Boo Cheong Khoo

List of Publications by Year
in descending order

335 papers	9,130 citations	34016 52 h-index	71532 76 g-index
340 all docs	340 docs citations	340 times ranked	5603 citing authors

#	Article	IF	Citations
1	Experimental and numerical investigation of the dynamics of an underwater explosion bubble near a resilient/rigid structure. Journal of Fluid Mechanics, 2005, 537, 387.	1.4	314
2	Ghost fluid method for strong shock impacting on material interface. Journal of Computational Physics, 2003, 190, 651-681.	1.9	244
3	Fast flow field prediction over airfoils using deep learning approach. Physics of Fluids, 2019, 31, .	1.6	231
4	An immersed interface method for viscous incompressible flows involving rigid and flexible boundaries. Journal of Computational Physics, 2006, 220, 109-138.	1.9	155
5	Morphology of Methane Hydrate Formation in Porous Media. Energy & Fuels, 2013, 27, 3364-3372.	2.5	145
6	Ice breaking by a collapsing bubble. Journal of Fluid Mechanics, 2018, 841, 287-309.	1.4	136
7	Interactions of multiple spark-generated bubbles with phase differences. Experiments in Fluids, 2009, 46, 705-724.	1.1	130
8	Isentropic one-fluid modelling of unsteady cavitating flow. Journal of Computational Physics, 2004, 201, 80-108.	1.9	125
9	Effect of particle size on erosion characteristics. Wear, 2016, 348-349, 126-137.	1.5	118
10	A Real Ghost Fluid Method for the Simulation of Multimedium Compressible Flow. SIAM Journal of Scientific Computing, 2006, 28, 278-302.	1.3	115
11	Inverse Design of Airfoil Using a Deep Convolutional Neural Network. AIAA Journal, 2019, 57, 993-1003.	1.5	112
12	Size Effect of Porous Media on Methane Hydrate Formation and Dissociation in an Excess Gas Environment. Industrial & Engineering Chemistry Research, 2016, 55, 7981-7991.	1.8	108
13	Low-dose or low-dose-rate ionizing radiation–induced bioeffects in animal models. Journal of Radiation Research, 2017, 58, 165-182.	0.8	108
14	Analysis of Stokes flow in microchannels with superhydrophobic surfaces containing a periodic array of micro-grooves. Microfluidics and Nanofluidics, 2009, 7, 353-382.	1.0	107
15	Flow past superhydrophobic surfaces containing longitudinal grooves: effects of interface curvature. Microfluidics and Nanofluidics, 2010, 9, 499-511.	1.0	103
16	A numerical study for the performance of the Runge–Kutta discontinuous Galerkin method based on different numerical fluxes. Journal of Computational Physics, 2006, 212, 540-565.	1.9	98
17	A collapsing bubble-induced micropump: An experimental study. Sensors and Actuators A: Physical, 2007, 133, 161-172.	2.0	94
18	Interaction of lithotripter shockwaves with single inertial cavitation bubbles. Journal of Fluid Mechanics, 2007, 593, 33-56.	1.4	93

