

# Boo Cheong Khoo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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
315	The Effect of Rotating Speeds on the Cavitation Characteristics in Hydraulic Torque Converter. <i>Machines</i> , <b>2022</b> , 10, 80	2.9	3
314	A targeted essentially non-oscillatory (TEN0) SPH method and its applications in hydrodynamics. <i>Ocean Engineering</i> , <b>2022</b> , 243, 110100	3.9	1
313	Fusing sensor data with CFD results using gappy POD. <i>Ocean Engineering</i> , <b>2022</b> , 246, 110549	3.9	0
312	Aeroelastic mode decomposition framework and mode selection mechanism in fluid-membrane interaction. <i>Journal of Fluids and Structures</i> , <b>2022</b> , 108, 103428	3.1	1
311	Low-Reynolds-number airfoil design optimization using deep-learning-based tailored airfoil modes. <i>Aerospace Science and Technology</i> , <b>2022</b> , 121, 107309	4.9	2
310	Nonlinear aeroelastic analysis of a multi-element airfoil with free play using continuation method. <i>Journal of Fluids and Structures</i> , <b>2022</b> , 109, 103482	3.1	0
309	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> , <b>2022</b> , 74, 104650	3.5	1
308	Detection and evaluation of cavitation in the stator of a torque converter using pressure measurement. <i>Physics of Fluids</i> , <b>2022</b> , 34, 045124	4.4	0
307	Two-Phase Smoothed Particle Hydrodynamics Modelling of Hydrodynamic-Aerodynamic and Wave-Structure Interaction. <i>Energies</i> , <b>2022</b> , 15, 3251	3.1	
306	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> , <b>2022</b> , 463, 111312	4.1	
305	Rigid fiber motion in slightly non-Newtonian viscoelastic fluids. <i>Physics of Fluids</i> , <b>2021</b> , 33, 103320	4.4	1
304	On a vertical chain of small bubbles ascending in a viscoelastic fluid. <i>Physics of Fluids</i> , <b>2021</b> , 33, 101704	4.4	3
303	A lattice Boltzmann modeling of the bubble velocity discontinuity (BVD) in shear-thinning viscoelastic fluids. <i>Physics of Fluids</i> , <b>2021</b> , 33, 033108	4.4	5
302	Towards a larger scale energy harvesting from falling water droplets with an improved electrode configuration. <i>Applied Energy</i> , <b>2021</b> , 285, 116428	10.7	5
301	Experimental investigation on coexisting wave components in an optically accessible rotating detonation combustor. <i>Aerospace Science and Technology</i> , <b>2021</b> , 111, 106538	4.9	3
300	Equivalent inclusion method for arbitrary cavities or cracks in an elastic infinite/semi-infinite space. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 195, 106259	5.5	5
299	A high-fidelity numerical study on the propulsive performance of pitching flexible plates. <i>Physics of Fluids</i> , <b>2021</b> , 33, 051901	4.4	10

298	Wave Mode Dynamics in an Ethylene-Air Rotating Detonation Combustor. <i>AIAA Journal</i> , <b>2021</b> , 59, 1808-1823	4
297	Stratification effect of air bubble on the shock wave from the collapse of cavitation bubble. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 919,	3.7 11
296	On peculiar behaviours at critical volumes of a three-dimensional bubble rising in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2021</b> , 293, 104568	2.7 6
295	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> , <b>2021</b> , 405, 126652	14.7 4
294	Force measurements on an inclined plate moving a sediment/sand bed. <i>Ocean Engineering</i> , <b>2021</b> , 219, 108365	3.9 0
293	Flow field generated by a dielectric barrier discharge plasma actuator in quiescent air at initiation stage. <i>Chinese Journal of Aeronautics</i> , <b>2021</b> , 34, 13-24	3.7 3
292	Study on the cavitation effects induced by the interaction between underwater blast and various boundaries. <i>Ocean Engineering</i> , <b>2021</b> , 222, 108596	3.9 2
291	Study of three-dimensional air gun bubble pulsation and the surrounding fluid pressure with finite volume method. <i>Ocean Engineering</i> , <b>2021</b> , 221, 108500	3.9 3
290	Hydrodynamic interaction and coalescence of two inline bubbles rising in a viscoelastic liquid. <i>Physics of Fluids</i> , <b>2021</b> , 33, 083102	4.4 5
