

Hyung Jin Sung

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4631907/publications.pdf>

Version: 2024-02-01

373
papers

13,700
citations

22132

59
h-index

36008

97
g-index

382
all docs

382
docs citations

382
times ranked

10532
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoforest of Hydrothermally Grown Hierarchical ZnO Nanowires for a High Efficiency Dye-Sensitized Solar Cell. <i>Nano Letters</i> , 2011, 11, 666-671.	4.5	960
2	Highly Stretchable, Hysteresis-Free Ionic Liquid-Based Strain Sensor for Precise Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1770-1780.	4.0	331
3	Simulation of flexible filaments in a uniform flow by the immersed boundary method. <i>Journal of Computational Physics</i> , 2007, 226, 2206-2228.	1.9	328
4	Annealing-free, flexible silver nanowire-polymer composite electrodes via a continuous two-step spray-coating method. <i>Nanoscale</i> , 2013, 5, 977-983.	2.8	308
5	Recent advances in microfluidic actuation and micro-object manipulation via surface acoustic waves. <i>Lab on A Chip</i> , 2015, 15, 2722-2738.	3.1	278
6	An implicit velocity decoupling procedure for the incompressible Navier-Stokes equations. <i>International Journal for Numerical Methods in Fluids</i> , 2002, 38, 125-138.	0.9	275
7	Control of turbulent separated flow over a backward-facing step by local forcing. <i>Experiments in Fluids</i> , 1996, 21, 417-426.	1.1	224
8	Continuous separation of particles in a PDMS microfluidic channel via travelling surface acoustic waves (TSAW). <i>Lab on A Chip</i> , 2013, 13, 4210.	3.1	172
9	Dynamic mode decomposition of turbulent cavity flows for self-sustained oscillations. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 1098-1110.	1.1	164
10	Very-large-scale motions in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2011, 673, 80-120.	1.4	159
11	Three-dimensional simulation of a flapping flag in a uniform flow. <i>Journal of Fluid Mechanics</i> , 2010, 653, 301-336.	1.4	158
12	Effects of channel geometrical configuration and shoulder width on PEMFC performance at high current density. <i>Journal of Power Sources</i> , 2006, 162, 327-339.	4.0	139
13	Flexible supercapacitor fabrication by room temperature rapid laser processing of roll-to-roll printed metal nanoparticle ink for wearable electronics application. <i>Journal of Power Sources</i> , 2014, 246, 562-568.	4.0	134
14	An immersed boundary method for fluid-flexible structure interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 2650-2661.	3.4	132
15	Acoustofluidic particle manipulation inside a sessile droplet: four distinct regimes of particle concentration. <i>Lab on A Chip</i> , 2016, 16, 660-667.	3.1	131
16	Drag Reduction by Spanwise Wall Oscillation in Wall-Bounded Turbulent Flows. <i>AIAA Journal</i> , 2002, 40, 842-850.	1.5	125
17	Microchannel Anechoic Corner for Size-Selective Separation and Medium Exchange via Traveling Surface Acoustic Waves. <i>Analytical Chemistry</i> , 2015, 87, 4627-4632.	3.2	123
18	Two-fluid mixing in a microchannel. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 986-995.	1.1	122

#	ARTICLE	IF	CITATIONS
19	Assessment of regularized delta functions and feedback forcing schemes for an immersed boundary method. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 58, 263-286.	0.9	119
20	Submicron separation of microspheres via travelling surface acoustic waves. <i>Lab on A Chip</i> , 2014, 14, 4665-4672.	3.1	118
21	Numerical simulation of the flow behind a rotary oscillating circular cylinder. <i>Physics of Fluids</i> , 1998, 10, 869-876.	1.6	117
22	Direct numerical simulation of the turbulent boundary layer over a cube-roughened wall. <i>Journal of Fluid Mechanics</i> , 2011, 669, 397-431.	1.4	116
23	Direct numerical simulation of the turbulent boundary layer over a rod-roughened wall. <i>Journal of Fluid Mechanics</i> , 2007, 584, 125-146.	1.4	110
24	Multiple-arrayed pressure measurement for investigation of the unsteady flow structure of a reattaching shear layer. <i>Journal of Fluid Mechanics</i> , 2002, 463, 377-402.	1.4	106
25	Constructive and destructive interaction modes between two tandem flexible flags in viscous flow. <i>Journal of Fluid Mechanics</i> , 2010, 661, 511-521.	1.4	105
26	Effect of wall heating on turbulent boundary layers with temperature-dependent viscosity. <i>Journal of Fluid Mechanics</i> , 2013, 726, 196-225.	1.4	104
27	Karhunen's "Lo" expansion of Burgers' model of turbulence. <i>Physics of Fluids</i> , 1988, 31, 2573-2582.	1.4	101
28	Flapping dynamics of an inverted flag in a uniform flow. <i>Journal of Fluids and Structures</i> , 2015, 57, 159-169.	1.5	101
29	Direct numerical simulation of turbulent concentric annular pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 2002, 23, 426-440.	1.1	98
30	Characteristics of wall pressure fluctuations in separated and reattaching flows over a backward-facing step. <i>Experiments in Fluids</i> , 2001, 30, 262-272.	1.1	96
31	Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. <i>Advanced Functional Materials</i> , 2013, 23, 3316-3323.	7.8	95
32	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11435-11441.	1.5	91
33	Spatial organization of large- and very-large-scale motions in a turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2014, 749, 818-840.	1.4	90
34	On-demand droplet splitting using surface acoustic waves. <i>Lab on A Chip</i> , 2016, 16, 3235-3243.	3.1	90
35	Structures in turbulent boundary layers subjected to adverse pressure gradients. <i>Journal of Fluid Mechanics</i> , 2009, 639, 101-131.	1.4	89
36	Effects of an adverse pressure gradient on a turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 568-578.	1.1	88

#	ARTICLE	IF	CITATIONS
37	Adjustable, rapidly switching microfluidic gradient generation using focused travelling surface acoustic waves. <i>Applied Physics Letters</i> , 2014, 104, 023506.	1.5	88
38	Wall-attached structures of velocity fluctuations in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2018, 856, 958-983.	1.4	85
39	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021, 12, 5008.	5.8	83
40	Liquid transfer between two separating plates for micro-gravure-offset printing. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 015025.	1.5	82
41	Direct numerical simulation of a 30R long turbulent pipe flow at $Re_{\lambda} = 3008$. <i>Physics of Fluids</i> , 2015, 27, .	1.6	82
42	Analysis of the Nusselt number in pulsating pipe flow. <i>International Journal of Heat and Mass Transfer</i> , 1997, 40, 2486-2489.	2.5	81
43	Cross-Type Optical Particle Separation in a Microchannel. <i>Analytical Chemistry</i> , 2008, 80, 2628-2630.	3.2	80
44	Inner-outer interactions of large-scale structures in turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2016, 790, 128-157.	1.4	79
45	A nonlinear low-Reynolds-number $\hat{\nu}$ - $\hat{\mu}$ model for turbulent separated and reattaching flows. <i>Flow field computations. International Journal of Heat and Mass Transfer</i> , 1995, 38, 2657-2666.	2.5	76
46	Development of an array of pressure sensors with PVDF film. <i>Experiments in Fluids</i> , 1999, 26, 27-35.	1.1	76
47	Three-dimensional simulation of elastic capsules in shear flow by the penalty immersed boundary method. <i>Journal of Computational Physics</i> , 2012, 231, 3340-3364.	1.9	74
48	Acoustothermal heating of polydimethylsiloxane microfluidic system. <i>Scientific Reports</i> , 2015, 5, 11851.	1.6	73
49	Pulsating flow and heat transfer in a pipe partially filled with a porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1997, 40, 4209-4218.	2.5	72
50	Simulation of liquid transfer between separating walls for modeling micro-gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 1436-1446.	1.1	70
51	Hydrodynamics of flexible fins propelled in tandem, diagonal, triangular and diamond configurations. <i>Journal of Fluid Mechanics</i> , 2018, 840, 154-189.	1.4	70
52	Forced convection from an isolated heat source in a channel with porous medium. <i>International Journal of Heat and Fluid Flow</i> , 1995, 16, 527-535.	1.1	69
53	Comparison of very-large-scale motions of turbulent pipe and boundary layer simulations. <i>Physics of Fluids</i> , 2013, 25, .	1.6	69
54	An improved penalty immersed boundary method for fluid-flexible body interaction. <i>Journal of Computational Physics</i> , 2011, 230, 5061-5079.	1.9	67