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19	Microchannel flows with superhydrophobic surfaces: Effects of Reynolds number and pattern width to channel height ratio. Physics of Fluids, 2009, 21, .	1.6	93
20	Bubbles with shock waves and ultrasound: a review. Interface Focus, 2015, 5, 20150019.	1.5	93
21	Elastic mesh technique for 3D BIM simulation with an application to underwater explosion bubble dynamics. Computers and Fluids, 2003, 32, 1195-1212.	1.3	92
22	Flow around spheres by dissipative particle dynamics. Physics of Fluids, 2006, 18, 103605.	1.6	91
23	Instability of Taylorâ€"Couette flow between concentric rotating cylinders. International Journal of Thermal Sciences, 2008, 47, 1422-1435.	2.6	91
24	Dissipative particle dynamics simulation of polymer drops in a periodic shear flow. Journal of Non-Newtonian Fluid Mechanics, 2004, 118, 65-81.	1.0	90
25	On the boundary integral method for the rebounding bubble. Journal of Fluid Mechanics, 2007, 570, 407-429.	1.4	90
26	The acceleration of solid particles subjected to cavitation nucleation. Journal of Fluid Mechanics, 2008, 610, 157-182.	1.4	88
27	An implicit immersed boundary method for three-dimensional fluidâ€"membrane interactions. Journal of Computational Physics, 2009, 228, 8427-8445.	1.9	86
28	Hydraulic fracturing in a penny-shaped crack. Part II: Testing the frackability of methane hydrate-bearing sand. Journal of Natural Gas Science and Engineering, 2018, 52, 619-628.	2.1	78
29	Vortex ring modelling of toroidal bubbles. Theoretical and Computational Fluid Dynamics, 2005, 19, 303-317.	0.9	77
30	Cavitation bubble dynamics in a liquid gap of variable height. Journal of Fluid Mechanics, 2011, 682, 241-260.	1.4	77
31	Enhancement of heat transfer in turbulent channel flow over dimpled surface. International Journal of Heat and Mass Transfer, 2012, 55, 8100-8121.	2.5	72
32	Analytical solutions of the displacement and stress fields of the nanocomposite structure of biological materials. Composites Science and Technology, 2011, 71, 1190-1195.	3.8	69
33	Immersed smoothed finite element method for two dimensional fluidâ€"structure interaction problems. International Journal for Numerical Methods in Engineering, 2012, 90, 1292-1320.	1.5	68
34	Application of a one-fluid model for large scale homogeneous unsteady cavitation: The modified Schmidt model. Computers and Fluids, 2006, 35, 1177-1192.	1.3	67
35	Thermoresponsive Hydrogel Induced by Dual Supramolecular Assemblies and Its Controlled Release Property for Enhanced Anticancer Drug Delivery. Biomacromolecules, 2020, 21, 1516-1527.	2.6	67
36	Numerical analysis of a gas bubble near bio-materials in an ultrasound field. Ultrasound in Medicine and Biology, 2006, 32, 925-942.	0.7	66

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37	A collapsing bubble-induced microinjector: an experimental study. Experiments in Fluids, 2009, 46, 419-434.	1.1	65
38	Muco-ciliary transport: Effect of mucus viscosity, cilia beat frequency and cilia density. Computers and Fluids, 2011, 49, 214-221.	1.3	63
39	A three dimensional immersed smoothed finite element method (3D IS-FEM) for fluid–structure interaction problems. Computational Mechanics, 2013, 51, 129-150.	2.2	62
40	Effects of Variable Total Pressures on Instability and Extinction of Rotating Detonation Combustion. Flow, Turbulence and Combustion, 2020, 104, 261-290.	1.4	62
41	The cellular structure of a two-dimensional H2/O2/Ar detonation wave. Combustion Theory and Modelling, 2004, 8, 339-359.	1.0	61
42	Numerical simulation of nanosecond pulsed dielectric barrier discharge actuator in a quiescent flow. Physics of Fluids, 2014, 26, .	1.6	61
43	Interaction of two differently sized oscillating bubbles in a free field. Physical Review E, 2011, 84, 066307.	0.8	60
44	Boundary integral equations as applied to an oscillating bubble near a fluid-fluid interface. Computational Mechanics, 2004, 33, 129-138.	2.2	59
45	Nonspherical laser-induced cavitation bubbles. Physical Review E, 2010, 81, 016308.	0.8	58
46	On the vortex-induced oscillations of a freely vibrating cylinder in the vicinity of a stationary plane wall. Journal of Fluids and Structures, 2016, 65, 495-526.	1.5	58
47	Study of Shock and Induced Flow Dynamics by Nanosecond Dielectric-Barrier-Discharge Plasma Actuators. AIAA Journal, 2015, 53, 1336-1348.	1.5	57
48	Membrane-type acoustic metamaterial with eccentric masses for broadband sound isolation. Applied Acoustics, 2020, 157, 107003.	1.7	57
49	Giant voltage-induced deformation of a dielectric elastomer under a constant pressure. Applied Physics Letters, 2014, 105, 112901.	1.5	55
50	The simulation of compressible multi-medium flow. I. A new methodology with test applications to 1D gas–gas and gas–water cases. Computers and Fluids, 2001, 30, 291-314.	1.3	54
51	Mass transfer across the falling film: Simulations and experiments. Chemical Engineering Science, 2008, 63, 2559-2575.	1.9	54
52	Bubble-sphere interaction beneath a free surface. Ocean Engineering, 2018, 169, 469-483.	1.9	54
53	Smoothed particle hydrodynamics (SPH) modeling of fiber orientation in a 3D printing process. Physics of Fluids, 2018, 30, .	1.6	54
54	Gas Production from Methane Hydrates in a Dual Wellbore System. Energy & Fuels, 2015, 29, 35-42.	2.5	53