289	Carbonized Silk Fiber Mat: a Flexible and Broadband Microwave Absorber, and the Length Effect. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12747-12754	8.3 2
288	A study on the design parameters for water-solid triboelectric energy harvesting with a channel device. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 47, 101483	4.7
287	Free surface and near-wall effects on the cloud cavitating flow over an axisymmetric projectile. <i>Ocean Engineering</i> , <b>2021</b> , 238, 109682	3.9 0
286	Elastic field prediction for a welding repaired material using a semi-analytical method. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 99, 566-584	4.5 0
285	Measurement uncertainty analysis of leak localisation in a gas pipeline. <i>Measurement: Sensors</i> , <b>2021</b> , 18, 100069	0.5
284	Fluid-Solid Interaction Simulation Methodology for Coriolis Flowmeter Operation Analysis. <i>Sensors</i> , <b>2021</b> , 21,	3.8 3
283	A Multimodal Intention Detection Sensor Suite for Shared Autonomy of Upper-Limb Robotic Prostheses. <i>Sensors</i> , <b>2020</b> , 20,	3.8 7
282	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> , <b>2020</b> , 32, 053106	4.4 8
281	Computational aeroelasticity of flexible membrane wings at moderate Reynolds numbers <b>2020</b> ,	2

280	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> , <b>2020</b> , 65, 104129	3.5	8
279	Numerical investigation on free surface effect on the supercavitating flow over a low aspect ratio wedge-shaped hydrofoil. <i>Journal of Hydrodynamics</i> , <b>2020</b> , 32, 20-30	3.3	0
278	Thermoresponsive Hydrogel Induced by Dual Supramolecular Assemblies and Its Controlled Release Property for Enhanced Anticancer Drug Delivery. <i>Biomacromolecules</i> , <b>2020</b> , 21, 1516-1527	6.9	36
277	Unsteady Flow Structures Induced by Single Microsecond-Pulsed Plasma Actuator. <i>AIAA Journal</i> , <b>2020</b> , 58, 2820-2830	2.1	3
276	Geometric Effects of Shallow Dimples in Turbulent Channel Flows at ( $Re_{\tau}$ approx 180): A Vorticity Transport Perspective. <i>Flow, Turbulence and Combustion</i> , <b>2020</b> , 105, 83-122	2.5	0
275	Report on the 32nd International Symposium on Shock Waves. <i>Shock Waves</i> , <b>2020</b> , 30, 559-561	1.6	0
274	The pressure wave induced by an asymmetrical Dielectric Barrier Discharge plasma actuator under the influence of residual charge. <i>Aerospace Science and Technology</i> , <b>2020</b> , 99, 105751	4.9	3
273	Study of Two-element Airfoils for Long Endurance Flight at Low Reynolds Numbers <b>2020</b> ,		1
272	Nonlinear Airfoil Limit Cycle Analysis Using Continuation Method and Filtered Impulse Function. <i>AIAA Journal</i> , <b>2020</b> , 58, 1976-1991	2.1	1
271	Unsteady Flow Structures Induced by a Single Microsecond Pulsed DBD Plasma Actuator in Quiescent Air <b>2020</b> ,		1
270	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> , <b>2020</b> , 195, 105547	6.9	1
269	Numerical Simulations of Serrated Propellers to Reduce Noise. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 87-103	0.9	0
268	Numerical study of Taylor-Couette flow with longitudinal corrugated surface. <i>Physics of Fluids</i> , <b>2020</b> , 32, 053606	4.4	1
267	A microstructure model for viscoelastic nematic fluids. <i>Physics of Fluids</i> , <b>2020</b> , 32, 123106	4.4	2
266	Blake, bubbles and boundary element methods. <i>IMA Journal of Applied Mathematics</i> , <b>2020</b> , 85, 190-213		1
265	Ultrasound generated by alternating current dielectric barrier discharge plasma in quiescent air. <i>Plasma Sources Science and Technology</i> , <b>2020</b> , 29, 015017	3.5	8
264	Dynamics and deformation of a three-dimensional bubble rising in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2020</b> , 285, 104408	2.7	10
263	A lattice Boltzmann modeling of viscoelastic drops deformation and breakup in simple shear flows. <i>Physics of Fluids</i> , <b>2020</b> , 32, 123101	4.4	9

262	Efficient flapping wing drone arrests high-speed flight using post-stall soaring. <i>Science Robotics</i> , <b>2020</b> , 5,	18.6	12
