

Hyung Jin Sung

List of Publications by Year in descending order

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373
papers

13,700
citations

22099

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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-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

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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

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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 $\hat{\nu}^2$ 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

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

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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

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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

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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

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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

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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

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