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55	Simulations of detonation wave propagation in rectangular ducts using a three-dimensional WENO scheme. Combustion and Flame, 2008, 154, 644-659.	2.8	52
56	Stretching and Relaxation of Malaria-Infected Red Blood Cells. Biophysical Journal, 2013, 105, 1103-1109.	0.2	47
57	Dissipative particle dynamics simulations of deformation and aggregation of healthy and diseased red blood cells in a tube flow. Physics of Fluids, 2014, 26, .	1.6	47
58	Mechanics of drag reduction by shallow dimples in channel flow. Physics of Fluids, 2015, 27, .	1.6	47
59	Study on flow separation and transition of the airfoil in low Reynolds number. Physics of Fluids, 2019, 31, .	1.6	47
60	Dissipative particle dynamics simulation of droplet suspension in shear flow at low Capillary number. Journal of Non-Newtonian Fluid Mechanics, 2014, 212, 63-72.	1.0	46
61	An immersed interface method for solving incompressible viscous flows with piecewise constant viscosity across a moving elastic membrane. Journal of Computational Physics, 2008, 227, 9955-9983.	1.9	43
62	Spark-generated bubble near an elastic sphere. International Journal of Multiphase Flow, 2017, 90, 156-166.	1.6	43
63	Investigation of airfoil leading edge separation control with nanosecond plasma actuator. Physical Review Fluids, 2016, 1, .	1.0	41
64	BEM simulations of potential flow with viscous effects as applied to a rising bubble. Engineering Analysis With Boundary Elements, 2011, 35, 489-494.	2.0	40
65	Hydraulic fracturing in a penny-shaped crack. Part I: Methodology and testing of frozen sand. Journal of Natural Gas Science and Engineering, 2018, 52, 609-618.	2.1	39
66	Enhancement of heat and mass transfer in a microchannel via passive oscillation of a flexible vortex generator. Chemical Engineering Science, 2019, 207, 556-580.	1.9	38
67	Coupled dynamics of vortex-induced vibration and stationary wall at low Reynolds number. Physics of Fluids, 2017, 29, .	1.6	37
68	Jets in quiescent bubbles caused by a nearby oscillating bubble. Journal of Applied Physics, 2012, 111, .	1.1	36
69	Efficient flapping wing drone arrests high-speed flight using post-stall soaring. Science Robotics, 2020, 5, .	9.9	36
70	A fast algorithm for modeling multiple bubbles dynamics. Journal of Computational Physics, 2006, 216, 430-453.	1.9	35
71	The simulation of cavitating flows induced by underwater shock and free surface interaction. Applied Numerical Mathematics, 2007, 57, 734-745.	1.2	35
72	A note on supersonic flow control with nanosecond plasma actuator. Physics of Fluids, 2018, 30, .	1.6	35