#	ARTICLE	IF	CITATIONS
55	Enhancement of heat transfer by a self-oscillating inverted flag in a Poiseuille channel flow. International Journal of Heat and Mass Transfer, 2016, 96, 362-370.	2.5	67
56	Development of a near-wall turbulence model and application to jet impingement heat transfer. International Journal of Heat and Fluid Flow, 2001, 22, 10-18.	1.1	66
57	Mixed convection from multiple-layered boards with cross-streamwise periodic boundary conditions. International Journal of Heat and Mass Transfer, 1992, 35, 2941-2952.	2.5	62
58	Experimental Investigation of Uniform-Shear Flow Past a Circular Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 1992, 114, 457-460.	0.8	61
59	Signature of large-scale motions on turbulent/non-turbulent interface in boundary layers. Journal of Fluid Mechanics, 2017, 819, 165-187.	1.4	61
60	Vortex shedding from a circular cylinder near a moving wall. Journal of Fluids and Structures, 2007, 23, 1064-1076.	1.5	59
61	On-demand acoustic droplet splitting and steering in a disposable microfluidic chip. Lab on A Chip, 2018, 18, 422-432.	3.1	59
62	Visualization of a locally-forced separated flow over a backward-facing step. Experiments in Fluids, 1998, 25, 133-142.	1.1	55
63	Particle Separation inside a Sessile Droplet with Variable Contact Angle Using Surface Acoustic Waves. Analytical Chemistry, 2017, 89, 736-744.	3.2	54
64	Effect of GDL permeability on water and thermal management in PEMFCs. Clamping force. International Journal of Hydrogen Energy, 2008, 33, 3786-3800.	3.8	53
65	Quasi-periodicity in the wake of a rotationally oscillating cylinder. Journal of Fluid Mechanics, 2000, 408, 275-300.	1.4	52
66	Lamb Wave-Based Acoustic Radiation Force-Driven Particle Ring Formation Inside a Sessile Droplet. Analytical Chemistry, 2016, 88, 3976-3981.	3.2	51
67	Interaction modes of multiple flexible flags in a uniform flow. Journal of Fluid Mechanics, 2013, 729, 563-583.	1.4	50
68	Acoustothermal tweezer for droplet sorting in a disposable microfluidic chip. Lab on A Chip, 2017, 17, 1031-1040.	3.1	50
69	Assessment of the organization of a turbulent separated and reattaching flow by measuring wall pressure fluctuations. Experiments in Fluids, 2005, 38, 485-493.	1.1	48
70	Contribution of velocity-vorticity correlations to the frictional drag in wall-bounded turbulent flows. Physics of Fluids, 2016, 28, .	1.6	48
71	Sheathless Focusing and Separation of Microparticles Using Tilted-Angle Traveling Surface Acoustic Waves. Analytical Chemistry, 2018, 90, 8546-8552.	3.2	48
72	Unsteady separated and reattaching turbulent flow over a two-dimensional square rib. Journal of Fluids and Structures, 2008, 24, 366-381.	1.5	47

#	ARTICLE	IF	CITATIONS
73	Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. <i>Nanoscale</i> , 2014, 6, 2895.	2.8	47
74	Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. <i>Nanoscale</i> , 2013, 5, 3698.	2.8	45
75	Heat transfer enhancement by asymmetrically clamped flexible flags in a channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 1003-1015.	2.5	45
76	Comparative Study of Inflow Conditions for Spatially Evolving Simulation. <i>AIAA Journal</i> , 1997, 35, 269-274.	1.5	44
77	A further assessment of interpolation schemes for window deformation in PIV. <i>Experiments in Fluids</i> , 2006, 41, 499-511.	1.1	44
78	Optimum geometrical design for improved fuel utilization in membraneless micro fuel cell. <i>Journal of Power Sources</i> , 2008, 185, 143-152.	4.0	44
79	Large-eddy simulation of turbulent flow in a concentric annulus with rotation of an inner cylinder. <i>International Journal of Heat and Fluid Flow</i> , 2005, 26, 191-203.	1.1	43
80	Effect of GDL permeability on water and thermal management in PEMFCs. Isotropic and anisotropic permeability. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3767-3785.	3.8	43
81	Enhancement by optical force of separation in pinched flow fractionation. <i>Lab on A Chip</i> , 2011, 11, 354-357.	3.1	43
82	In-droplet microparticle washing and enrichment using surface acoustic wave-driven acoustic radiation force. <i>Lab on A Chip</i> , 2018, 18, 2936-2945.	3.1	43
83	Surface acoustic wave-based micromixing enhancement using a single interdigital transducer. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	43
84	Analysis of heat transfer in a pipe carrying two-phase gas-particle suspension. <i>International Journal of Heat and Mass Transfer</i> , 1991, 34, 69-78.	2.5	42
85	Hydrodynamics of a self-propelled flexible fin near the ground. <i>Physics of Fluids</i> , 2017, 29, .	1.6	42
86	Simulation of non-Newtonian ink transfer between two separating plates for gravure-offset printing. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 298-307.	1.1	41
87	Actively flapping tandem flexible flags in a viscous flow. <i>Journal of Fluid Mechanics</i> , 2015, 780, 120-142.	1.4	41
88	Heat transfer enhancement by flexible flags clamped vertically in a Poiseuille channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 391-402.	2.5	41
89	Influence of large-scale motions on the frictional drag in a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2017, 829, 751-779.	1.4	41
90	Permeability of microscale fibrous porous media using the lattice Boltzmann method. <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 435-443.	1.1	40