261	Wind load prediction on single tree with integrated approach of L-system fractal model, wind tunnel, and tree aerodynamic simulation. <i>AIP Advances</i> , <b>2020</b> , 10, 075202	1.5	6
260	Wind Loading on Scaled Down Fractal Tree Models of Major Urban Tree Species in Singapore. <i>Forests</i> , <b>2020</b> , 11, 803	2.8	4
259	Numerical investigation of irrigant flow characteristics in curved root canals with computational fluid dynamics method. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2020</b> , 14, 989-1001	4.5	0
258	Deep Learning Based Reduced Order Model for Airfoil-Gust and Aeroelastic Interaction. <i>AIAA Journal</i> , <b>2020</b> , 58, 4304-4321	2.1	10
257	Dynamics of the supercavitating hydrofoil with cavitator in steady flow field. <i>Physics of Fluids</i> , <b>2020</b> , 32, 123307	4.4	8
256	Hydrodynamic loads and wake dynamics of ducted propeller in oblique flow conditions. <i>Ships and Offshore Structures</i> , <b>2020</b> , 15, 645-660	1.4	7
255	Signal Interpolation Augmented Linear Nonintrusive Reduced-Order Model for Aeroelastic Applications. <i>AIAA Journal</i> , <b>2020</b> , 58, 426-444	2.1	6
254	Membrane-type acoustic metamaterial with eccentric masses for broadband sound isolation. <i>Applied Acoustics</i> , <b>2020</b> , 157, 107003	3.1	30
253	Effects of Variable Total Pressures on Instability and Extinction of Rotating Detonation Combustion. <i>Flow, Turbulence and Combustion</i> , <b>2020</b> , 104, 261-290	2.5	32
252	Experimental study of wind load on tree using scaled fractal tree model. <i>International Journal of Modern Physics B</i> , <b>2020</b> , 34, 2040087	1.1	3
251	On evolution of flow structures induced by nanosecond pulse discharge inside a plasma synthetic jet actuator. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 028002	1.4	6
250	Enhancement of heat and mass transfer in a microchannel via passive oscillation of a flexible vortex generator. <i>Chemical Engineering Science</i> , <b>2019</b> , 207, 556-580	4.4	18
249	Fast flow field prediction over airfoils using deep learning approach. <i>Physics of Fluids</i> , <b>2019</b> , 31, 057103	4.4	85
248	Supercavitation phenomenon research of projectiles passing through density change area. <i>AIP Advances</i> , <b>2019</b> , 9, 045303	1.5	7
247	Numerical investigation of the liquid-fueled pulse detonation engine for different operating conditions. <i>Shock Waves</i> , <b>2019</b> , 29, 1205-1225	1.6	5
246	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> , <b>2019</b> , 31, 043301	4.4	8
245	A comparative study of alternating current and nanosecond plasma actuators in flow separation control. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 135, 1097-1117	4.9	14

244	Study on flow separation and transition of the airfoil in low Reynolds number. <i>Physics of Fluids</i> , <b>2019</b> , 31, 103601	4.4	17
243	A smoothed particle hydrodynamics (SPH) formulation of a two-phase mixture model and its application to turbulent sediment transport. <i>Physics of Fluids</i> , <b>2019</b> , 31, 103303	4.4	18
242	Numerical study on wide gap Taylor Couette flow with flow transition. <i>Physics of Fluids</i> , <b>2019</b> , 31, 113606	4.4	7
241	Phase-space dynamics of near-wall streaks in wall-bounded turbulence with spanwise oscillation. <i>Physics of Fluids</i> , <b>2019</b> , 31, 125113	4.4	4
240	A smoothed particle hydrodynamics simulation of fiber-filled composites in a non-isothermal three-dimensional printing process. <i>Physics of Fluids</i> , <b>2019</b> , 31, 123102	4.4	11
239	Inverse Design of Airfoil Using a Deep Convolutional Neural Network. <i>AIAA Journal</i> , <b>2019</b> , 57, 993-1003	2.1	55
238	A Computational Framework for Assessment of Fuel Sloshing Effects on Transonic Wing Flutter Characteristics <b>2019</b> ,		1
237	A smoothed particle hydrodynamics (SPH) study on polydisperse sediment from technical activities on seabed. <i>Physics of Fluids</i> , <b>2018</b> , 30, 023302	4.4	10
236	Ice breaking by a collapsing bubble. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 841, 287-309	3.7	96
