

Boo Cheong Khoo

List of Publications by Citations

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315
papers

6,618
citations

44
h-index

64
g-index

340
ext. papers

7,781
ext. citations

3.3
avg, IF

6.4
L-index

#	Paper	IF	Citations
3 ¹⁵	Experimental and numerical investigation of the dynamics of an underwater explosion bubble near a resilient/rigid structure. <i>Journal of Fluid Mechanics</i> , 2005 , 537, 387	3.7	252
3 ¹⁴	Ghost fluid method for strong shock impacting on material interface. <i>Journal of Computational Physics</i> , 2003 , 190, 651-681	4.1	210
3 ¹³	An immersed interface method for viscous incompressible flows involving rigid and flexible boundaries. <i>Journal of Computational Physics</i> , 2006 , 220, 109-138	4.1	144
3 ¹²	Morphology of Methane Hydrate Formation in Porous Media. <i>Energy & Fuels</i> , 2013 , 27, 3364-3372	4.1	109
3 ¹¹	Interactions of multiple spark-generated bubbles with phase differences. <i>Experiments in Fluids</i> , 2009 , 46, 705-724	2.5	100
3 ¹⁰	Isentropic one-fluid modelling of unsteady cavitating flow. <i>Journal of Computational Physics</i> , 2004 , 201, 80-108	4.1	100
3 ⁰⁹	A Real Ghost Fluid Method for the Simulation of Multimediuum Compressible Flow. <i>SIAM Journal of Scientific Computing</i> , 2006 , 28, 278-302	2.6	99
3 ⁰⁸	Ice breaking by a collapsing bubble. <i>Journal of Fluid Mechanics</i> , 2018 , 841, 287-309	3.7	96
3 ⁰⁷	Flow past superhydrophobic surfaces containing longitudinal grooves: effects of interface curvature. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 499-511	2.8	90
3 ⁰⁶	Analysis of Stokes flow in microchannels with superhydrophobic surfaces containing a periodic array of micro-grooves. <i>Microfluidics and Nanofluidics</i> , 2009 , 7, 353-382	2.8	86
3 ⁰⁵	Fast flow field prediction over airfoils using deep learning approach. <i>Physics of Fluids</i> , 2019 , 31, 057103	4.4	85
3 ⁰⁴	Dissipative particle dynamics simulation of polymer drops in a periodic shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2004 , 118, 65-81	2.7	85
3 ⁰³	Flow around spheres by dissipative particle dynamics. <i>Physics of Fluids</i> , 2006 , 18, 103605	4.4	81
3 ⁰²	A numerical study for the performance of the Runge-Kutta discontinuous Galerkin method based on different numerical fluxes. <i>Journal of Computational Physics</i> , 2006 , 212, 540-565	4.1	81
3 ⁰¹	Microchannel flows with superhydrophobic surfaces: Effects of Reynolds number and pattern width to channel height ratio. <i>Physics of Fluids</i> , 2009 , 21, 122004	4.4	80
3 ⁰⁰	Interaction of lithotripter shockwaves with single inertial cavitation bubbles. <i>Journal of Fluid Mechanics</i> , 2007 , 593, 33-56	3.7	77
2 ⁹⁹	A collapsing bubble-induced micropump: An experimental study. <i>Sensors and Actuators A: Physical</i> , 2007 , 133, 161-172	3.9	76

298	Effect of particle size on erosion characteristics. <i>Wear</i> , 2016 , 348-349, 126-137	3.5	75
297	An implicit immersed boundary method for three-dimensional fluid-membrane interactions. <i>Journal of Computational Physics</i> , 2009 , 228, 8427-8445	4.1	75
296	On the boundary integral method for the rebounding bubble. <i>Journal of Fluid Mechanics</i> , 2007 , 570, 407-429	3.7	75
295	Instability of Taylor-Couette flow between concentric rotating cylinders. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 1422-1435	4.1	75
294	Size Effect of Porous Media on Methane Hydrate Formation and Dissociation in an Excess Gas Environment. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7981-7991	3.9	73
293	Low-dose or low-dose-rate ionizing radiation-induced bioeffects in animal models. <i>Journal of Radiation Research</i> , 2017 , 58, 165-182	2.4	70
292	Elastic mesh technique for 3D BIM simulation with an application to underwater explosion bubble dynamics. <i>Computers and Fluids</i> , 2003 , 32, 1195-1212	2.8	70
291	The acceleration of solid particles subjected to cavitation nucleation. <i>Journal of Fluid Mechanics</i> , 2008 , 610, 157-182	3.7	69
290	Analytical solutions of the displacement and stress fields of the nanocomposite structure of biological materials. <i>Composites Science and Technology</i> , 2011 , 71, 1190-1195	8.6	64
289	Vortex ring modelling of toroidal bubbles. <i>Theoretical and Computational Fluid Dynamics</i> , 2005 , 19, 303-317	3.7	63
288	Bubbles with shock waves and ultrasound: a review. <i>Interface Focus</i> , 2015 , 5, 20150019	3.9	62
287	Immersed smoothed finite element method for two dimensional fluid-structure interaction problems. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 90, 1292-1320	2.4	59
286	Numerical analysis of a gas bubble near bio-materials in an ultrasound field. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 925-42	3.5	59
285	A collapsing bubble-induced microinjector: an experimental study. <i>Experiments in Fluids</i> , 2009 , 46, 419-434	3.5	57
284	Cavitation bubble dynamics in a liquid gap of variable height. <i>Journal of Fluid Mechanics</i> , 2011 , 682, 241-260	3.9	55
283	Inverse Design of Airfoil Using a Deep Convolutional Neural Network. <i>AIAA Journal</i> , 2019 , 57, 993-1003	2.1	55
282	Application of a one-fluid model for large scale homogeneous unsteady cavitation: The modified Schmidt model. <i>Computers and Fluids</i> , 2006 , 35, 1177-1192	2.8	54
281	A three dimensional immersed smoothed finite element method (3D IS-FEM) for fluid-structure interaction problems. <i>Computational Mechanics</i> , 2013 , 51, 129-150	4	53