#	ARTICLE	IF	CITATIONS
91	Effect of local forcing on a turbulent boundary layer. <i>Experiments in Fluids</i> , 2001, 31, 384-393.	1.1	39
92	Self-sustained oscillations of turbulent flows over an open cavity. <i>Experiments in Fluids</i> , 2008, 45, 693-702.	1.1	39
93	Simulation of swimming oblate jellyfish with a paddling-based locomotion. <i>Journal of Fluid Mechanics</i> , 2014, 748, 731-755.	1.4	39
94	Travelling Surface Acoustic Waves Microfluidics. <i>Physics Procedia</i> , 2015, 70, 34-37.	1.2	39
95	Acoustic impedance-based manipulation of elastic microspheres using travelling surface acoustic waves. <i>RSC Advances</i> , 2017, 7, 22524-22530.	1.7	39
96	Relationship between wall pressure fluctuations and streamwise vortices in a turbulent boundary layer. <i>Physics of Fluids</i> , 2002, 14, 898-901.	1.6	38
97	On-Demand Droplet Capture and Release Using Microwell-Assisted Surface Acoustic Waves. <i>Analytical Chemistry</i> , 2017, 89, 2211-2215.	3.2	38
98	Direct numerical simulation of turbulent concentric annular pipe flow. <i>International Journal of Heat and Fluid Flow</i> , 2003, 24, 399-411.	1.1	37
99	Streak instability in turbulent channel flow: the seeding mechanism of large-scale motions. <i>Journal of Fluid Mechanics</i> , 2017, 832, 483-513.	1.4	37
100	Vertical Hydrodynamic Focusing and Continuous Acoustofluidic Separation of Particles via Upward Migration. <i>Advanced Science</i> , 2018, 5, 1700285.	5.6	37
101	Development of a nonlinear near-wall turbulence model for turbulent flow and heat transfer. <i>International Journal of Heat and Fluid Flow</i> , 2003, 24, 29-40.	1.1	36
102	A dye-sensitized solar cell based on a boron-doped ZnO (BZO) film with double light-scattering-layers structured photoanode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5408.	5.2	36
103	Continuous synthesis of zinc oxide nanoparticles in a microfluidic system for photovoltaic application. <i>Nanoscale</i> , 2014, 6, 2840.	2.8	36
104	Comparison of large- and very-large-scale motions in turbulent pipe and channel flows. <i>Physics of Fluids</i> , 2015, 27, .	1.6	36
105	Experimental study on mass transfer from a circular cylinder in pulsating flow. <i>International Journal of Heat and Mass Transfer</i> , 1994, 37, 2203-2210.	2.5	35
106	Effect of spanwise-varying local forcing on turbulent separated flow over a backward-facing step. <i>Experiments in Fluids</i> , 1999, 26, 437-440.	1.1	35
107	An H-shaped design for membraneless micro fuel cells. <i>Electrochimica Acta</i> , 2009, 54, 4416-4425.	2.6	35
108	Optical separation of droplets on a microfluidic platform. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 635-644.	1.0	35

#	ARTICLE	IF	CITATIONS
109	Transfer of Microparticles across Laminar Streams from Non-Newtonian to Newtonian Fluid. <i>Analytical Chemistry</i> , 2016, 88, 4205-4210.	3.2	35
110	Micro PIV measurement of two-fluid flow with different refractive indices. <i>Measurement Science and Technology</i> , 2004, 15, 1097-1103.	1.4	34
111	Effects of unsteady blowing through a spanwise slot on a turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2006, 557, 423.	1.4	34
112	Improvement of mass source/sink for an immersed boundary method. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1659-1671.	0.9	34
113	Hydrothermally Grown Upright-Standing Nanoporous Nanosheets of Iodine-Doped ZnO (ZnO:I) Nanocrystallites for a High-Efficiency Dye-Sensitized Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3075-3084.	4.0	34
114	Turbulent boundary layers over sparsely-spaced rod-roughened walls. <i>International Journal of Heat and Fluid Flow</i> , 2015, 56, 16-27.	1.1	34
115	Self-propelled heaving and pitching flexible fin in a quiescent flow. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 273-281.	1.1	34
116	Effects of the shape of an inverted flag on its flapping dynamics. <i>Physics of Fluids</i> , 2019, 31, .	1.6	34
117	Direct numerical simulation of a turbulent boundary layer up to $Re_{\tau}^+=2500$. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 1-10.	1.1	33
118	Inertial migration of an elastic capsule in a Poiseuille flow. <i>Physical Review E</i> , 2011, 83, 046321.	0.8	33
119	Direct numerical simulations of fully developed turbulent pipe flows for $Re_{\tau}^+=180, 544$ and 934 . <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 222-228.	1.1	33
120	Highly Conductive, Bendable, Embedded Ag Nanoparticle Wire Arrays Via Convective Self-Assembly: Hybridization into Ag Nanowire Transparent Conductors. <i>Advanced Functional Materials</i> , 2015, 25, 3888-3898.	7.8	33
121	Dynamics of prolate jellyfish with a jet-based locomotion. <i>Journal of Fluids and Structures</i> , 2015, 57, 331-343.	1.5	33
122	Wall-attached clusters for the logarithmic velocity law in turbulent pipe flow. <i>Physics of Fluids</i> , 2019, 31, .	1.6	33
123	Wall-attached structures of streamwise velocity fluctuations in an adverse-pressure-gradient turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	1.4	33
124	Wall pressure fluctuations of a turbulent separated and reattaching flow affected by an unsteady wake. <i>Experiments in Fluids</i> , 2004, 37, 531-546.	1.1	32
125	Acoustic Wave-Driven Functionalized Particles for Aptamer-Based Target Biomolecule Separation. <i>Analytical Chemistry</i> , 2017, 89, 13313-13319.	3.2	32
126	Hydrodynamics of a three-dimensional self-propelled flexible plate. <i>Physics of Fluids</i> , 2019, 31, .	1.6	32

#	ARTICLE	IF	CITATIONS
127	Local convective mass transfer on circular cylinder with transverse annular fins in crossflow. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 1093-1101.	2.5	31
128	Response of a circular cylinder wake to superharmonic excitation. <i>Journal of Fluid Mechanics</i> , 2001, 442, 67-88.	1.4	31
129	Control of solutal Marangoni-driven vortical flows and enhancement of mixing efficiency. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 408-415.	5.0	31
130	A lubricant-infused slip surface for drag reduction. <i>Physics of Fluids</i> , 2020, 32, .	1.6	31
131	Effects of background noise on generating coherent packets of hairpin vortices. <i>Physics of Fluids</i> , 2008, 20, .	1.6	30
132	Effects of Periodic Blowing from Spanwise Slot on a Turbulent Boundary Layer. <i>AIAA Journal</i> , 2003, 41, 1916-1924.	1.5	29
133	A new low-Reynolds-number $k-\mu-f^{1/4}$ model for predictions involving multiple surfaces. <i>Fluid Dynamics Research</i> , 1997, 20, 97-113.	0.6	28
134	Modulation of Near-Wall Turbulence Structure with Wall Blowing and Suction. <i>AIAA Journal</i> , 2002, 40, 1529-1535.	1.5	28
135	Flow Oscillations and Meniscus Fluctuations in a Funnel-Type Water Mold Model. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010, 41, 121-130.	1.0	28
136	PIV measurement of flow around an arbitrarily moving body. <i>Experiments in Fluids</i> , 2011, 50, 787-798.	1.1	28
137	Performance of H-shaped membraneless micro fuel cells. <i>Journal of Power Sources</i> , 2013, 226, 266-271.	4.0	28
138	A Pumpless Acoustofluidic Platform for Size-Selective Concentration and Separation of Microparticles. <i>Analytical Chemistry</i> , 2017, 89, 13575-13581.	3.2	28
139	Microparticle self-assembly induced by travelling surface acoustic waves. <i>RSC Advances</i> , 2019, 9, 7916-7921.	1.7	28
140	Development of a microfluidic device for simultaneous mixing and pumping. <i>Experiments in Fluids</i> , 2009, 46, 85-95.	1.1	27
141	Flow Force Analysis of a Variable Force Solenoid Valve for Automatic Transmissions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2010, 132, .	0.8	27
142	Non-Newtonian ink transfer in gravure offset printing. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 308-317.	1.1	27
143	Cavitation instabilities of an inducer in a cryogenic pump. <i>Acta Astronautica</i> , 2017, 132, 19-24.	1.7	27
144	Flapping dynamics of inverted flags in a side-by-side arrangement. <i>International Journal of Heat and Fluid Flow</i> , 2018, 70, 131-140.	1.1	27