235	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> , <b>2018</b> , 190, 1630-1658	1.5	4
234	On the deflagration-to-detonation transition (DDT) process with added energetic solid particles for pulse detonation engines (PDE). <i>Shock Waves</i> , <b>2018</b> , 28, 1143-1167	1.6	5
233	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> , <b>2018</b> , 52, 619-628	4.6	44
232	Investigation of Injection Strategy for Liquid-Fuel Rotating Detonation Engine <b>2018</b> ,		7
231	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> , <b>2018</b> , 99, 62-72	3.6	12
230	Freely vibrating circular cylinder in the vicinity of fully developed scour holes at low Reynolds numbers. <i>Computers and Fluids</i> , <b>2018</b> , 163, 97-120	2.8	2
229	Hydraulic fracturing in a penny-shaped crack. Part I: Methodology and testing of frozen sand. <i>Journal of Natural Gas Science and Engineering</i> , <b>2018</b> , 52, 609-618	4.6	20
228	Stability of boundary layer flow based on energy gradient theory. <i>Modern Physics Letters B</i> , <b>2018</b> , 32, 1840003	1.6	8
227	A note on supersonic flow control with nanosecond plasma actuator. <i>Physics of Fluids</i> , <b>2018</b> , 30, 040907	4.4	24

226	Flow Separation Control over a NACA 0015 Airfoil Using Nanosecond-Pulsed Plasma Actuator. <i>AIAA Journal</i> , <b>2018</b> , 56, 2220-2234	2.1	15
225	Experimental study on incident wave speed and the mechanisms of deflagration-to-detonation transition in a bent geometry. <i>Shock Waves</i> , <b>2018</b> , 28, 205-216	1.6	7
224	On the boundary flow using pulsed nanosecond DBD plasma actuators. <i>Modern Physics Letters B</i> , <b>2018</b> , 32, 1840035	1.6	0
223	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> , <b>2018</b> , 260, 163-174	2.7	2
222	Numerical evaluation of station-keeping strategies for stratospheric balloons. <i>Aerospace Science and Technology</i> , <b>2018</b> , 80, 288-300	4.9	14
221	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> , <b>2018</b> , 76, 251-271	3.1	13
220	Interaction of a spark-generated bubble with a two-layered composite beam. <i>Journal of Fluids and Structures</i> , <b>2018</b> , 76, 336-348	3.1	16
219	Damage characteristics of elastic material through a thin membrane using high-intensity focused ultrasound (HIFU). <i>AIP Advances</i> , <b>2018</b> , 8, 115123	1.5	3
218	Bubble-sphere interaction beneath a free surface. <i>Ocean Engineering</i> , <b>2018</b> , 169, 469-483	3.9	36
217	Flow patterns and red blood cell dynamics in a U-bend. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 124701	2.5	8
216	Subject-Independent Data Pooling in Classification of Gait Intent Using Mechanomyography on a Transtibial Amputee <b>2018</b> ,		1
215	Thermal or electrical bulk properties of rod-filled composites. <i>International Journal of Engineering Science</i> , <b>2018</b> , 133, 219-230	5.7	8
214	Smoothed particle hydrodynamics (SPH) modeling of fiber orientation in a 3D printing process. <i>Physics of Fluids</i> , <b>2018</b> , 30, 103103	4.4	35
213	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> , <b>2018</b> , 30, 101701	4.4	3
212	Heat transfer enhancement and drag reduction in transverse groove-bounded microchannels with offset. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 130, 240-255	4.1	12
211	Polymeric suspensions in shear flow: Relaxation and normal stress differences. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 239, 28-34	2.7	3
210	Thermal perturbations generated by near-surface electric discharges and mechanisms of their interaction with the airflow <b>2017</b> ,		3
209	A dissipative particle dynamics model for thixotropic materials exhibiting pseudo-yield stress behaviour. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 241, 1-13	2.7	12

208	Separation Control over a NACA0015 Airfoil Using Nanosecond Pulsed Plasma Actuator <b>2017</b> ,		3
207	Reduced-Order Modeling of Stratospheric Winds and Its Application in High-Altitude Balloon Trajectory Simulations. <i>Journal of Applied Meteorology and Climatology</i> , <b>2017</b> , 56, 1753-1766	2.7	7