280	Enhancement of heat transfer in turbulent channel flow over dimpled surface. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 8100-8121	4.9	53
279	Nonspherical laser-induced cavitation bubbles. <i>Physical Review E</i> , 2010 , 81, 016308	2.4	52
278	The simulation of compressible multi-medium flow. I. A new methodology with test applications to 1D gas-gas and gas-water cases. <i>Computers and Fluids</i> , 2001 , 30, 291-314	2.8	51
277	Numerical simulation of nanosecond pulsed dielectric barrier discharge actuator in a quiescent flow. <i>Physics of Fluids</i> , 2014 , 26, 036102	4.4	49
276	The cellular structure of a two-dimensional H ₂ /O ₂ /Ar detonation wave. <i>Combustion Theory and Modelling</i> , 2004 , 8, 339-359	1.5	49
275	Mass transfer across the falling film: Simulations and experiments. <i>Chemical Engineering Science</i> , 2008 , 63, 2559-2575	4.4	47
274	Boundary integral equations as applied to an oscillating bubble near a fluid-fluid interface. <i>Computational Mechanics</i> , 2004 , 33, 129-138	4	46
273	Muco-ciliary transport: Effect of mucus viscosity, cilia beat frequency and cilia density. <i>Computers and Fluids</i> , 2011 , 49, 214-221	2.8	45
272	Hydraulic fracturing in a penny-shaped crack. Part II: Testing the frackability of methane hydrate-bearing sand. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 52, 619-628	4.6	44
271	Interaction of two differently sized oscillating bubbles in a free field. <i>Physical Review E</i> , 2011 , 84, 066307	2.4	43
270	Study of Shock and Induced Flow Dynamics by Nanosecond Dielectric-Barrier-Discharge Plasma Actuators. <i>AIAA Journal</i> , 2015 , 53, 1336-1348	2.1	41
269	Stretching and relaxation of malaria-infected red blood cells. <i>Biophysical Journal</i> , 2013 , 105, 1103-9	2.9	41
268	Gas Production from Methane Hydrates in a Dual Wellbore System. <i>Energy & Fuels</i> , 2015 , 29, 35-42	4.1	41
267	Giant voltage-induced deformation of a dielectric elastomer under a constant pressure. <i>Applied Physics Letters</i> , 2014 , 105, 112901	3.4	41
266	Dissipative particle dynamics simulation of droplet suspension in shear flow at low Capillary number. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014 , 212, 63-72	2.7	40
265	Dissipative particle dynamics simulations of deformation and aggregation of healthy and diseased red blood cells in a tube flow. <i>Physics of Fluids</i> , 2014 , 26, 111902	4.4	39
264	Simulations of detonation wave propagation in rectangular ducts using a three-dimensional WENO scheme. <i>Combustion and Flame</i> , 2008 , 154, 644-659	5.3	39
263	An immersed interface method for solving incompressible viscous flows with piecewise constant viscosity across a moving elastic membrane. <i>Journal of Computational Physics</i> , 2008 , 227, 9955-9983	4.1	39

262	Thermoresponsive Hydrogel Induced by Dual Supramolecular Assemblies and Its Controlled Release Property for Enhanced Anticancer Drug Delivery. <i>Biomacromolecules</i> , 2020 , 21, 1516-1527	6.9	36
261	On the vortex-induced oscillations of a freely vibrating cylinder in the vicinity of a stationary plane wall. <i>Journal of Fluids and Structures</i> , 2016 , 65, 495-526	3.1	36
260	Bubble-sphere interaction beneath a free surface. <i>Ocean Engineering</i> , 2018 , 169, 469-483	3.9	36
259	Smoothed particle hydrodynamics (SPH) modeling of fiber orientation in a 3D printing process. <i>Physics of Fluids</i> , 2018 , 30, 103103	4.4	35
258	BEM simulations of potential flow with viscous effects as applied to a rising bubble. <i>Engineering Analysis With Boundary Elements</i> , 2011 , 35, 489-494	2.6	34
257	Effects of Variable Total Pressures on Instability and Extinction of Rotating Detonation Combustion. <i>Flow, Turbulence and Combustion</i> , 2020 , 104, 261-290	2.5	32
256	Determining the critical condition for turbulent transition in a full-developed annulus flow. <i>Journal of Petroleum Science and Engineering</i> , 2010 , 73, 41-47	4.4	31
255	Real-time optimization using proper orthogonal decomposition: Free surface shape prediction due to underwater bubble dynamics. <i>Computers and Fluids</i> , 2007 , 36, 499-512	2.8	31
254	Spark-generated bubble near an elastic sphere. <i>International Journal of Multiphase Flow</i> , 2017 , 90, 156-166	3.6	30
253	Numerical investigations on the compressibility of a DPD fluid. <i>Journal of Computational Physics</i> , 2013 , 242, 196-210	4.1	30
252	Jets in quiescent bubbles caused by a nearby oscillating bubble. <i>Journal of Applied Physics</i> , 2012 , 111, 054912	2.5	30
251	Membrane-type acoustic metamaterial with eccentric masses for broadband sound isolation. <i>Applied Acoustics</i> , 2020 , 157, 107003	3.1	30
250	The simulation of cavitating flows induced by underwater shock and free surface interaction. <i>Applied Numerical Mathematics</i> , 2007 , 57, 734-745	2.5	29
249	A modified Rayleigh-Plesset model for a non-spherically symmetric oscillating bubble with applications to boundary integral methods. <i>Engineering Analysis With Boundary Elements</i> , 2006 , 30, 59-71	2.6	29
248	Simulations of pressure pulseBubble interaction using boundary element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 4287-4302	5.7	29
247	A new constitutive model for monodispersed suspensions of spheres at high concentrations. <i>Rheologica Acta</i> , 1999 , 38, 297-304	2.3	29
246	Runge-Kutta discontinuous Galerkin methods for compressible two-medium flow simulations: One-dimensional case. <i>Journal of Computational Physics</i> , 2007 , 222, 353-373	4.1	28
245	Investigation of airfoil leading edge separation control with nanosecond plasma actuator. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	27