#	ARTICLE	IF	CITATIONS
145	Acoustofluidic generation of droplets with tunable chemical concentrations. <i>Lab on A Chip</i> , 2020, 20, 3922-3929.	3.1	27
146	Wall pressure fluctuations and flow-induced noise in a turbulent boundary layer over a bump. <i>Journal of Fluid Mechanics</i> , 2006, 558, 79.	1.4	26
147	Direct Micro/Nano Patterning of Multiple Colored Quantum Dots by Large Area and Multilayer Imprinting. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11728-11733.	1.5	26
148	In-droplet microparticle separation using travelling surface acoustic wave. <i>Biomicrofluidics</i> , 2017, 11, 064112.	1.2	26
149	Contribution of large-scale motions to the skin friction in a moderate adverse pressure gradient turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 2018, 848, 288-311.	1.4	26
150	PIV measurements of flow around an arbitrarily moving free surface. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	25
151	A nonlinear low-Reynolds-number $k\text{-}\hat{\mu}$ model for turbulent separated and reattaching flows. Thermal field computations. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 3465-3474.	2.5	24
152	Characteristics of wall pressure fluctuations in separated flows over a backward-facing step. <i>Experiments in Fluids</i> , 2001, 30, 273-282.	1.1	24
153	Initial Relaxation of Spatially Evolving Turbulent Channel Flow with Blowing and Suction. <i>AIAA Journal</i> , 2001, 39, 2091-2099.	1.5	24
154	Spatiotemporally controllable acoustothermal heating and its application to disposable thermochromic displays. <i>RSC Advances</i> , 2016, 6, 33937-33944.	1.7	24
155	Scaling of rough-wall turbulence by the roughness height and steepness. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	1.4	24
156	Three-dimensional microfluidic liquid-core/liquid-cladding waveguide. <i>Applied Physics Letters</i> , 2010, 97, 021109.	1.5	23
157	Turbulent boundary layers over rod- and cube-roughened walls. <i>Journal of Turbulence</i> , 2012, 13, N40.	0.5	23
158	A dual-functional double-layer film with indium-doped ZnO nanosheets/nanoparticles structured photoanodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 25136.	1.7	23
159	The Scale Characteristics and Formation Mechanism of Aeolian Sand Streamers Based on Large Eddy Simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11372-11388.	1.2	23
160	Four-equation turbulence model for prediction of the turbulent boundary layer affected by buoyancy force over a flat plate. <i>International Journal of Heat and Mass Transfer</i> , 1984, 27, 2387-2395.	2.5	22
161	Prediction of transient oscillating flow in Czocharlski convection. <i>International Journal of Heat and Mass Transfer</i> , 1995, 38, 1627-1636.	2.5	22
162	Technical Note Conjugate heat and mass transfer in metal hydride beds in the hydriding process. <i>International Journal of Heat and Mass Transfer</i> , 1999, 42, 379-382.	2.5	22

#	ARTICLE	IF	CITATIONS
163	Wall Pressure Fluctuations in a Turbulent Boundary Layer After Blowing or Suction. <i>AIAA Journal</i> , 2003, 41, 1697-1704.	1.5	22
164	Pumping and mixing in a microchannel using AC asymmetric electrode arrays. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 269-280.	1.1	22
165	Large-scale structures of turbulent flows over an open cavity. <i>Journal of Fluids and Structures</i> , 2009, 25, 1318-1333.	1.5	22
166	Structure of the turbulent boundary layer over a rod-roughened wall. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 1087-1098.	1.1	22
167	Generation of Dynamic Free-Form Temperature Gradients in a Disposable Microchip. <i>Analytical Chemistry</i> , 2015, 87, 11568-11574.	3.2	22
168	Influence of a large-eddy breakup device on the frictional drag in a turbulent boundary layer. <i>Physics of Fluids</i> , 2017, 29, .	1.6	22
169	Space-time formation of very-large-scale motions in turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2019, 881, 1010-1047.	1.4	22
170	Specialization of tuna: A numerical study on the function of caudal keels. <i>Physics of Fluids</i> , 2020, 32, .	1.6	22
171	Measurement of local forcing on a turbulent boundary layer using PIV. <i>Experiments in Fluids</i> , 2003, 34, 697-707.	1.1	21
172	Characterization of the three-dimensional turbulent boundary layer in a concentric annulus with a rotating inner cylinder. <i>Physics of Fluids</i> , 2006, 18, 115102.	1.6	21
173	Reactants flow behavior and water management for different current densities in PEMFC. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 2006-2019.	2.5	21
174	Organized Self-Sustained Oscillations of Turbulent Flows over an Open Cavity. <i>AIAA Journal</i> , 2008, 46, 2848-2856.	1.5	21
175	Self-Sustained Oscillations of Turbulent Flow in an Open Cavity. <i>Journal of Aircraft</i> , 2010, 47, 820-834.	1.7	21
176	Large-scale motions in a turbulent channel flow with the slip boundary condition. <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 96-107.	1.1	21
177	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10937-10945.	4.0	21
178	Flapping dynamics of a flexible plate with Navier slip. <i>Physics of Fluids</i> , 2019, 31, .	1.6	21
179	Spatial simulation of the instability of channel flow with local suction/blowing. <i>Physics of Fluids</i> , 1997, 9, 3258-3266.	1.6	20
180	PIV measurements of turbulent boundary layer over a rod-roughened wall. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 1679-1687.	1.1	20