206	The simulation of compressible multi-fluid multi-solid interactions using the modified ghost method. <i>Computers and Fluids</i> , <b>2017</b> , 154, 12-26	2.8	8
205	Radioprotective effect of ursolic acid in radiation-induced impairment of neurogenesis, learning and memory in adolescent BALB/c mouse. <i>Physiology and Behavior</i> , <b>2017</b> , 175, 37-46	3.5	19
204	A study of detonation re-initiation through multiple reflections in a 90-degree bifurcation channel. <i>Combustion and Flame</i> , <b>2017</b> , 180, 207-216	5.3	14
203	Spark-generated bubble near an elastic sphere. <i>International Journal of Multiphase Flow</i> , <b>2017</b> , 90, 156-166	3.0	30
202	Steady-shear rheological properties for suspensions of axisymmetric particles in second-order fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 239, 62-72	2.7	12
201	Harnessing Dielectric Breakdown of Dielectric Elastomer to Achieve Large Actuation. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2017</b> , 84,	2.7	12
200	A smoothed particle hydrodynamics (SPH) study of sediment dispersion on the seafloor. <i>Physics of Fluids</i> , <b>2017</b> , 29, 083302	4.4	22
199	Use of DES in mildly separated internal flow: dimples in a turbulent channel. <i>Journal of Turbulence</i> , <b>2017</b> , 18, 1180-1203	2.1	3
198	Coupled dynamics of vortex-induced vibration and stationary wall at low Reynolds number. <i>Physics of Fluids</i> , <b>2017</b> , 29, 093601	4.4	21
197	Nonlinear aeroelastic analysis of curved laminated composite panels. <i>Composite Structures</i> , <b>2017</b> , 179, 377-414	5.3	9
196	A rheological constitutive model for semiconcentrated rod suspensions in Bingham fluids. <i>Physics of Fluids</i> , <b>2017</b> , 29, 073103	4.4	15
195	Numerical simulation and analysis of flow characteristics in the front chamber of a centrifugal pump. <i>Journal of Mechanical Science and Technology</i> , <b>2017</b> , 31, 5131-5140	1.6	4
194	Low-dose or low-dose-rate ionizing radiation-induced bioeffects in animal models. <i>Journal of Radiation Research</i> , <b>2017</b> , 58, 165-182	2.4	70
193	Settling of particle-suspension drops at low to moderate Reynolds numbers. <i>European Journal of Mechanics, B/Fluids</i> , <b>2017</b> , 61, 72-76	2.4	3
192	Excessively Fuel-Rich Conditions for Cold Starting of Liquid-Fuel Pulse Detonation Engines. <i>Journal of Propulsion and Power</i> , <b>2017</b> , 33, 71-79	1.8	10
191	Postnatal irradiation-induced hippocampal neuropathology, cognitive impairment and aging. <i>Brain and Development</i> , <b>2017</b> , 39, 277-293	2.2	15

190	The Modified Ghost Method for Compressible Multi-Medium Interaction with Elastic-Plastic Solid. <i>Communications in Computational Physics</i> , <b>2017</b> , 22, 1258-1285	2.4	1
189	Destabilization of clouds of monodisperse and polydisperse particles falling in a quiescent and viscous fluid. <i>Physics of Fluids</i> , <b>2016</b> , 28, 063305	4.4	10
188	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> , <b>2016</b> , 81, 611-639	1.9	12
187	Effect of temperature on rheological behavior of kaolinite and bentonite suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 506, 1-5	5.1	19
186	Time-domain simulation of second-order irregular wave diffraction based on a hybrid water wave radiation condition. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 4451-4467	4.5	4
185	Size Effect of Porous Media on Methane Hydrate Formation and Dissociation in an Excess Gas Environment. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7981-7991	3.9	73
184	Effect of particle size on erosion characteristics. <i>Wear</i> , <b>2016</b> , 348-349, 126-137	3.5	75
183	Investigation of airfoil leading edge separation control with nanosecond plasma actuator. <i>Physical Review Fluids</i> , <b>2016</b> , 1,	2.8	27
182	Simulation of anisotropic diffusion processes in fluids with smoothed particle hydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , <b>2016</b> , 82, 730-747	1.9	11
181	Numerical Study of Nanosecond Pulsed Plasma Actuator in Laminar Flat Plate Boundary Layer. <i>Communications in Computational Physics</i> , <b>2016</b> , 20, 1424-1442	2.4	3