244	Effects of interface curvature on Poiseuille flow through microchannels and microtubes containing superhydrophobic surfaces with transverse grooves and ribs. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 891-905	2.8	26
243	Mechanics of drag reduction by shallow dimples in channel flow. <i>Physics of Fluids</i> , 2015 , 27, 035109	4.4	25
242	Boundary element analysis of the droplet dynamics induced by spark-generated bubble. <i>Engineering Analysis With Boundary Elements</i> , 2012 , 36, 1595-1603	2.6	25
241	Mass transfer across the turbulent gas-water interface. <i>AIChE Journal</i> , 2006 , 52, 3363-3374	3.6	25
240	The entrainment of air by water jet impinging on a free surface. <i>Experiments in Fluids</i> , 2005 , 39, 498-506	2.5	25
239	A note on supersonic flow control with nanosecond plasma actuator. <i>Physics of Fluids</i> , 2018 , 30, 040907	4.4	24
238	Effects of interface deformation on flow through microtubes containing superhydrophobic surfaces with longitudinal ribs and grooves. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 225-236	2.8	24
237	Investigation of Turbulent Transition in Plane Couette Flows Using Energy Gradient Method. <i>Advances in Applied Mathematics and Mechanics</i> , 2011 , 3, 165-180	2.1	24
236	Effect of air-borne particle-particle interaction on materials erosion. <i>Wear</i> , 2015 , 322-323, 17-31	3.5	23
235	Interaction of two oscillating bubbles near a rigid boundary. <i>Experimental Thermal and Fluid Science</i> , 2013 , 44, 108-113	3	23
234	Dissipative particle dynamics modeling of low Reynolds number incompressible flows. <i>Journal of Rheology</i> , 2013 , 57, 585-604	4.1	23
233	RKDG methods with WENO type limiters and conservative interfacial procedure for one-dimensional compressible multi-medium flow simulations. <i>Applied Numerical Mathematics</i> , 2011 , 61, 554-580	2.5	23
232	Dynamic response of deformable structures subjected to shock load and cavitation reload. <i>Computational Mechanics</i> , 2007 , 40, 667-681	4	23
231	Transport across a turbulent air-water interface. <i>AIChE Journal</i> , 2002 , 48, 1856-1868	3.6	23
230	Transient response of stiffened composite submersible hull to underwater explosion bubble. <i>Composite Structures</i> , 2015 , 122, 229-238	5.3	22
229	A smoothed particle hydrodynamics (SPH) study of sediment dispersion on the seafloor. <i>Physics of Fluids</i> , 2017 , 29, 083302	4.4	22
228	Dynamics of unsteady cavitating flow in compressible two-phase fluid. <i>Ocean Engineering</i> , 2014 , 87, 174-184	3.4	22
227	A note on spark bubble drop-on-demand droplet generation: simulation and experiment. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 56, 245-259	3.2	22

226	Collapsing bubble induced pumping in a viscous fluid. <i>Sensors and Actuators A: Physical</i> , 2011 , 169, 151-163	2.3	22
225	The Modified Ghost Fluid Method for Coupling of Fluid and Structure Constituted with Hydro-Elasto-Plastic Equation of State. <i>SIAM Journal of Scientific Computing</i> , 2008 , 30, 1105-1130	2.6	22
224	A fast algorithm for modeling multiple bubbles dynamics. <i>Journal of Computational Physics</i> , 2006 , 216, 430-453	4.1	22
223	Jet orientation of a collapsing bubble near a solid wall with an attached air bubble. <i>Physics of Fluids</i> , 2014 , 26, 042103	4.4	21
222	A low-voltage spark-discharge method for generation of consistent oscillating bubbles. <i>Review of Scientific Instruments</i> , 2013 , 84, 014705	1.7	21
221	Coupled dynamics of vortex-induced vibration and stationary wall at low Reynolds number. <i>Physics of Fluids</i> , 2017 , 29, 093601	4.4	21
220	Numerical modelling of a healthy/malaria-infected erythrocyte in shear flow using dissipative particle dynamics method. <i>Journal of Applied Physics</i> , 2014 , 115, 224701	2.5	21
219	On the modified dispersion-controlled dissipative (DCD) scheme for computation of flow supercavitation. <i>Computers and Fluids</i> , 2011 , 40, 315-323	2.8	21
218	CRITERIA OF TURBULENT TRANSITION IN PARALLEL FLOWS. <i>Modern Physics Letters B</i> , 2010 , 24, 1437-1440	4.0	21
217	Hydraulic fracturing in a penny-shaped crack. Part I: Methodology and testing of frozen sand. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 52, 609-618	4.6	20
216	A spring model for suspended particles in dissipative particle dynamics. <i>Journal of Rheology</i> , 2014 , 58, 839-867	4.1	20
215	Computations of partial and super cavitating flows using implicit pressure-based algorithm (IPA). <i>Computers and Fluids</i> , 2013 , 73, 1-9	2.8	20
214	The effect of cavitation bubbles on the removal of juvenile barnacles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 109, 219-27	6	20
213	Temperature Increase during the Depressurization of Partially Hydrate-Saturated Formations within the Stability Region. <i>Energy & Fuels</i> , 2013 , 27, 796-803	4.1	20
212	MECHANISM OF WALL TURBULENCE IN BOUNDARY LAYER FLOW. <i>Modern Physics Letters B</i> , 2009 , 23, 457-460	1.6	20
211	Interaction of microbubbles with high intensity pulsed ultrasound. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, 1784-93	2.2	20
210	Radioprotective effect of ursolic acid in radiation-induced impairment of neurogenesis, learning and memory in adolescent BALB/c mouse. <i>Physiology and Behavior</i> , 2017 , 175, 37-46	3.5	19
209	Effect of temperature on rheological behavior of kaolinite and bentonite suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 506, 1-5	5.1	19

208	Turbulent boundary layer over a compliant surface: absolute and convective instabilities. <i>Journal of Fluid Mechanics</i> , 2001 , 449, 141-168	3.7	19
207	The effect of shear-thinning behaviour on rod orientation in filled fluids. <i>Journal of Fluid Mechanics</i> , 2016 , 798, 350-370	3.7	19
206	Enhancement of heat and mass transfer in a microchannel via passive oscillation of a flexible vortex generator. <i>Chemical Engineering Science</i> , 2019 , 207, 556-580	4.4	18
205	A smoothed particle hydrodynamics (SPH) formulation of a two-phase mixture model and its application to turbulent sediment transport. <i>Physics of Fluids</i> , 2019 , 31, 103303	4.4	18
204	A numerical study of muco-ciliary transport under the condition of diseased cilia. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 944-951	2.1	18
203	Studies on liquid-liquid interfacial tension with standard dissipative particle dynamics method. <i>Molecular Simulation</i> , 2015 , 41, 1166-1176	2	18
202	DNS of low Reynolds number turbulent flows in dimpled channels. <i>Journal of Turbulence</i> , 2006 , 7, N37	2.1	18
201	Numerical simulation of fibre suspension flow through an axisymmetric contraction and expansion passages by Brownian configuration field method. <i>Chemical Engineering Science</i> , 2006 , 61, 4998-5009	4.4	18
200	Concentration dependence of yield stress and dynamic moduli of kaolinite suspensions. <i>Langmuir</i> , 2015 , 31, 4791-7	4	17
199	Study on flow separation and transition of the airfoil in low Reynolds number. <i>Physics of Fluids</i> , 2019 , 31, 103601	4.4	17
198	Dynamics of an oscillating bubble in a narrow gap. <i>Physical Review E</i> , 2013 , 88, 043006	2.4	17
197	Inhibitory effect of ultrasound on barnacle (<i>Amphibalanus amphitrite</i>) cyprid settlement. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011 , 409, 253-258	2.1	17
196	MULTIPLE SPARK-GENERATED BUBBLE INTERACTIONS. <i>Modern Physics Letters B</i> , 2009 , 23, 229-232	1.6	17
195	Simulations of fibre orientation in dilute suspensions with front moving in the filling process of a rectangular channel using level-set method. <i>Rheologica Acta</i> , 2007 , 46, 427-447	2.3	17
194	Investigation of particles size effects in Dissipative Particle Dynamics (DPD) modelling of colloidal suspensions. <i>Computer Physics Communications</i> , 2015 , 189, 37-46	4.2	16
193	Hybridizable discontinuous Galerkin method (HDG) for Stokes interface flow. <i>Journal of Computational Physics</i> , 2013 , 247, 262-278	4.1	16
192	Short-term and long-term irreversibility in particle suspensions undergoing small and large amplitude oscillatory stress. <i>Journal of Rheology</i> , 2013 , 57, 1325-1346	4.1	16
191	Numerical simulation and clinical implications of stenosis in coronary blood flow. <i>BioMed Research International</i> , 2014 , 2014, 514729	3	16