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73	Simulations of pressure pulse–bubble interaction using boundary element method. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4287-4302.	3.4	34
74	Determining the critical condition for turbulent transition in a full-developed annulus flow. Journal of Petroleum Science and Engineering, 2010, 73, 41-47.	2.1	34
75	A new constitutive model for monodispersed suspensions of spheres at high concentrations. Rheologica Acta, 1999, 38, 297-304.	1.1	33
76	Real-time optimization using proper orthogonal decomposition: Free surface shape prediction due to underwater bubble dynamics. Computers and Fluids, 2007, 36, 499-512.	1.3	33
77	Collapsing bubble induced pumping in a viscous fluid. Sensors and Actuators A: Physical, 2011, 169, 151-163.	2.0	33
78	Effects of interface curvature on Poiseuille flow through microchannels and microtubes containing superhydrophobic surfaces with transverse grooves and ribs. Microfluidics and Nanofluidics, 2014, 17, 891-905.	1.0	33
79	Jet orientation of a collapsing bubble near a solid wall with an attached air bubble. Physics of Fluids, 2014, 26, .	1.6	33
80	Effect of air-borne particle–particle interaction on materials erosion. Wear, 2015, 322-323, 17-31.	1.5	33
81	Boundary element analysis of the droplet dynamics induced by spark-generated bubble. Engineering Analysis With Boundary Elements, 2012, 36, 1595-1603.	2.0	32
82	Numerical investigations on the compressibility of a DPD fluid. Journal of Computational Physics, 2013, 242, 196-210.	1.9	32
83	A modified Rayleigh–Plesset model for a non-spherically symmetric oscillating bubble with applications to boundary integral methods. Engineering Analysis With Boundary Elements, 2006, 30, 59-71.	2.0	31
84	Runge–Kutta discontinuous Galerkin methods for compressible two-medium flow simulations: One-dimensional case. Journal of Computational Physics, 2007, 222, 353-373.	1.9	31
85	Interaction of two oscillating bubbles near a rigid boundary. Experimental Thermal and Fluid Science, 2013, 44, 108-113.	1.5	31
86	Mass transfer across the turbulent gas–water interface. AICHE Journal, 2006, 52, 3363-3374.	1.8	30
87	A smoothed particle hydrodynamics (SPH) formulation of a two-phase mixture model and its application to turbulent sediment transport. Physics of Fluids, 2019, 31, .	1.6	30
88	The entrainment of air by water jet impinging on a free surface. Experiments in Fluids, 2005, 39, 498-506.	1.1	29
89	Dynamic response of deformable structures subjected to shock load and cavitation reload. Computational Mechanics, 2007, 40, 667-681.	2.2	29
90	Stratification effect of air bubble on the shock wave from the collapse of cavitation bubble. Journal of Fluid Mechanics, 2021, 919, .	1.4	29

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91	A low-voltage spark-discharge method for generation of consistent oscillating bubbles. Review of Scientific Instruments, 2013, 84, 014705.	0.6	28
92	A smoothed particle hydrodynamics (SPH) study of sediment dispersion on the seafloor. Physics of Fluids, 2017, 29, .	1.6	28
93	A comparative study of alternating current and nanosecond plasma actuators in flow separation control. International Journal of Heat and Mass Transfer, 2019, 135, 1097-1117.	2.5	28
94	Low-Reynolds-number airfoil design optimization using deep-learning-based tailored airfoil modes. Aerospace Science and Technology, 2022, 121, 107309.	2.5	28
95	Concentration Dependence of Yield Stress and Dynamic Moduli of Kaolinite Suspensions. Langmuir, 2015, 31, 4791-4797.	1.6	27
96	Transient response of stiffened composite submersible hull to underwater explosion bubble. Composite Structures, 2015, 122, 229-238.	3.1	27
97	Radioprotective effect of ursolic acid in radiation-induced impairment of neurogenesis, learning and memory in adolescent BALB/c mouse. Physiology and Behavior, 2017, 175, 37-46.	1.0	27
98	Dynamics and deformation of a three-dimensional bubble rising in viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2020, 285, 104408.	1.0	27
99	Near-wall hot-wire measurements. Experiments in Fluids, 2001, 31, 494-505.	1.1	26
100	Transport across a turbulent air-water interface. AICHE Journal, 2002, 48, 1856-1868.	1.8	26
101	CRITERIA OF TURBULENT TRANSITION IN PARALLEL FLOWS. Modern Physics Letters B, 2010, 24, 1437-1440.	1.0	26
102	Investigation of Turbulent Transition in Plane Couette Flows Using Energy Gradient Method. Advances in Applied Mathematics and Mechanics, 2011, 3, 165-180.	0.7	26
103	Temperature Increase during the Depressurization of Partially Hydrate-Saturated Formations within the Stability Region. Energy & Fuels, 2013, 27, 796-803.	2.5	26
104	Effect of temperature on rheological behavior of kaolinite and bentonite suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 1-5.	2.3	26
105	Deep Learning Based Reduced Order Model for Airfoil-Gust and Aeroelastic Interaction. AIAA Journal, 2020, 58, 4304-4321.	1.5	26
106	The Modified Ghost Fluid Method for Coupling of Fluid and Structure Constituted with Hydro-Elasto-Plastic Equation of State. SIAM Journal of Scientific Computing, 2008, 30, 1105-1130.	1.3	25
107	On the modified dispersion-controlled dissipative (DCD) scheme for computation of flow supercavitation. Computers and Fluids, 2011, 40, 315-323.	1.3	25
108	RKDG methods with WENO type limiters and conservative interfacial procedure for one-dimensional compressible multi-medium flow simulations. Applied Numerical Mathematics, 2011, 61, 554-580.	1.2	25