180	Linear stability of pressure-driven flow over longitudinal superhydrophobic grooves. <i>Physics of Fluids</i> , <b>2016</b> , 28, 022001	4.4	9
179	The effect of shear-thinning behaviour on rod orientation in filled fluids. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 798, 350-370	3.7	19
178	Groove-induced changes of discharge in channel flows. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 799, 297-333	3.7	5
177	High Intensity Focused Ultrasound (HIFU) for Biomedical and Dentistry Applications. <i>IFMBE Proceedings</i> , <b>2016</b> , 744-747	0.2	
176	Strongly overdamped Dissipative Particle Dynamics for fluid-solid systems. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 6359-6375	4.5	1
175	Lithotripter shock wave interaction with a bubble near various biomaterials. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 7031-7053	3.8	9
174	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> , <b>2016</b> , 65, 495-526	3.1	36
173	Shear induced organization of particles in non-colloidal suspensions in steady shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2015</b> , 223, 228-232	2.7	11

172	Boundary regularized integral equation formulation of Stokes flow. <i>Physics of Fluids</i> , <b>2015</b> , 27, 023102	4.4	7
171	Mechanics of drag reduction by shallow dimples in channel flow. <i>Physics of Fluids</i> , <b>2015</b> , 27, 035109	4.4	25
170	Numerical study on ring bubble dynamics in a narrow cylinder with a compliant coating. <i>Fluid Dynamics Research</i> , <b>2015</b> , 47, 025508	1.2	2
169	Concentration dependence of yield stress and dynamic moduli of kaolinite suspensions. <i>Langmuir</i> , <b>2015</b> , 31, 4791-7	4	17
168	The ghost solid methods for the elastic-plastic solid-solid interface and the $\epsilon$ -criterion. <i>Journal of Computational Physics</i> , <b>2015</b> , 302, 618-652	4.1	7
167	Bubbles with shock waves and ultrasound: a review. <i>Interface Focus</i> , <b>2015</b> , 5, 20150019	3.9	62
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15	Boundary integral equations as applied to an oscillating bubble near a fluid-fluid interface. <i>Computational Mechanics</i> , <b>2004</b> , 33, 129-138	4	46
14	Simulation of front evolving liquid film flowing down an inclined plate using level set method. <i>Computational Mechanics</i> , <b>2004</b> , 34, 271	4	5
13	Dissipative particle dynamics simulation of polymer drops in a periodic shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2004</b> , 118, 65-81	2.7	85
12	Kinetic energy fix for low internal energy flows. <i>Journal of Computational Physics</i> , <b>2004</b> , 193, 243-259	4.1	9
11	Isentropic one-fluid modelling of unsteady cavitating flow. <i>Journal of Computational Physics</i> , <b>2004</b> , 201, 80-108	4.1	100

10	Underwater shock-free surface-structure interaction. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 58, 609-630	2.4	12
9	Ghost fluid method for strong shock impacting on material interface. <i>Journal of Computational Physics</i> , <b>2003</b> , 190, 651-681	4.1	210
8	Elastic mesh technique for 3D BIM simulation with an application to underwater explosion bubble dynamics. <i>Computers and Fluids</i> , <b>2003</b> , 32, 1195-1212	2.8	70
7	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> , <b>2003</b> , 27, 167-175	3	1
6	Transport across a turbulent air-water interface. <i>AIChE Journal</i> , <b>2002</b> , 48, 1856-1868	3.6	23
5	Near-wall hot-wire measurements. <i>Experiments in Fluids</i> , <b>2001</b> , 31, 494-505	2.5	16
4	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> , <b>2001</b> , 30, 291-314	2.8	51
3	Turbulent boundary layer over a compliant surface: absolute and convective instabilities. <i>Journal of Fluid Mechanics</i> , <b>2001</b> , 449, 141-168	3.7	19
2	A new constitutive model for monodispersed suspensions of spheres at high concentrations. <i>Rheologica Acta</i> , <b>1999</b> , 38, 297-304	2.3	29
1	Thermal effect on cavitation characteristics of a hydraulic torque converter. <i>Numerical Heat Transfer; Part A: Applications</i> , 1-22	2.3	0