190	Removal of particles from holes in submerged plates with oscillating bubbles. <i>Physics of Fluids</i> , 2009 , 21, 083304	4.4	16
189	A numerical and experimental study of a collapsing bubble-induced droplet ejector. <i>Theoretical and Computational Fluid Dynamics</i> , 2009 , 23, 297-316	2.3	16
188	The accuracy of the modified ghost fluid method for gas-gas Riemann problem. <i>Applied Numerical Mathematics</i> , 2007 , 57, 721-733	2.5	16
187	Near-wall hot-wire measurements. <i>Experiments in Fluids</i> , 2001 , 31, 494-505	2.5	16
186	Interaction of a spark-generated bubble with a two-layered composite beam. <i>Journal of Fluids and Structures</i> , 2018 , 76, 336-348	3.1	16
185	Flow Separation Control over a NACA 0015 Airfoil Using Nanosecond-Pulsed Plasma Actuator. <i>AIAA Journal</i> , 2018 , 56, 2220-2234	2.1	15
184	Normal stress differences behavior of polymeric particle suspension in shear flow. <i>Journal of Rheology</i> , 2014 , 58, 223-235	4.1	15
183	A rheological constitutive model for semiconcentrated rod suspensions in Bingham fluids. <i>Physics of Fluids</i> , 2017 , 29, 073103	4.4	15
182	Postnatal irradiation-induced hippocampal neuropathology, cognitive impairment and aging. <i>Brain and Development</i> , 2017 , 39, 277-293	2.2	15
181	A study of detonation re-initiation through multiple reflections in a 90-degree bifurcation channel. <i>Combustion and Flame</i> , 2017 , 180, 207-216	5.3	14
180	A comparative study of alternating current and nanosecond plasma actuators in flow separation control. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 1097-1117	4.9	14
179	Numerical evaluation of station-keeping strategies for stratospheric balloons. <i>Aerospace Science and Technology</i> , 2018 , 80, 288-300	4.9	14
178	Fully nonlinear simulations of interactions between solitary waves and structures based on the finite element method. <i>Ocean Engineering</i> , 2015 , 108, 202-215	3.9	14
177	Modeling and Simulations of Flow Pattern, Chlorine Concentration, and Mean Age Distributions in Potable Water Service Reservoir of Singapore. <i>Journal of Environmental Engineering, ASCE</i> , 2011 , 137, 575-584	2	14
176	Effect of initial disturbance on the detonation front structure of a narrow duct. <i>Shock Waves</i> , 2010 , 20, 163-173	1.6	14
175	Deformation and osmotic swelling of an elastic membrane capsule in Stokes flows by the immersed interface method. <i>Chemical Engineering Science</i> , 2010 , 65, 1237-1252	4.4	14
174	An immersed boundary Lattice Boltzmann approach to study the dynamics of elastic membranes in viscous shear flows. <i>Journal of Computational Science</i> , 2014 , 5, 709-718	3.4	13
173	Simulation of Wave-Flow-Cavitation Interaction Using a Compressible Homogenous Flow Method. <i>Communications in Computational Physics</i> , 2013 , 14, 328-354	2.4	13

172	High-speed jetting and spray formation from bubble collapse. <i>Physical Review E</i> , 2012 , 85, 015303	2.4	13
171	Large Eddy Simulations of flow around two circular cylinders in tandem in the vicinity of a plane wall at small gap ratios. <i>Journal of Fluids and Structures</i> , 2018 , 76, 251-271	3.1	13
170	A dissipative particle dynamics model for thixotropic materials exhibiting pseudo-yield stress behaviour. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017 , 241, 1-13	2.7	12
169	Steady-shear rheological properties for suspensions of axisymmetric particles in second-order fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017 , 239, 62-72	2.7	12
168	Harnessing Dielectric Breakdown of Dielectric Elastomer to Achieve Large Actuation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017 , 84,	2.7	12
167	Expansion and collapse of an initially off-centered bubble within a narrow gap and the effect of a free surface. <i>International Journal of Multiphase Flow</i> , 2018 , 99, 62-72	3.6	12
166	An immersed interface method for flow past circular cylinder in the vicinity of a plane moving wall. <i>International Journal for Numerical Methods in Fluids</i> , 2016 , 81, 611-639	1.9	12
165	Flow enhancement in pulsating flow of non-colloidal suspensions in tubes. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014 , 212, 13-17	2.7	12
164	Spark-generated bubble collapse near or inside a circular aperture and the ensuing vortex ring and droplet formation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013 , 29, 657-666	2	12
163	The Modified Ghost Fluid Method Applied to Fluid-Elastic Structure Interaction. <i>Advances in Applied Mathematics and Mechanics</i> , 2011 , 3, 611-632	2.1	12
162	Underwater shock-free surface-structure interaction. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 58, 609-630	2.4	12
161	Efficient flapping wing drone arrests high-speed flight using post-stall soaring. <i>Science Robotics</i> , 2020 , 5,	18.6	12
160	Heat transfer enhancement and drag reduction in transverse groove-bounded microchannels with offset. <i>International Journal of Thermal Sciences</i> , 2018 , 130, 240-255	4.1	12
159	Shear induced organization of particles in non-colloidal suspensions in steady shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015 , 223, 228-232	2.7	11
158	Fast centroidal Voronoi Delaunay triangulation for unstructured mesh generation. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 280, 158-173	2.4	11
157	RKDG methods with WENO limiters for unsteady cavitating flow. <i>Computers and Fluids</i> , 2012 , 57, 52-65	2.8	11
156	Characterizing bubble dynamics created by high-intensity focused ultrasound for the delivery of antibacterial nanoparticles into a dental hard tissue. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010 , 224, 1285-96	1.7	11
155	Geometric criterion for RR<-MR transition in hypersonic double-wedge flows. <i>Physics of Fluids</i> , 2010 , 22, 016101	4.4	11