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109	Hybridizable discontinuous Galerkin method (HDG) for Stokes interface flow. Journal of Computational Physics, 2013, 247, 262-278.	1.9	25
110	Dissipative particle dynamics modeling of low Reynolds number incompressible flows. Journal of Rheology, 2013, 57, 585-604.	1.3	25
111	Numerical modelling of a healthy/malaria-infected erythrocyte in shear flow using dissipative particle dynamics method. Journal of Applied Physics, 2014, 115, .	1.1	25
112	Effects of interface deformation on flow through microtubes containing superhydrophobic surfaces with longitudinal ribs and grooves. Microfluidics and Nanofluidics, 2014, 16, 225-236.	1.0	25
113	A note on spark bubble drop-on-demand droplet generation: simulation and experiment. International Journal of Advanced Manufacturing Technology, 2011, 56, 245-259.	1.5	24
114	The effect of shear-thinning behaviour on rod orientation in filled fluids. Journal of Fluid Mechanics, 2016, 798, 350-370.	1.4	24
115	A rheological constitutive model for semiconcentrated rod suspensions in Bingham fluids. Physics of Fluids, 2017, 29, .	1.6	24
116	Numerical evaluation of station-keeping strategies for stratospheric balloons. Aerospace Science and Technology, 2018, 80, 288-300.	2.5	24
117	DNS of low Reynolds number turbulent flows in dimpled channels. Journal of Turbulence, 2006, 7, N37.	0.5	23
118	Interaction of microbubbles with high intensity pulsed ultrasound. Journal of the Acoustical Society of America, 2008, 123, 1784-1793.	0.5	23
119	Computations of partial and super cavitating flows using implicit pressure-based algorithm (IPA). Computers and Fluids, 2013, 73, 1-9.	1.3	23
120	Dynamics of unsteady cavitating flow in compressible two-phase fluid. Ocean Engineering, 2014, 87, 174-184.	1.9	23
121	A study of detonation re-initiation through multiple reflections in a 90-degree bifurcation channel. Combustion and Flame, 2017, 180, 207-216.	2.8	23
122	Postnatal irradiation-induced hippocampal neuropathology, cognitive impairment and aging. Brain and Development, 2017, 39, 277-293.	0.6	23
123	Interaction of a spark-generated bubble with a two-layered composite beam. Journal of Fluids and Structures, 2018, 76, 336-348.	1.5	23
124	MECHANISM OF WALL TURBULENCE IN BOUNDARY LAYER FLOW. Modern Physics Letters B, 2009, 23, 457-460.	1.0	22
125	A numerical study of muco-ciliary transport under the condition of diseased cilia. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 944-951.	0.9	22
126	Fully nonlinear simulations of interactions between solitary waves and structures based on the finite element method. Ocean Engineering, 2015, 108, 202-215.	1.9	22

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127	A smoothed particle hydrodynamics simulation of fiber-filled composites in a non-isothermal three-dimensional printing process. Physics of Fluids, 2019, 31, .	1.6	22
128	Numerical simulation of fibre suspension flow through an axisymmetric contraction and expansion passages by Brownian configuration field method. Chemical Engineering Science, 2006, 61, 4998-5009.	1.9	21
129	Removal of particles from holes in submerged plates with oscillating bubbles. Physics of Fluids, 2009, 21, .	1.6	21
130	Inhibitory effect of ultrasound on barnacle (Amphibalanus amphitrite) cyprid settlement. Journal of Experimental Marine Biology and Ecology, 2011, 409, 253-258.	0.7	21
131	Normal stress differences behavior of polymeric particle suspension in shear flow. Journal of Rheology, 2014, 58, 223-235.	1.3	21
132	A spring model for suspended particles in dissipative particle dynamics. Journal of Rheology, 2014, 58, 839-867.	1.3	21
133	Numerical and experimental study on the generation and propagation of negative wave in high-pressure gas pipeline leakage. Journal of Loss Prevention in the Process Industries, 2020, 65, 104129.	1.7	21
134	Turbulent boundary layer over a compliant surface: absolute and convective instabilities. Journal of Fluid Mechanics, 2001, 449, 141-168.	1.4	20
135	MULTIPLE SPARK-GENERATED BUBBLE INTERACTIONS. Modern Physics Letters B, 2009, 23, 229-232.	1.0	20
136	Geometric criterion for RRâ†"MR transition in hypersonic double-wedge flows. Physics of Fluids, 2010, 22, .	1.6	20
137	The effect of cavitation bubbles on the removal of juvenile barnacles. Colloids and Surfaces B: Biointerfaces, 2013, 109, 219-227.	2.5	20
138	Investigation of particles size effects in Dissipative Particle Dynamics (DPD) modelling of colloidal suspensions. Computer Physics Communications, 2015, 189, 37-46.	3.0	20
139	Heat transfer enhancement and drag reduction in transverse groove-bounded microchannels with offset. International Journal of Thermal Sciences, 2018, 130, 240-255.	2.6	20
140	Dynamics of the supercavitating hydrofoil with cavitator in steady flow field. Physics of Fluids, 2020, 32, .	1.6	20
141	An immersed boundary-lattice Boltzmann method with multi relaxation time for solving flow-induced vibrations of an elastic vortex generator and its effect on heat transfer and mixing. Chemical Engineering Journal, 2021, 405, 126652.	6.6	20
142	Simulations of fibre orientation in dilute suspensions with front moving in the filling process of a rectangular channel using level-set method. Rheologica Acta, 2007, 46, 427-447.	1.1	19
143	Short-term and long-term irreversibility in particle suspensions undergoing small and large amplitude oscillatory stress. Journal of Rheology, 2013, 57, 1325-1346.	1.3	19
144	Dynamics of an oscillating bubble in a narrow gap. Physical Review E, 2013, 88, 043006.	0.8	19