#	ARTICLE	IF	CITATIONS
181	Dynamic fluid-structure interaction of an elastic capsule in a viscous shear flow at moderate Reynolds number. <i>Journal of Fluids and Structures</i> , 2011, 27, 438-455.	1.5	20
182	Multiphysics Analysis of a Linear Control Solenoid Valve. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	0.8	20
183	Optical mobility of blood cells for label-free cell separation applications. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	20
184	Flapping dynamics of vertically clamped three-dimensional flexible flags in a Poiseuille flow. <i>Physics of Fluids</i> , 2020, 32, .	1.6	20
185	An experimental study of large-scale vortices over a blunt-faced flat plate in pulsating flow. <i>Experiments in Fluids</i> , 2001, 30, 202-213.	1.1	19
186	On the wake with and without vortex shedding suppression behind a two-dimensional square cylinder in proximity to a plane wall. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010, 98, 492-503.	1.7	19
187	Three-dimensional simulation of a valveless pump. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 942-951.	1.1	19
188	Simulation of small swimmer motions driven by tail/flagellum beating. <i>Computers and Fluids</i> , 2012, 55, 109-117.	1.3	19
189	Self-propelled flexible fin in the wake of a circular cylinder. <i>Physics of Fluids</i> , 2016, 28, .	1.6	19
190	Simulation of fluid-flexible body interaction with heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 20-33.	2.5	19
191	Numerical prediction of locally forced turbulent separated and reattaching flow. <i>Fluid Dynamics Research</i> , 2000, 26, 421-436.	0.6	18
192	Assessment of Local Blowing and Suction in a Turbulent Boundary Layer. <i>AIAA Journal</i> , 2002, 40, 175-177.	1.5	18
193	Instability of streaky structure in a Blasius boundary layer. <i>Experiments in Fluids</i> , 2005, 38, 363-371.	1.1	18
194	Vacuum-assisted microcontact printing ($\hat{1}/4$ CP) for aligned patterning of nano and biochemical materials. <i>Journal of Materials Chemistry C</i> , 2013, 1, 268-274.	2.7	18
195	Influence of large-scale accelerating motions on turbulent pipe and channel flows. <i>Journal of Fluid Mechanics</i> , 2016, 804, 420-441.	1.4	18
196	Flapping dynamics of a flexible propulsor near ground. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 991-1000.	1.5	18
197	Heat transfer enhancement in a poiseuille channel flow by using multiple wall-mounted flexible flags. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120447.	2.5	18
198	Phase-mediated locomotion of two self-propelled flexible plates in a tandem arrangement. <i>Physics of Fluids</i> , 2020, 32, .	1.6	18

#	ARTICLE	IF	CITATIONS
199	Acoustofluidic Separation of Proteins Using Aptamer-Functionalized Microparticles. <i>Analytical Chemistry</i> , 2021, 93, 8309-8317.	3.2	18
200	Design of a deflected membrane electrode assembly for PEMFCs. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 5443-5453.	2.5	17
201	Characterization of a Microscale Cascade Impactor. <i>Aerosol Science and Technology</i> , 2012, 46, 966-972.	1.5	17
202	Optical levitation of a non-spherical particle in a loosely focused Gaussian beam. <i>Optics Express</i> , 2012, 20, 24068.	1.7	17
203	Three-dimensional hydrodynamic flow and particle focusing using four vortices Dean flow. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 647-655.	1.0	17
204	In situ seriate droplet coalescence under an optical force. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1247-1254.	1.0	17
205	Model for tracing the path of microparticles in continuous flow microfluidic devices for 2D focusing via standing acoustic waves. <i>Separation and Purification Technology</i> , 2015, 153, 99-107.	3.9	17
206	Photoinduced synthesis of Ag nanoparticles on ZnO nanowires for real-time SERS systems. <i>RSC Advances</i> , 2015, 5, 51-57.	1.7	17
207	High frequency travelling surface acoustic waves for microparticle separation. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 3945-3952.	0.7	17
208	Undulatory topographical waves for flow-induced foulant sweeping. <i>Science Advances</i> , 2019, 5, eaax8935.	4.7	17
209	Application of a near-wall turbulence model to the flows over a step with inclined wall. <i>International Journal of Heat and Fluid Flow</i> , 1997, 18, 209-217.	1.1	16
210	Effects of an axisymmetric contraction on a turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2011, 687, 376-403.	1.4	16
211	Spatiotemporal representation of the dynamic modes in turbulent cavity flows. <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 1-13.	1.1	16
212	Effect of printing parameters on gravure patterning with conductive silver ink. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 045004.	1.5	16
213	Comparison of Accuracy of One-Use Methods for Calculating Fractional Flow Reserve by Intravascular Optical Coherence Tomography to That Determined by the Pressure-Wire Method. <i>American Journal of Cardiology</i> , 2017, 120, 1920-1925.	0.7	16
214	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. <i>Scientific Reports</i> , 2017, 7, 11220.	1.6	16
215	Double-diffusive convection in a rotating annulus with horizontal temperature and vertical solutal gradients. <i>International Journal of Heat and Mass Transfer</i> , 1993, 36, 3773-3782.	2.5	15
216	Experimental Study of Uniform-Shear Flow Past a Rotating Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1995, 117, 62-67.	0.8	15

#	ARTICLE	IF	CITATIONS
217	Digital-Mode Organic Vapor-Jet Printing (D ² OVJP): Advanced Jet-on-Demand Control of Organic Thin-Film Deposition. <i>Advanced Materials</i> , 2012, 24, 2857-2862.	11.1	15
218	Turbulent thermal boundary layers with temperature-dependent viscosity. <i>International Journal of Heat and Fluid Flow</i> , 2014, 49, 43-52.	1.1	15
219	Cavitation Instabilities During the Development Testing of a Liquid Oxygen Pump. <i>Journal of Propulsion and Power</i> , 2017, 33, 187-192.	1.3	15
220	Influence of backflow on skin friction in turbulent pipe flow. <i>Physics of Fluids</i> , 2018, 30, .	1.6	15
221	Statistical behaviour of self-similar structures in canonical wall turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 905, .	1.4	15
222	Large-scale vortical structure of turbulent separation bubble affected by unsteady wake. <i>Experiments in Fluids</i> , 2003, 34, 572-584.	1.1	14
223	Propagation of orifice- and nozzle-generated vortex rings in air. <i>Journal of Visualization</i> , 2009, 12, 139-156.	1.1	14
224	Three-dimensional PIV measurement of flow around an arbitrarily moving body. <i>Experiments in Fluids</i> , 2012, 53, 1057-1071.	1.1	14
225	Statistics of the turbulent boundary layers over 3D cube-roughened walls. <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 394-402.	1.1	14
226	Inertial migration of a 3D elastic capsule in a plane Poiseuille flow. <i>International Journal of Heat and Fluid Flow</i> , 2015, 54, 87-96.	1.1	14
227	Intermittent locomotion of a self-propelled plate. <i>Physics of Fluids</i> , 2019, 31, 111902.	1.6	14
228	Prediction of two-dimensional momentumless wake by k-epsilon-gamma model. <i>AIAA Journal</i> , 1995, 33, 611-617.	1.5	13
229	Transition flow modes in Czochralski convection. <i>Journal of Crystal Growth</i> , 1997, 180, 305-314.	0.7	13
230	PULSATING FLOW AND HEAT TRANSFER IN AN ANNULUS PARTIALLY FILLED WITH POROUS MEDIA. <i>Numerical Heat Transfer; Part A: Applications</i> , 1997, 31, 517-527.	1.2	13
231	A nonlinear low-Reynolds number heat transfer model for turbulent separated and reattaching flows. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 1439-1448.	2.5	13
232	Suboptimal control for drag reduction in turbulent pipe flow. <i>Fluid Dynamics Research</i> , 2002, 30, 217-231.	0.6	13
233	Optofluidic particle manipulation in a liquid-core/liquid-cladding waveguide. <i>Optics Express</i> , 2012, 20, 17348.	1.7	13
234	Dynamics of an elastic capsule in moderate Reynolds number Poiseuille flow. <i>International Journal of Heat and Fluid Flow</i> , 2012, 36, 167-177.	1.1	13