154	Numerical Simulation of Fluid-Structure Interaction Using Modified Ghost Fluid Method and Naviers Equations. <i>Journal of Scientific Computing</i> , 2008 , 36, 45-68	2.3	11
153	The evolution of a detonation wave in a variable cross-sectional chamber. <i>Shock Waves</i> , 2008 , 18, 213-233	3.6	11
152	Stratification effect of air bubble on the shock wave from the collapse of cavitation bubble. <i>Journal of Fluid Mechanics</i> , 2021 , 919,	3.7	11
151	Simulation of anisotropic diffusion processes in fluids with smoothed particle hydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2016 , 82, 730-747	1.9	11
150	A smoothed particle hydrodynamics simulation of fiber-filled composites in a non-isothermal three-dimensional printing process. <i>Physics of Fluids</i> , 2019 , 31, 123102	4.4	11
149	A smoothed particle hydrodynamics (SPH) study on polydisperse sediment from technical activities on seabed. <i>Physics of Fluids</i> , 2018 , 30, 023302	4.4	10
148	Destabilization of clouds of monodisperse and polydisperse particles falling in a quiescent and viscous fluid. <i>Physics of Fluids</i> , 2016 , 28, 063305	4.4	10
147	The ghost solid method for the elastic solid-solid interface. <i>Journal of Computational Physics</i> , 2014 , 257, 102-125	4.1	10
146	Excessively Fuel-Rich Conditions for Cold Starting of Liquid-Fuel Pulse Detonation Engines. <i>Journal of Propulsion and Power</i> , 2017 , 33, 71-79	1.8	10
145	Shape effect on mixing and age distributions in service reservoirs. <i>Journal - American Water Works Association</i> , 2014 , 106, E481-E491	0.5	10
144	Characterization of the interaction of two oscillating bubbles near a thin elastic membrane. <i>Experiments in Fluids</i> , 2012 , 53, 1723-1735	2.5	10
143	Computing bounds to mixed-mode stress intensity factors in elasticity. <i>Archive of Applied Mechanics</i> , 2006 , 75, 193-209	2.2	10
142	Dynamics and deformation of a three-dimensional bubble rising in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020 , 285, 104408	2.7	10
141	Deep Learning Based Reduced Order Model for Airfoil-Gust and Aeroelastic Interaction. <i>AIAA Journal</i> , 2020 , 58, 4304-4321	2.1	10
140	A high-fidelity numerical study on the propulsive performance of pitching flexible plates. <i>Physics of Fluids</i> , 2021 , 33, 051901	4.4	10
139	Heat transfer and flow structure on periodically dimple-protrusion patterned walls in turbulent channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 871-882	4.9	9
138	Rheology of bubble suspensions using dissipative particle dynamics. Part I: A hard-core DPD particle model for gas bubbles. <i>Journal of Rheology</i> , 2013 , 57, 1715-1737	4.1	9
137	Nonlinear aeroelastic analysis of curved laminated composite panels. <i>Composite Structures</i> , 2017 , 179, 377-414	5.3	9

136	Effects of Baffle Configurations on the Performance of a Potable Water Service Reservoir. <i>Journal of Environmental Engineering, ASCE</i> , 2012 , 138, 578-587	2	9
135	Kinetic energy fix for low internal energy flows. <i>Journal of Computational Physics</i> , 2004 , 193, 243-259	4.1	9
134	A lattice Boltzmann modeling of viscoelastic drops deformation and breakup in simple shear flows. <i>Physics of Fluids</i> , 2020 , 32, 123101	4.4	9
133	Linear stability of pressure-driven flow over longitudinal superhydrophobic grooves. <i>Physics of Fluids</i> , 2016 , 28, 022001	4.4	9
132	Lithotripter shock wave interaction with a bubble near various biomaterials. <i>Physics in Medicine and Biology</i> , 2016 , 61, 7031-7053	3.8	9
131	The simulation of compressible multi-fluid multi-solid interactions using the modified ghost method. <i>Computers and Fluids</i> , 2017 , 154, 12-26	2.8	8
130	A three-dimensional smoothed particle hydrodynamics dispersion simulation of polydispersed sediment on the seafloor using a message passing interface algorithm. <i>Physics of Fluids</i> , 2019 , 31, 043301	4.4	8
129	A smoothed particle hydrodynamics study of a non-isothermal and thermally anisotropic fused deposition modeling process for a fiber-filled composite. <i>Physics of Fluids</i> , 2020 , 32, 053106	4.4	8
128	Numerical and experimental study on the generation and propagation of negative wave in high-pressure gas pipeline leakage. <i>Journal of Loss Prevention in the Process Industries</i> , 2020 , 65, 104129	3.5	8
127	Stability of boundary layer flow based on energy gradient theory. <i>Modern Physics Letters B</i> , 2018 , 32, 1840003	1.6	8
126	Effect of ultrasound on cyprid footprint and juvenile barnacle adhesion on a fouling release material. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 115, 118-24	6	8
125	An Implementation of MAC Grid-Based IIM-Stokes Solver for Incompressible Two-Phase Flows. <i>Communications in Computational Physics</i> , 2011 , 10, 1333-1362	2.4	8
124	Jets and sprays arising from a spark-induced oscillating bubble near a plate with a hole. <i>Physical Review E</i> , 2012 , 86, 036309	2.4	8
123	An Immersed Interface Method for the Simulation of Inextensible Interfaces in Viscous Fluids. <i>Communications in Computational Physics</i> , 2012 , 11, 925-950	2.4	8
122	BEHAVIOR OF OSCILLATING BUBBLES NEAR ELASTIC MEMBRANES: AN EXPERIMENTAL AND NUMERICAL STUDY. <i>Modern Physics Letters B</i> , 2005 , 19, 1579-1582	1.6	8
121	Ultrasound generated by alternating current dielectric barrier discharge plasma in quiescent air. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 015017	3.5	8
120	Dynamics of the supercavitating hydrofoil with cavitator in steady flow field. <i>Physics of Fluids</i> , 2020 , 32, 123307	4.4	8
119	Flow patterns and red blood cell dynamics in a U-bend. <i>Journal of Applied Physics</i> , 2018 , 124, 124701	2.5	8

