavitation flow through a sleeve regulating valve. <i>Journal of Zhejiang University: Science A</i> , 2020, 21, 1-14.	1.3	49
27	Transient Study of Flow and Cavitation Inside a Bileaflet Mechanical Heart Valve. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2548.	1.3	11
28	A numerical study of heat transfer effects and aerodynamic noise reduction in superheated steam flow passing a temperature and pressure regulation valve. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 77, 873-889.	1.2	6
29	A numerical study of hydrogen leakage and diffusion in a hydrogen refueling station. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14428-14439.	3.8	65
30	Pilot Pipe and Damping Orifice Arrangements Analysis of a Pilot-Control Globe Valve. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020, 142, .	0.8	7
31	Fluid Dynamics Investigation on the Body Structure Inside a Sleeve Regulating Valve. , 2020, , .		0
32	Effect of shear-induced aperture evolution on fluid flow in rock fractures. <i>Computers and Geotechnics</i> , 2019, 114, 103152.	2.3	77
33	Effects of a Dynamic Injection Flow Rate on Slug Generation in a Cross-Junction Square Microchannel. <i>Processes</i> , 2019, 7, 765.	1.3	10
34	A comprehensive review on liquid-liquid two-phase flow in microchannel: flow pattern and mass transfer. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	49
35	Research laboratory for Smart Control Valves at Zhejiang University. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 229-232.	1.3	1
36	Mach number and energy loss analysis inside multi-stage Tesla valves for hydrogen decompression. <i>Energy</i> , 2019, 179, 647-654.	4.5	61

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37	Aerodynamics analysis of superheated steam flow through multi-stage perforated plates. International Journal of Heat and Mass Transfer, 2019, 141, 48-57.	2.5	25
38	A comprehensive review of cavitation in valves: mechanical heart valves and control valves. Bio-Design and Manufacturing, 2019, 2, 119-136.	3.9	31
39	Mixing efficiency and pressure drop analysis of liquid-liquid two phases flow in serpentine microchannels. Journal of Flow Chemistry, 2019, 9, 187-197.	1.2	20
40	Hydrogen decompression analysis by multi-stage Tesla valves for hydrogen fuel cell. International Journal of Hydrogen Energy, 2019, 44, 13666-13674.	3.8	61
41	Cavitating Flow through a Micro-Orifice. Micromachines, 2019, 10, 191.	1.4	16
42	Deadzone compensation control based on detection of micro flow rate in pilot stage of proportional directional valve. ISA Transactions, 2019, 94, 234-245.	3.1	16
43	Slug Formation Analysis of Liquid-Liquid Two-Phase Flow in T-Junction Microchannels. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	20
44	Heat transfer analysis on dimple geometries and arrangements in dimple jacketed heat exchanger. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 2775-2791.	1.6	8
45	Flow dynamic analysis inside a sleeve regulating valve with different valve core shapes. , 2019, , .		1
46	A numerical investigation of the flow of nanofluids through a micro Tesla valve. Journal of Zhejiang University: Science A, 2019, 20, 50-60.	1.3	81
47	Mixing Efficiency Analysis on Droplet Formation Process in Microchannels by Numerical Methods. Processes, 2019, 7, 33.	1.3	17
48	Transient Simulation on Unbalanced Torque of Piston Type Valve Cores During Dynamic Motion. , 2019, , .		1
49	An Optimization Study on Cavitation Flow in a Steam Trap Valve. , 2019, , .		0
50	Parametric study on Tesla valve with reverse flow for hydrogen decompression. International Journal of Hydrogen Energy, 2018, 43, 8888-8896.	3.8	48
51	Turbulent compressible flow analysis on multi-stage high pressure reducing valve. Flow Measurement and Instrumentation, 2018, 61, 26-37.	1.0	38
52	Computational fluid dynamics analysis on orifice structure inside valve core of pilot-control angle globe valve. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 2419-2429.	1.1	14
53	A Parametric Study of Hydrodynamic Cavitation Inside Globe Valves. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	35
54	Parametric analysis on throttling components of multi-stage high pressure reducing valve. Applied Thermal Engineering, 2018, 128, 1238-1248.	3.0	36