#	ARTICLE	IF	CITATIONS
235	Tomographic PIV measurements of flow patterns in a nasal cavity with geometry acquisition. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	13
236	Flapping dynamics of a flexible flag in a uniform flow. <i>Fluid Dynamics Research</i> , 2014, 46, 055517.	0.6	13
237	Integrated real-time optofluidic SERS via a liquid-core/liquid-cladding waveguide. <i>RSC Advances</i> , 2015, 5, 922-927.	1.7	13
238	Contribution of large-scale motions to the Reynolds shear stress in turbulent pipe flows. <i>International Journal of Heat and Fluid Flow</i> , 2017, 66, 209-216.	1.1	13
239	Microfluidic flow switching via localized acoustic streaming controlled by surface acoustic waves. <i>RSC Advances</i> , 2018, 8, 3206-3212.	1.7	13
240	Vertically clamped flexible flags in a Poiseuille flow. <i>Physics of Fluids</i> , 2020, 32, .	1.6	13
241	Response of a spatially developing turbulent boundary layer to a spanwise oscillating electromagnetic force. <i>Journal of Turbulence</i> , 2005, 6, N39.	0.5	12
242	Local current density and water management in PEMFCs. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3376-3389.	2.5	12
243	Nondimensional analysis of particle behavior during cross-type optical particle separation. <i>Applied Optics</i> , 2009, 48, 4291.	2.1	12
244	The geometrical design of membraneless micro fuel cells: Failure and success. <i>International Journal of Energy Research</i> , 2010, 34, 878-896.	2.2	12
245	Flexible ring flapping in a uniform flow. <i>Journal of Fluid Mechanics</i> , 2012, 707, 129-149.	1.4	12
246	An atmospheric pressure-based electrospinning route to fabricate the multi-applications bilayer (AZO/ITO) TCO films. <i>RSC Advances</i> , 2013, 3, 25741.	1.7	12
247	Fabrication of Tantalum and Nitrogen Codoped ZnO (Ta, N-ZnO) Thin Films Using the Electrospinning: Twin Applications as an Excellent Transparent Electrode and a Field Emitter. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3722-3730.	4.0	12
248	Vortex interaction between two tandem flexible propulsors with a paddling-based locomotion. <i>Journal of Fluid Mechanics</i> , 2016, 793, 612-632.	1.4	12
249	Wall-attached structures over a traveling wavy boundary: Turbulent velocity fluctuations. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	12
250	Numerical prediction of locally forced turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2001, 22, 624-632.	1.1	11
251	Simultaneous mixing and pumping using asymmetric microelectrodes. <i>Journal of Applied Physics</i> , 2007, 102, 074513.	1.1	11
252	Coherent structures in turbulent boundary layers with adverse pressure gradients. <i>Journal of Turbulence</i> , 2010, 11, N28.	0.5	11

#	ARTICLE	IF	CITATIONS
253	PIV measurements of the flow patterns in a CANDU-6 model. <i>Annals of Nuclear Energy</i> , 2016, 98, 1-11.	0.9	11
254	Depletion of lubricant impregnated in a cavity of lubricant-infused surface. <i>Physics of Fluids</i> , 2021, 33, .	1.6	11
255	Resolution of Cross-Type Optical Particle Separation. <i>Analytical Chemistry</i> , 2008, 80, 6023-6028.	3.2	10
256	Wavelet spatial scaling for educing dynamic structures in turbulent open cavity flows. <i>Journal of Fluids and Structures</i> , 2011, 27, 962-975.	1.5	10
257	Optical separation of ellipsoidal particles in a uniform flow. <i>Physics of Fluids</i> , 2014, 26, 062001.	1.6	10
258	Breakup behavior of a molten metal jet. <i>International Journal of Heat and Fluid Flow</i> , 2014, 50, 27-37.	1.1	10
259	Deterministic bead-in-droplet ejection utilizing an integrated plug-in bead dispenser for single bead-based applications. <i>Scientific Reports</i> , 2017, 7, 46260.	1.6	10
260	Schooling behavior of rigid and flexible heaving airfoils. <i>International Journal of Heat and Fluid Flow</i> , 2018, 69, 224-233.	1.1	10
261	Azimuthal organization of large-scale motions in a turbulent minimal pipe flow. <i>Physics of Fluids</i> , 2019, 31, 055113.	1.6	10
262	Design of the centrifugal fan of a belt-driven starter generator with reduced flow noise. <i>International Journal of Heat and Fluid Flow</i> , 2019, 76, 72-84.	1.1	10
263	Manipulation of cancer cells in a sessile droplet<i>via</i>travelling surface acoustic waves. <i>Lab on A Chip</i> , 2021, 22, 47-56.	3.1	10
264	Mass transfer measurements from a blunt-faced flat plate in a uniform flow. <i>International Journal of Heat and Fluid Flow</i> , 1996, 17, 179-182.	1.1	9
265	Influence of unsteady wake on a turbulent separation bubble. <i>Experiments in Fluids</i> , 2002, 32, 269-279.	1.1	9
266	Direct numerical simulation of stagnation region flow and heat transfer with free-stream turbulence. <i>Physics of Fluids</i> , 2003, 15, 1462.	1.6	9
267	Influence of local ultrasonic forcing on a turbulent boundary layer. <i>Experiments in Fluids</i> , 2005, 39, 966-976.	1.1	9
268	A wall-bounded turbulent mixing layer flow over an open step: I. Time-mean and spectral characteristics. <i>Journal of Turbulence</i> , 2006, 7, N65.	0.5	9
269	Optical mobility in cross-type optical particle separation. <i>Applied Physics Letters</i> , 2008, 93, 044103.	1.5	9
270	Radiation forces on a microsphere in an arbitrary refractive index profile. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 407.	0.9	9