118	Thermal or electrical bulk properties of rod-filled composites. <i>International Journal of Engineering Science</i> , 2018 , 133, 219-230	5.7	8
117	Reduced-Order Modeling of Stratospheric Winds and Its Application in High-Altitude Balloon Trajectory Simulations. <i>Journal of Applied Meteorology and Climatology</i> , 2017 , 56, 1753-1766	2.7	7
116	Supercavitation phenomenon research of projectiles passing through density change area. <i>AIP Advances</i> , 2019 , 9, 045303	1.5	7
115	Boundary regularized integral equation formulation of Stokes flow. <i>Physics of Fluids</i> , 2015 , 27, 023102	4.4	7
114	The ghost solid methods for the elastic-plastic solid-solid interface and the ϵ -criterion. <i>Journal of Computational Physics</i> , 2015 , 302, 618-652	4.1	7
113	A Multimodal Intention Detection Sensor Suite for Shared Autonomy of Upper-Limb Robotic Prostheses. <i>Sensors</i> , 2020 , 20,	3.8	7
112	Investigation of Injection Strategy for Liquid-Fuel Rotating Detonation Engine 2018 ,		7
111	Experimental study on incident wave speed and the mechanisms of deflagration-to-detonation transition in a bent geometry. <i>Shock Waves</i> , 2018 , 28, 205-216	1.6	7
110	Comparison of Constant and Discontinuous Quadratic Boundary Elements for Exterior Axisymmetric Acoustic-Wave Propagation Problems. <i>Journal of Computational Acoustics</i> , 2015 , 23, 1540003		7
109	Application of desingularized approach to water wave propagation over three-dimensional topography. <i>Ocean Engineering</i> , 2007 , 34, 1449-1458	3.9	7
108	Numerical study on wide gap Taylor Couette flow with flow transition. <i>Physics of Fluids</i> , 2019 , 31, 113606	4.4	7
107	Hydrodynamic loads and wake dynamics of ducted propeller in oblique flow conditions. <i>Ships and Offshore Structures</i> , 2020 , 15, 645-660	1.4	7
106	On evolution of flow structures induced by nanosecond pulse discharge inside a plasma synthetic jet actuator. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 028002	1.4	6
105	On the numerical technique for the simulation of hypervelocity test flows. <i>Computers and Fluids</i> , 2015 , 106, 12-18	2.8	6
104	Model reduction for reacting flow applications. <i>International Journal of Computational Fluid Dynamics</i> , 2014 , 28, 91-105	1.2	6
103	Energy gradient method for turbulent transition with consideration of effect of disturbance frequency. <i>Journal of Hydrodynamics</i> , 2010 , 22, 23-28	3.3	6
102	Wind load prediction on single tree with integrated approach of L-system fractal model, wind tunnel, and tree aerodynamic simulation. <i>AIP Advances</i> , 2020 , 10, 075202	1.5	6
101	On peculiar behaviours at critical volumes of a three-dimensional bubble rising in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021 , 293, 104568	2.7	6

100	Signal Interpolation Augmented Linear Nonintrusive Reduced-Order Model for Aeroelastic Applications. <i>AIAA Journal</i> , 2020 , 58, 426-444	2.1	6
99	Numerical investigation of the liquid-fueled pulse detonation engine for different operating conditions. <i>Shock Waves</i> , 2019 , 29, 1205-1225	1.6	5
98	On the deflagration-to-detonation transition (DDT) process with added energetic solid particles for pulse detonation engines (PDE). <i>Shock Waves</i> , 2018 , 28, 1143-1167	1.6	5
97	The thermal characteristics of a hot wire in a near-wall flow. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 905-918	4.9	5
96	Simulation of front evolving liquid film flowing down an inclined plate using level set method. <i>Computational Mechanics</i> , 2004 , 34, 271	4	5
95	A lattice Boltzmann modeling of the bubble velocity discontinuity (BVD) in shear-thinning viscoelastic fluids. <i>Physics of Fluids</i> , 2021 , 33, 033108	4.4	5
94	Towards a larger scale energy harvesting from falling water droplets with an improved electrode configuration. <i>Applied Energy</i> , 2021 , 285, 116428	10.7	5
93	Equivalent inclusion method for arbitrary cavities or cracks in an elastic infinite/semi-infinite space. <i>International Journal of Mechanical Sciences</i> , 2021 , 195, 106259	5.5	5
92	Groove-induced changes of discharge in channel flows. <i>Journal of Fluid Mechanics</i> , 2016 , 799, 297-333	3.7	5
91	Hydrodynamic interaction and coalescence of two inline bubbles rising in a viscoelastic liquid. <i>Physics of Fluids</i> , 2021 , 33, 083102	4.4	5
90	Effect of ethylene fuel/air equivalence ratio on the dynamics of deflagration-to-detonation transition and detonation propagation process. <i>Combustion Science and Technology</i> , 2018 , 190, 1630-1658	1.5	4
89	Time-domain simulation of second-order irregular wave diffraction based on a hybrid water wave radiation condition. <i>Applied Mathematical Modelling</i> , 2016 , 40, 4451-4467	4.5	4
88	Hydrodynamics of fluid around a collapsing bubble in the spark bubble droplet generation process. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2014 , 67, 389-417	1	4
87	The simulation of unsteady cavitating flows with external perturbations. <i>Computers and Fluids</i> , 2013 , 77, 112-124	2.8	4
86	Numerical simulation and analysis of flow characteristics in the front chamber of a centrifugal pump. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 5131-5140	1.6	4
85	THE DYNAMICS OF AN OSCILLATING BUBBLE NEAR BIO-MATERIALS. <i>Modern Physics Letters B</i> , 2010 , 24, 1365-1368	1.6	4
84	A fast immersed interface method for solving Stokes flows on irregular domains. <i>Computers and Fluids</i> , 2009 , 38, 1973-1983	2.8	4
83	ENERGY SPECTRUM OF DISTURBANCE AT TURBULENT TRANSITION VIA ENERGY GRADIENT METHOD. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 293-303	0.7	4