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55	Heat transfer study on a hybrid smooth and spirally corrugated tube. MATEC Web of Conferences, 2018, 240, 01038.	0.1	0
56	Effects of nanoparticles on hydraulic cavitation. MATEC Web of Conferences, 2018, 240, 03004.	0.1	0
57	Water-Oil Flow in Square Microchannels With a Crossed Junction. , 2018, , .		0
58	Transient Simulation on Dynamic Motion of Mobile Perforated Plate in Two Stage Spring Linked Perforated Plates. , 2018, , .		0
59	Parametric Study on Fluid Dynamics of Pilot-Control Angle Globe Valve. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	25
60	The Hydraulic Cavitation Affected by Nanoparticles in Nanofluids. Computation, 2018, 6, 44.	1.0	1
61	Water-Silicone Oil Two-Phase Flow Hydrodynamics in a Square Glass Microchannel. , 2018, , .		1
62	A geometric study on shell side heat transfer and flow resistance of a six-start spirally corrugated tube. Numerical Heat Transfer; Part A: Applications, 2018, 73, 565-582.	1.2	11
63	PRESSURE FLUCTUATIONS OF LIQUID-LIQUID SLUG FLOW IN CROSS-JUNCTION SQUARE MICROCHANNELS. , 2018, , .		0
64	CFD ANALYSIS ON FLOW CHARACTERISTICS OF PERFORATED PLATE IN MULTI-STAGE HIGH PRESSURE REDUCING VALVE. , 2018, , .		0
65	Fouling Analysis on Energy Dissipation Orifice Plates With Sediment Contained Water Flow. , 2018, , .		0
66	Effects of pitch and corrugation depth on heat transfer characteristics in six-start spirally corrugated tube. International Journal of Heat and Mass Transfer, 2017, 108, 1011-1025.	2.5	46
67	Thermodynamic analysis of siphon flash evaporation desalination system using ocean thermal energy. Energy Conversion and Management, 2017, 136, 66-77.	4.4	32
68	Pressure analysis on two-step high pressure reducing system for hydrogen fuel cell electric vehicle. International Journal of Hydrogen Energy, 2017, 42, 11541-11552.	3.8	33
69	Pressure Drop Analysis of Pilot-Control Globe Valve With Different Structural Parameters. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	0.8	18
70	Co-generation of hydrogen and carbon aerosol from coalbed methane surrogate using rotating gliding arc plasma. Applied Energy, 2017, 195, 67-79.	5.1	36
71	Numerical Study on Pressure Difference of Valve Core in Vertical Pilot-Control Globe Valve. , 2017, , .		0
72	Numerical Study on Flow Characteristics in High Multi-Stage Pressure Reducing Valve. , 2017, , .		3

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73	Thermo-mechanical stress and fatigue damage analysis on multi-stage high pressure reducing valve. <i>Annals of Nuclear Energy</i> , 2017, 110, 753-767.	0.9	15
74	Flow rate analysis of compressible superheated steam through pressure reducing valves. <i>Energy</i> , 2017, 135, 650-658.	4.5	30
75	Experimental and numerical analysis of spring stiffness on flow and valve core movement in pilot control globe valve. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17192-17201.	3.8	26
76	Effects of Inlet Arrangements on Liquid-Liquid Flow Patterns in Cross-Junction Square Microchannels. , 2017, , .		0
77	EFFECTS OF DIMPLE CONE ANGLES ON HEAT TRANSFER AND PRESSURE DROP IN A DIMPLE JACKETED HEAT EXCHANGER. , 2017, , .		0
78	Field synergy analysis of six starts spiral corrugated tube under high Reynolds number. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032070.	0.3	4
79	Dynamic response analysis of pilot control globe valve focusing on opening and closing time of pilot valve. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032046.	0.3	2
80	Mach number analysis on multi-stage perforated plates in high pressure reducing valve. <i>Energy Conversion and Management</i> , 2016, 119, 81-90.	4.4	26
81	CFD analysis on flow resistance characteristics of six-start spirally corrugated tube. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 1198-1207.	2.5	28
82	Effects of orifice on pressure difference in pilot-control globe valve by experimental and numerical methods. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18562-18570.	3.8	19
83	Numerical analysis of flow and temperature characteristics in a high multi-stage pressure reducing valve for hydrogen refueling station. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5559-5570.	3.8	53
84	Experimental analysis on filter press and energy consumption performance of diaphragm press drying device in chemical post-processing integrated equipment. <i>Case Studies in Thermal Engineering</i> , 2016, 7, 92-102.	2.8	4
85	Numerical analysis of flow and cavitation characteristics in a pilot-control globe valve with different valve core displacements. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 54-64.	1.3	29
86	Limit bending moment for pipes with two circumferential flaws under combined internal pressure and bending. <i>International Journal of Mechanical Sciences</i> , 2016, 106, 319-330.	3.6	13
87	Transmission loss analysis of thick perforated plates for valve contained pipelines. <i>Energy Conversion and Management</i> , 2016, 109, 86-93.	4.4	24
88	Energy Consumption Prediction of University Buildings in China and Strategies for Energy Efficiency Management. , 2015, , .		1
89	Numerical Simulation of Flow-Induced Noise in High Pressure Reducing Valve. <i>PLoS ONE</i> , 2015, 10, e0129050.	1.1	22
90	CFD ANALYSIS ON PRESSURE DROP OF DIMPLE JACKETED HEAT EXCHANGER IN CHEMICAL POST-PROCESSING INTEGRATED EQUIPMENT. , 2015, , .		2

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91	CFD analysis on the dynamic flow characteristics of the pilot-control globe valve. Energy Conversion and Management, 2014, 87, 220-226.	4.4	79
92	Numerical simulation and structure improvement of double throttling in a high parameter pressure reducing valve. Journal of Zhejiang University: Science A, 2013, 14, 137-146.	1.3	38
93	Research on the Optimal Design of a Pilot Valve Controlling Cut-Off Valve. Applied Mechanics and Materials, 2013, 331, 65-69.	0.2	4
94	Effect of sleeve orifices on flow performance and hydrodynamic noise in two-stage sleeve control valve. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210800.	1.1	0