#	ARTICLE	IF	CITATIONS
271	Direct numerical simulations of turbulent flow in a conical diffuser. <i>Journal of Turbulence</i> , 2012, 13, N30.	0.5	9
272	Simulation of a valveless pump with an elastic tube. <i>International Journal of Heat and Fluid Flow</i> , 2012, 38, 13-23.	1.1	9
273	An autonomous flexible propulsor in a quiescent flow. <i>International Journal of Heat and Fluid Flow</i> , 2017, 68, 151-157.	1.1	9
274	Characterization of microchannel anechoic corners formed by surface acoustic waves. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	9
275	Hydrodynamics of a self-propelled flexible fin in perturbed flows. <i>Mechanical Engineering Reviews</i> , 2018, 5, 17-00286-17-00286.	4.7	9
276	Spontaneous Additive Nanopatterning from Solution Route Using Selective Wetting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26501-26509.	4.0	9
277	Investigation of DPD transport properties in modeling bioparticle motion under the effect of external forces: Low Reynolds number and high Schmidt scenarios. <i>Journal of Chemical Physics</i> , 2019, 150, 054901.	1.2	9
278	Antibiotic susceptibility test under a linear concentration gradient using travelling surface acoustic waves. <i>Lab on A Chip</i> , 2021, 21, 3449-3457.	3.1	9
279	Influence of wall-attached structures on the boundary of the quiescent core region in turbulent pipe flow. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	9
280	Hydrodynamic benefits of pectoral fins in a self-propelled flexible plate. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
281	Drag reduction by a rotationally oscillating cylinder with a flexible filament. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
282	A low-Reynolds-number, four-equation heat transfer model for turbulent separated and reattaching flows. <i>International Journal of Heat and Fluid Flow</i> , 1997, 18, 38-44.	1.1	8
283	Flow and mass transfer measurements for a flat plate of finite thickness in pulsating flow. <i>International Journal of Heat and Mass Transfer</i> , 1998, 41, 2827-2836.	2.5	8
284	Assessment of suboptimal control for drag reduction in turbulent channel flow. <i>Journal of Turbulence</i> , 2002, 3, N29.	0.5	8
285	Nonlinear particle behavior during cross-type optical particle separation. <i>Applied Physics Letters</i> , 2009, 95, 264101.	1.5	8
286	Lateral migration of an elastic capsule by optical force in a uniform flow. <i>Physical Review E</i> , 2012, 86, 066306.	0.8	8
287	Structural organization of the quiescent core region in a turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 455-463.	1.1	8
288	A self-propelled flexible plate with a Navier slip surface. <i>Physics of Fluids</i> , 2020, 32, 021906.	1.6	8

#	ARTICLE	IF	CITATIONS
289	A self-propelled flexible plate with a keel-like structure. <i>Physics of Fluids</i> , 2021, 33, .	1.6	8
290	Drag reduction by a flexible afterbody. <i>Physics of Fluids</i> , 2021, 33, .	1.6	8
291	Large-Scale Turbulent Vortical Structures inside a Sudden Expansion Cylinder Chamber. <i>Flow, Turbulence and Combustion</i> , 2002, 68, 269-287.	1.4	7
292	Wall Pressure Fluctuations in a Turbulent Boundary Layer over a Bump. <i>AIAA Journal</i> , 2006, 44, 1393-1401.	1.5	7
293	Effect of hydrophobic microstructured surfaces on conductive ink printing. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 095026.	1.5	7
294	Structures of turbulent open-channel flow in the presence of an air-water interface. <i>Journal of Turbulence</i> , 2012, 13, N18.	0.5	7
295	Assessment of cross-type optical particle separation system. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 9-17.	1.0	7
296	Pattern analysis of aligned nanowires in a microchannel. <i>Measurement Science and Technology</i> , 2013, 24, 035303.	1.4	7
297	Microchannel Anechoic Corner for Microparticle Manipulation via Travelling Surface Acoustic Waves. <i>Physics Procedia</i> , 2015, 70, 30-33.	1.2	7
298	Direct patterning of ZnO thin film transistor using physical vapor jet printing. <i>Materials Letters</i> , 2016, 163, 165-170.	1.3	7
299	Turbulent structures in an optimal Taylor-Couette flow between concentric counter-rotating cylinders. <i>Journal of Turbulence</i> , 2017, 18, 480-496.	0.5	7
300	Turbulent boundary layer over a divergent convergent superhydrophobic surface. <i>Physics of Fluids</i> , 2017, 29, 085112.	1.6	7
301	Relationship between streamwise and azimuthal length scales in a turbulent pipe flow. <i>Physics of Fluids</i> , 2017, 29, 105112.	1.6	7
302	Computational Study of Turbulent Gas-Particle Flow in a Venturi. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1986, 108, 248-253.	0.8	6
303	Application of Lumley's Drag Reduction Model to Two-Phase Gas-Particle Flow in a Pipe. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1991, 113, 130-136.	0.8	6
304	Assessment of turbulent spectral bias in laser Doppler velocimetry. <i>Experiments in Fluids</i> , 1994, 16-16, 223-235.	1.1	6
305	Visualizations of large-scale vortices in flow about a blunt-faced flat plate. <i>Experiments in Fluids</i> , 2000, 29, 198-201.	1.1	6
306	Breakdown of the Reynolds Analogy in a Stagnation Region Under Inflow Disturbances. <i>Theoretical and Computational Fluid Dynamics</i> , 2001, 14, 377-398.	0.9	6

#	ARTICLE	IF	CITATIONS
307	High-Performance Pentacene Thin-Film Transistors Fabricated by Organic Vapor-Jet Printing. IEEE Electron Device Letters, 2010, , .	2.2	6
308	Refractive-index-based optofluidic particle manipulation. Applied Physics Letters, 2013, 103, .	1.5	6
309	Dynamic manipulation of particles via transformative optofluidic waveguides. Scientific Reports, 2015, 5, 15170.	1.6	6
310	Photosynthesis of cyanobacteria in a miniaturized optofluidic waveguide platform. RSC Advances, 2016, 6, 11081-11087.	1.7	6
311	The reduction of noise induced by flow over an open cavity. International Journal of Heat and Fluid Flow, 2020, 82, 108560.	1.1	6
312	Hydrodynamic benefit of cephalic fins in a self-propelled flexible manta ray. Physics of Fluids, 2021, 33, .	1.6	6
313	Scaling of rough-wall turbulence in a transitionally rough regime. Physics of Fluids, 2022, 34, .	1.6	6
314	Acoustofluidic Stimulation of Functional Immune Cells in a Microreactor. Advanced Science, 2022, 9, e2105809.	5.6	6
315	Local mass transfer from a circular cylinder in a uniform shear flow. International Journal of Heat and Mass Transfer, 1991, 34, 59-67.	2.5	5
316	Generation of Inflow Conditions in a Reynolds-Averaged Navier-Stokes Closure. AIAA Journal, 2000, 38, 545-547.	1.5	5
317	Spatial features of the wall-normal structures in a turbulent boundary layer. Journal of Turbulence, 2011, 12, N46.	0.5	5
318	Acoustofluidic separation of tardigrades from raw cultures for sample preparation. Zoological Journal of the Linnean Society, 0, , .	1.0	5
319	Tensorial time scale in turbulent gradient transport of Reynolds stresses. Physics of Fluids, 2005, 17, 071701.	1.6	4
320	Effects of local blowing from a slot on a laminar boundary layer. Fluid Dynamics Research, 2006, 38, 539-549.	0.6	4
321	Multi-resolution analysis of the large-scale coherent structure in a turbulent separation bubble affected by an unsteady wake. Journal of Fluids and Structures, 2007, 23, 85-100.	1.5	4
322	Effect of an Exit-Wedge Angle on Pinch-off and Mass Entrainment of Vortex Rings in Air. Flow, Turbulence and Combustion, 2009, 82, 391-406.	1.4	4
323	Behavior of Double Emulsions in a Cross-Type Optical Separation System. Langmuir, 2012, 28, 7343-7349.	1.6	4
324	Tomo-PIV measurement of flow around an arbitrarily moving body with surface reconstruction. Experiments in Fluids, 2015, 56, 1.	1.1	4