82	Rapid detonation initiation by sparks in a short duct: a numerical study. <i>Shock Waves</i> , 2010 , 20, 241-249	1.6	4
81	Wind Loading on Scaled Down Fractal Tree Models of Major Urban Tree Species in Singapore. <i>Forests</i> , 2020 , 11, 803	2.8	4
80	Wave Mode Dynamics in an Ethylene-Air Rotating Detonation Combustor. <i>AIAA Journal</i> , 2021 , 59, 1808-1823	1.6	4
79	Phase-space dynamics of near-wall streaks in wall-bounded turbulence with spanwise oscillation. <i>Physics of Fluids</i> , 2019 , 31, 125113	4.4	4
78	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. <i>Chemical Engineering Journal</i> , 2021 , 405, 126652	14.7	4
77	Polymeric suspensions in shear flow: Relaxation and normal stress differences. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2017 , 239, 28-34	2.7	3
76	Thermal perturbations generated by near-surface electric discharges and mechanisms of their interaction with the airflow 2017 ,		3
75	Separation Control over a NACA0015 Airfoil Using Nanosecond Pulsed Plasma Actuator 2017 ,		3
74	Unsteady Flow Structures Induced by Single Microsecond-Pulsed Plasma Actuator. <i>AIAA Journal</i> , 2020 , 58, 2820-2830	2.1	3
73	The pressure wave induced by an asymmetrical Dielectric Barrier Discharge plasma actuator under the influence of residual charge. <i>Aerospace Science and Technology</i> , 2020 , 99, 105751	4.9	3
72	Use of DES in mildly separated internal flow: dimples in a turbulent channel. <i>Journal of Turbulence</i> , 2017 , 18, 1180-1203	2.1	3
71	Settling of particle-suspension drops at low to moderate Reynolds numbers. <i>European Journal of Mechanics, B/Fluids</i> , 2017 , 61, 72-76	2.4	3
70	Spark bubble interaction with a suspended particle. <i>Journal of Physics: Conference Series</i> , 2015 , 656, 012033	0.3	3
69	Motion-based grasp selection: Improving traditional control strategies of myoelectric hand prosthesis 2015 ,		3
68	A fully coupled ship motion and sloshing analysis in various container geometries. <i>Journal of Marine Science and Technology</i> , 2012 , 17, 139-153	1.7	3
67	The Effect of Rotating Speeds on the Cavitation Characteristics in Hydraulic Torque Converter. <i>Machines</i> , 2022 , 10, 80	2.9	3
66	On a vertical chain of small bubbles ascending in a viscoelastic fluid. <i>Physics of Fluids</i> , 2021 , 33, 101704	4.4	3
65	Experimental investigation on coexisting wave components in an optically accessible rotating detonation combustor. <i>Aerospace Science and Technology</i> , 2021 , 111, 106538	4.9	3

64	Numerical Study of Nanosecond Pulsed Plasma Actuator in Laminar Flat Plate Boundary Layer. <i>Communications in Computational Physics</i> , 2016 , 20, 1424-1442	2.4	3
63	Experimental study of wind load on tree using scaled fractal tree model. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2040087	1.1	3
62	Flow field generated by a dielectric barrier discharge plasma actuator in quiescent air at initiation stage. <i>Chinese Journal of Aeronautics</i> , 2021 , 34, 13-24	3.7	3
61	Study of three-dimensional air gun bubble pulsation and the surrounding fluid pressure with finite volume method. <i>Ocean Engineering</i> , 2021 , 221, 108500	3.9	3
60	Damage characteristics of elastic material through a thin membrane using high-intensity focused ultrasound (HIFU). <i>AIP Advances</i> , 2018 , 8, 115123	1.5	3
59	Letter: A note on flow characterization of the FX63-137 airfoil at low Reynolds number using oil-film interferometry technique. <i>Physics of Fluids</i> , 2018 , 30, 101701	4.4	3
58	Fluid-Solid Interaction Simulation Methodology for Coriolis Flowmeter Operation Analysis. <i>Sensors</i> , 2021 , 21,	3.8	3
57	Numerical study on ring bubble dynamics in a narrow cylinder with a compliant coating. <i>Fluid Dynamics Research</i> , 2015 , 47, 025508	1.2	2
56	Computational aeroelasticity of flexible membrane wings at moderate Reynolds numbers 2020 ,		2
55	Freely vibrating circular cylinder in the vicinity of fully developed scour holes at low Reynolds numbers. <i>Computers and Fluids</i> , 2018 , 163, 97-120	2.8	2
54	Many-body dissipative particle dynamics (MDPD) simulation of a pseudoplastic yield-stress fluid with surface tension in some flow processes. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018 , 260, 163-174	2.7	2
53	Heat transfer in turbulent channel flow over protrusions 2012 ,		2
52	Low-Reynolds-number airfoil design optimization using deep-learning-based tailored airfoil modes. <i>Aerospace Science and Technology</i> , 2022 , 121, 107309	4.9	2
51	A microstructure model for viscoelastic nematic fluids. <i>Physics of Fluids</i> , 2020 , 32, 123106	4.4	2
50	Study on the cavitation effects induced by the interaction between underwater blast and various boundaries. <i>Ocean Engineering</i> , 2021 , 222, 108596	3.9	2
49	Carbonized Silk Fiber Mat: a Flexible and Broadband Microwave Absorber, and the Length Effect. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12747-12754	8.3	2
48	Study of Two-element Airfoils for Long Endurance Flight at Low Reynolds Numbers 2020 ,		1
47	Nonlinear Airfoil Limit Cycle Analysis Using Continuation Method and Filtered Impulse Function. <i>AIAA Journal</i> , 2020 , 58, 1976-1991	2.1	1