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145	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. BioMed Research International, 2014, 2014, 1-10.	0.9	19
146	Studies on liquid–liquid interfacial tension with standard dissipative particle dynamics method. Molecular Simulation, 2015, 41, 1166-1176.	0.9	19
147	On peculiar behaviours at critical volumes of a three-dimensional bubble rising in viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2021, 293, 104568.	1.0	19
148	The accuracy of the modified ghost fluid method for gas–gas Riemann problem. Applied Numerical Mathematics, 2007, 57, 721-733.	1.2	18
149	A numerical and experimental study of a collapsing bubble-induced droplet ejector. Theoretical and Computational Fluid Dynamics, 2009, 23, 297-316.	0.9	18
150	Spark-generated bubble collapse near or inside a circular aperture and the ensuing vortex ring and droplet formation. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 657-666.	1.5	18
151	An immersed interface method for flow past circular cylinder in the vicinity of a plane moving wall. International Journal for Numerical Methods in Fluids, 2016, 81, 611-639.	0.9	18
152	Large Eddy Simulations of flow around two circular cylinders in tandem in the vicinity of a plane wall at small gap ratios. Journal of Fluids and Structures, 2018, 76, 251-271.	1.5	18
153	A lattice Boltzmann modeling of viscoelastic drops' deformation and breakup in simple shear flows. Physics of Fluids, 2020, 32, .	1.6	18
154	A targeted essentially non-oscillatory (TENO) SPH method and its applications in hydrodynamics. Ocean Engineering, 2022, 243, 110100.	1.9	18
155	Underwater shock-free surface-structure interaction. International Journal for Numerical Methods in Engineering, 2003, 58, 609-630.	1.5	17
156	Modeling and Simulations of Flow Pattern, Chlorine Concentration, and Mean Age Distributions in Potable Water Service Reservoir of Singapore. Journal of Environmental Engineering, ASCE, 2011, 137, 575-584.	0.7	17
157	Simulation of Wave-Flow-Cavitation Interaction Using a Compressible Homogenous Flow Method. Communications in Computational Physics, 2013, 14, 328-354.	0.7	17
158	Simulation of anisotropic diffusion processes in fluids with smoothed particle hydrodynamics. International Journal for Numerical Methods in Fluids, 2016, 82, 730-747.	0.9	17
159	Linear stability of pressure-driven flow over longitudinal superhydrophobic grooves. Physics of Fluids, 2016, 28, .	1.6	17
160	Excessively Fuel-Rich Conditions for Cold Starting of Liquid-Fuel Pulse Detonation Engines. Journal of Propulsion and Power, 2017, 33, 71-79.	1.3	17
161	Flow Separation Control over a NACA 0015 Airfoil Using Nanosecond-Pulsed Plasma Actuator. AIAA Journal, 2018, 56, 2220-2234.	1.5	17
162	Ultrasound generated by alternating current dielectric barrier discharge plasma in quiescent air. Plasma Sources Science and Technology, 2020, 29, 015017.	1.3	17