#	ARTICLE	IF	CITATIONS
325	High-performance simulations of turbulent boundary layer flow using Intel Xeon Phi many-core processors. <i>Journal of Supercomputing</i> , 2021, 77, 9597-9614.	2.4	4
326	Wall-attached structures over a traveling wavy boundary: Scalar transport. <i>Physics of Fluids</i> , 2021, 33, 105115.	1.6	4
327	Discrete Vortex Simulation of Pulsating Flow Behind a Normal Plate. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1994, 116, 862-869.	0.8	3
328	Vortex simulation of leading-edge separation bubble with local forcing. <i>Fluid Dynamics Research</i> , 1996, 18, 99-115.	0.6	3
329	Large-eddy simulation of turbulent flow inside a sudden-expansion cylindrical chamber. <i>Journal of Turbulence</i> , 2002, 3, N4.	0.5	3
330	A new flow controller for medical injection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2004, 36, 67-72.	2.5	3
331	Accuracy of correlation-based image registration for pressure-sensitive paint. <i>Experiments in Fluids</i> , 2005, 39, 630-635.	1.1	3
332	Correlation-Based Image Registration for Applications Using Pressure-Sensitive Paint. <i>AIAA Journal</i> , 2005, 43, 472-478.	1.5	3
333	Large-eddy simulation of turbulent mixed convection in a vertical annulus with a rotating inner cylinder. <i>Journal of Turbulence</i> , 2007, 8, N5.	0.5	3
334	Feedback control of a circular cylinder wake with rotational oscillation. <i>Fluid Dynamics Research</i> , 2009, 41, 011403.	0.6	3
335	Effects of inflow pulsation on a turbulent coaxial jet. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 351-367.	1.1	3
336	Optical force on a pair of concentric spheres in a focused laser beam: ray-optics regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2531.	0.9	3
337	Simulation of flow-€flexible body interactions with large-€deformation. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 1089-1102.	0.9	3
338	Lateral migration of a microdroplet under optical forces in a uniform flow. <i>Physics of Fluids</i> , 2014, 26, 122001.	1.6	3
339	Effect of a shielded slot on a planar solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12913-12923.	3.8	3
340	Seriate microfluidic droplet coalescence under optical forces in a channel flow. <i>International Journal of Heat and Fluid Flow</i> , 2015, 56, 324-334.	1.1	3
341	Cross-type optical separation of elastic oblate capsules in a uniform flow. <i>Journal of Applied Physics</i> , 2015, 117, 034701.	1.1	3
342	Design of the Solenoid Valve of an Antilock Braking System With Reduced Flow Noise. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	3

#	ARTICLE	IF	CITATIONS
343	Hydrodynamic benefits of protruding eyes and mouth in a self-propelled flexible stingray. <i>Physics of Fluids</i> , 2021, 33, .	1.6	3
344	Hydrodynamic benefit of impulsive bursting in a self-propelled flexible plate. <i>Physics of Fluids</i> , 2021, 33, .	1.6	3
345	Identification and Control of Taylor-Görtler Vortices in Turbulent Curved Channel Flow. <i>AIAA Journal</i> , 2003, 41, 2387-2393.	1.5	2
346	Breakdown of similarity between momentum and energy transfer in a stagnation-region with free-stream turbulence. <i>Progress in Computational Fluid Dynamics</i> , 2006, 6, 21.	0.1	2
347	Effect of carrier gas temperature on pentacene thin film formation by organic vapor-jet printing techniques. <i>Thermochimica Acta</i> , 2012, 542, 74-79.	1.2	2
348	Optofluidic debubbling via a negative optical gradient force. <i>Applied Physics Letters</i> , 2014, 105, 071908.	1.5	2
349	Flow structure and flow-induced noise in an axisymmetric cavity with lids. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 3229-3241.	0.7	2
350	The isothermal-fluidic field of a secondary moderator jet in a $\frac{1}{4}$ scale CANDU-6 reactor model. <i>Nuclear Engineering and Design</i> , 2017, 323, 394-406.	0.8	2
351	The turbulent/non-turbulent interface in an adverse pressure gradient turbulent boundary layer. <i>International Journal of Heat and Fluid Flow</i> , 2020, 86, 108704.	1.1	2
352	Initial relaxation of spatially evolving turbulent channel flow with blowing and suction. <i>AIAA Journal</i> , 2001, 39, 2091-2099.	1.5	2
353	A microfluidic platform with castellated electrodes to separate cancer cells from blood cells. , 2020, , .		2
354	Spatial simulation of nonlinear instability in plane channel flow. , 0, , .		1
355	Large-scale structure of a leading-edge separation bubble with local forcing. <i>Fluid Dynamics Research</i> , 1997, 19, 363-378.	0.6	1
356	Non-Newtonian effect on ink transfer for gravureoffset printing. , 2009, , .		1
357	Optical Forces on Non-Spherical Nanoparticles Trapped by Optical Waveguides. <i>International Journal of Optomechatronics</i> , 2011, 5, 217-233.	3.3	1
358	Simulation of an ac electro-osmotic pump with step microelectrodes. <i>Physical Review E</i> , 2011, 83, 056302.	0.8	1
359	Optical Trapping Forces on Non-Spherical Particles in Fluid Flows. <i>International Journal of Optomechatronics</i> , 2012, 6, 146-162.	3.3	1
360	Migration of Elastic Capsules by an Optical Force in a Uniform flow. <i>Procedia IUTAM</i> , 2015, 16, 50-59.	1.2	1

#	ARTICLE	IF	CITATIONS
361	Direct Numerical Simulation and PIV Measurement of Turbulent Boundary Layer over a Rod-Roughened Wall. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 1-11.	0.1	1
362	Acoustofluidic Stimulation of Functional Immune Cells in a Microreactor (Adv. Sci. 16/2022). Advanced Science, 2022, 9, .	5.6	1
363	Wall-attached structures in a drag-reduced turbulent channel flow. Journal of Fluid Mechanics, 2022, 943, .	1.4	1
364	Convergence of Galerkin solutions using Karhunen-Loève expansions of inhomogeneous λ -turbulence. Physics of Fluids A, Fluid Dynamics, 1991, 3, 1695-1697.	1.6	0
365	5th International Symposium on Particle Image Velocimetry, PIV'03. Measurement Science and Technology, 2004, 15, .	1.4	0
366	Migration of an Elastic Capsule in a Channel Flow. , 2011, , .		0
367	Performance of sub-cooled PEMFCs. International Journal of Energy Research, 2011, 35, 365-375.	2.2	0
368	Nanowires: Rapid, One-Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth (Adv. Funct. Mater. 26/2013). Advanced Functional Materials, 2013, 23, 3315-3315.	7.8	0
369	Simulation of Valveless Pump Using Pumping Chamber Connected to Elastic Tube. Transactions of the Korean Society of Mechanical Engineers, B, 2013, 37, 111-117.	0.0	0
370	Logarithmic Behavior of Wall-Attached Structures in Wall-Bounded Turbulent Flows. Springer Proceedings in Physics, 2019, , 55-61.	0.1	0
371	10.1063/1.5126147.1. , 2019, , .		0
372	Multi-resolution Analysis of the Large-scale Coherent Structure in a Turbulent Separation Bubble Affected by Unsteady Wake. , 2007, , 113-116.		0
373	Effects of aspect ratio on the hydrodynamics of a self-propelled flexible plate near the ground. Physics of Fluids, 2022, 34, 021908.	1.6	0