46	Unsteady Flow Structures Induced by a Single Microsecond Pulsed DBD Plasma Actuator in Quiescent Air 2020 ,		1
45	The Modified Ghost Method for Compressible Multi-Medium Interaction with Elastic-Plastic Solid. <i>Communications in Computational Physics</i> , 2017 , 22, 1258-1285	2.4	1
44	Model reduction for parametric and nonlinear PDEs by matrix interpolation 2015 ,		1
43	Numerical Study on the Dynamics and Oxygen Uptake of Healthy and Malaria-Infected Red Blood Cells. <i>Advances in Applied Mathematics and Mechanics</i> , 2015 , 7, 549-568	2.1	1
42	A note on the dynamics of two aligned bubbles perpendicular to and above a thin membrane. <i>Fluid Dynamics Research</i> , 2015 , 47, 035503	1.2	1
41	Transient bubble oscillations near an elastic membrane in water. <i>Journal of Physics: Conference Series</i> , 2015 , 656, 012040	0.3	1
40	Measuring the in Situ Hydrate Saturation from X-Ray Transmissivity Changes during Local Dissociation. <i>Energy & Fuels</i> , 2013 , 27, 3743-3750	4.1	1
39	COMPUTATIONAL STUDY OF DEFLAGRATION TO DETONATION TRANSITION IN A STRAIGHT DUCT: EFFECT OF ENERGY RELEASE. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 62-72	0.7	1
38	The thermal characteristics of a hot wire in a fluctuating freestream flow. <i>International Journal of Heat and Fluid Flow</i> , 2007 , 28, 882-893	2.4	1
37	A model for the frequency response of a near-wall hot wire: velocity perturbation and sine-wave voltage perturbation tests. <i>Experimental Thermal and Fluid Science</i> , 2003 , 27, 167-175	3	1
36	GHOST FLUID METHOD APPLIED TO COMPRESSIBLE MULTI-PHASE FLOWS. <i>Modern Physics Letters B</i> , 2005 , 19, 1475-1478	1.6	1
35	A targeted essentially non-oscillatory (TEN0) SPH method and its applications in hydrodynamics. <i>Ocean Engineering</i> , 2022 , 243, 110100	3.9	1
34	Rigid fiber motion in slightly non-Newtonian viscoelastic fluids. <i>Physics of Fluids</i> , 2021 , 33, 103320	4.4	1
33	Investigation of an Improved Side-Vented Needle and Corresponding Irrigation Strategy for Root Canal Therapy with CFD Method. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 195, 105547	6.9	1
32	Aeroelastic mode decomposition framework and mode selection mechanism in fluid-membrane interaction. <i>Journal of Fluids and Structures</i> , 2022 , 108, 103428	3.1	1
31	A new real-gas model to characterize and predict gas leakage for high-pressure gas pipeline. <i>Journal of Loss Prevention in the Process Industries</i> , 2022 , 74, 104650	3.5	1
30	Simulation of Supercavitating Flow Accelerated by Shock. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2013 , 291-298	0.6	1
29	Numerical study of Taylor-Couette flow with longitudinal corrugated surface. <i>Physics of Fluids</i> , 2020 , 32, 053606	4.4	1

28	Numerical Simulation of Deflagration to Detonation Transition in a Straight Duct: Effects of Energy Release and Detonation Stability. <i>Advances in Applied Mathematics and Mechanics</i> , 2014 , 6, 718-731	2.1	1
27	Strongly overdamped Dissipative Particle Dynamics for fluid-solid systems. <i>Applied Mathematical Modelling</i> , 2016 , 40, 6359-6375	4.5	1
26	A Computational Framework for Assessment of Fuel Sloshing Effects on Transonic Wing Flutter Characteristics 2019 ,		1
25	Subject-Independent Data Pooling in Classification of Gait Intent Using Mechanomyography on a Transtibial Amputee 2018 ,		1
24	Numerical investigation on free surface effect on the supercavitating flow over a low aspect ratio wedge-shaped hydrofoil. <i>Journal of Hydrodynamics</i> , 2020 , 32, 20-30	3.3	0
23	Geometric Effects of Shallow Dimples in Turbulent Channel Flows at ($Re_{\tau} \approx 180$): A Vorticity Transport Perspective. <i>Flow, Turbulence and Combustion</i> , 2020 , 105, 83-122	2.5	0
22	Report on the 32nd International Symposium on Shock Waves. <i>Shock Waves</i> , 2020 , 30, 559-561	1.6	0
21	On the boundary flow using pulsed nanosecond DBD plasma actuators. <i>Modern Physics Letters B</i> , 2018 , 32, 1840035	1.6	0
20	BEM SIMULATIONS OF POTENTIAL FLOW WITH VISCOUS EFFECTS AS APPLIED TO AN ACOUSTIC BUBBLE. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 1-5	0.7	0
19	Incipient separation in shock wave/boundary layer interactions as induced by sharp fin. <i>Shock Waves</i> , 2006 , 15, 425-436	1.6	0
18	Fusing sensor data with CFD results using gappy POD. <i>Ocean Engineering</i> , 2022 , 246, 110549	3.9	0
17	Nonlinear aeroelastic analysis of a multi-element airfoil with free play using continuation method. <i>Journal of Fluids and Structures</i> , 2022 , 109, 103482	3.1	0
16	Numerical Simulations of Serrated Propellers to Reduce Noise. <i>Lecture Notes in Computer Science</i> , 2020 , 87-103	0.9	0
15	Numerical investigation of irrigant flow characteristics in curved root canals with computational fluid dynamics method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 989-1001	4.5	0
14	Force measurements on an inclined plate moving a sediment/sand bed. <i>Ocean Engineering</i> , 2021 , 219, 108365	3.9	0
13	Free surface and near-wall effects on the cloud cavitating flow over an axisymmetric projectile. <i>Ocean Engineering</i> , 2021 , 238, 109682	3.9	0
12	Elastic field prediction for a welding repaired material using a semi-analytical method. <i>Applied Mathematical Modelling</i> , 2021 , 99, 566-584	4.5	0
11	Detection and evaluation of cavitation in the stator of a torque converter using pressure measurement. <i>Physics of Fluids</i> , 2022 , 34, 045124	4.4	0

10	Thermal effect on cavitation characteristics of a hydraulic torque converter. <i>Numerical Heat Transfer; Part A: Applications</i> , 1-22	2.3	0
9	HEAT TRANSFER ON PERIODICALLY DIMPLE-PROTRUSION PATTERNED WALLS IN TURBULENT CHANNEL FLOW. <i>International Journal of Modern Physics Conference Series</i> , 2014 , 34, 1460372	0.7	
8	INTERACTION OF TWO DIFFERENTLY SIZED BUBBLES IN A FREE FIELD. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 180-184	0.7	
7	FLOW SUPERCAVITATION 2015 , 51-52		
6	Blake, bubbles and boundary element methods. <i>IMA Journal of Applied Mathematics</i> , 2020 , 85, 190-213	1	
5	High Intensity Focused Ultrasound (HIFU) for Biomedical and Dentistry Applications. <i>IFMBE Proceedings</i> , 2016 , 744-747	0.2	
4	A study on the design parameters for water-solid triboelectric energy harvesting with a channel device. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101483	4.7	
3	Measurement uncertainty analysis of leak localisation in a gas pipeline. <i>Measurement: Sensors</i> , 2021 , 18, 100069	0.5	
2	Two-Phase Smoothed Particle Hydrodynamics Modelling of Hydrodynamic-Aerodynamic and Wave-Structure Interaction. <i>Energies</i> , 2022 , 15, 3251	3.1	
1	A hybrid smoothed particle hydrodynamics coupled to a fictitious domain method for particulate flows and its application in a three-dimensional printing process. <i>Journal of Computational Physics</i> , 2022 , 463, 111312	4.1	