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163	High-speed jetting and spray formation from bubble collapse. Physical Review E, 2012, 85, 015303.	0.8	16
164	An immersed boundary–lattice Boltzmann approach to study the dynamics of elastic membranes in viscous shear flows. Journal of Computational Science, 2014, 5, 709-718.	1.5	16
165	Investigation of Injection Strategy for Liquid-Fuel Rotating Detonation Engine. , 2018, , .		16
166	Expansion and collapse of an initially off-centered bubble within a narrow gap and the effect of a free surface. International Journal of Multiphase Flow, 2018, 99, 62-72.	1.6	16
167	A Multimodal Intention Detection Sensor Suite for Shared Autonomy of Upper-Limb Robotic Prostheses. Sensors, 2020, 20, 6097.	2.1	16
168	A smoothed particle hydrodynamics study of a non-isothermal and thermally anisotropic fused deposition modeling process for a fiber-filled composite. Physics of Fluids, 2020, 32, .	1.6	16
169	A high-fidelity numerical study on the propulsive performance of pitching flexible plates. Physics of Fluids, 2021, 33, 051901.	1.6	16
170	Numerical Simulation of Fluid-Structure Interaction Using Modified Ghost Fluid Method and Naviers Equations. Journal of Scientific Computing, 2008, 36, 45-68.	1.1	15
171	Effect of initial disturbance on the detonation front structure of a narrow duct. Shock Waves, 2010, 20, 163-173.	1.0	15
172	Deformation and osmotic swelling of an elastic membrane capsule in Stokes flows by the immersed interface method. Chemical Engineering Science, 2010, 65, 1237-1252.	1.9	15
173	Heat transfer and flow structure on periodically dimple–protrusion patterned walls in turbulent channel flow. International Journal of Heat and Mass Transfer, 2014, 78, 871-882.	2.5	15
174	Flow enhancement in pulsating flow of non-colloidal suspensions in tubes. Journal of Non-Newtonian Fluid Mechanics, 2014, 212, 13-17.	1.0	15
175	Shear induced organization of particles in non-colloidal suspensions in steady shear flow. Journal of Non-Newtonian Fluid Mechanics, 2015, 223, 228-232.	1.0	15
176	Groove-induced changes of discharge in channel flows. Journal of Fluid Mechanics, 2016, 799, 297-333.	1.4	15
177	A dissipative particle dynamics model for thixotropic materials exhibiting pseudo-yield stress behaviour. Journal of Non-Newtonian Fluid Mechanics, 2017, 241, 1-13.	1.0	15
178	Nonlinear aeroelastic analysis of curved laminated composite panels. Composite Structures, 2017, 179, 377-414.	3.1	15
179	Flow field generated by a dielectric barrier discharge plasma actuator in quiescent air at initiation stage. Chinese Journal of Aeronautics, 2021, 34, 13-24.	2.8	15
180	Study on the cavitation effects induced by the interaction between underwater blast and various boundaries. Ocean Engineering, 2021, 222, 108596.	1.9	15

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181	Towards a larger scale energy harvesting from falling water droplets with an improved electrode configuration. Applied Energy, 2021, 285, 116428.	5.1	15
182	Wave Mode Dynamics in an Ethylene-Air Rotating Detonation Combustor. AIAA Journal, 2021, 59, 1808-1823.	1.5	15
183	RKDG methods with WENO limiters for unsteady cavitating flow. Computers and Fluids, 2012, 57, 52-65.	1.3	14
184	Shape effect on mixing and age distributions in service reservoirs. Journal - American Water Works Association, 2014, 106, E481.	0.2	14
185	Steady-shear rheological properties for suspensions of axisymmetric particles in second-order fluids. Journal of Non-Newtonian Fluid Mechanics, 2017, 239, 62-72.	1.0	14
186	Harnessing Dielectric Breakdown of Dielectric Elastomer to Achieve Large Actuation. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	14
187	Hydrodynamic loads and wake dynamics of ducted propeller in oblique flow conditions. Ships and Offshore Structures, 2020, 15, 645-660.	0.9	14
188	Hydrodynamic interaction and coalescence of two inline bubbles rising in a viscoelastic liquid. Physics of Fluids, 2021, 33, .	1.6	14
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