Hyung Jin Sung

List of Publications by Year
in descending order

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373	13,700	22132	36008
papers	citations	59 h-index	97 g-index

382	382	382	10532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrodynamic benefits of pectoral fins in a self-propelled flexible plate. Physics of Fluids, 2022, 34, .	1.6	9
2	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
3	Scaling of rough-wall turbulence in a transitionally rough regime. Physics of Fluids, 2022, 34, .	1.6	6
4	Acoustofluidic Stimulation of Functional Immune Cells in a Microreactor. Advanced Science, 2022, 9, e2105809.	5.6	6
5	Drag reduction by a rotationally oscillating cylinder with a flexible filament. Physics of Fluids, 2022, 34, .	1.6	9
6	Acoustofluidic Stimulation of Functional Immune Cells in a Microreactor (Adv. Sci. 16/2022). Advanced Science, 2022, 9, .	5.6	1
7	Wall-attached structures in a drag-reduced turbulent channel flow. Journal of Fluid Mechanics, 2022, 943, .	1.4	1
8	Antibiotic susceptibility test under a linear concentration gradient using travelling surface acoustic waves. Lab on A Chip, 2021, 21, 3449-3457.	3.1	9
9	Depletion of lubricant impregnated in a cavity of lubricant-infused surface. Physics of Fluids, 2021, 33, .	1.6	11
10	High-performance simulations of turbulent boundary layer flow using Intel Xeon Phi many-core processors. Journal of Supercomputing, 2021, 77, 9597-9614.	2.4	4
11	Wall-attached structures over a traveling wavy boundary: Turbulent velocity fluctuations. Physical Review Fluids, 2021, 6, .	1.0	12
12	A self-propelled flexible plate with a keel-like structure. Physics of Fluids, 2021, 33, .	1.6	8
13	Acoustofluidic Separation of Proteins Using Aptamer-Functionalized Microparticles. Analytical Chemistry, 2021, 93, 8309-8317.	3.2	18
14	Hydrodynamic benefit of cephalic fins in a self-propelled flexible manta ray. Physics of Fluids, 2021, 33, .	1.6	6
15	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. Nature Communications, 2021, 12, 5008.	5.8	83
16	Hydrodynamic benefits of protruding eyes and mouth in a self-propelled flexible stingray. Physics of Fluids, 2021, 33, .	1.6	3
17	Wall-attached structures over a traveling wavy boundary: Scalar transport. Physics of Fluids, 2021, 33, 105115.	1.6	4
18	Hydrodynamic benefit of impulsive bursting in a self-propelled flexible plate. Physics of Fluids, 2021, 33, .	1.6	3

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19	Manipulation of cancer cells in a sessile dropletviatravelling surface acoustic waves. Lab on A Chip, 2021, 22, 47-56.	3.1	10
20	Drag reduction by a flexible afterbody. Physics of Fluids, 2021, 33, .	1.6	8
21	Control of solutal Marangoni-driven vortical flows and enhancement of mixing efficiency. Journal of Colloid and Interface Science, 2020, 561, 408-415.	5.0	31
22	Wall-attached structures of streamwise velocity fluctuations in an adverse-pressure-gradient turbulent boundary layer. Journal of Fluid Mechanics, 2020, 885, .	1.4	33
23	Statistical behaviour of self-similar structures in canonical wall turbulence. Journal of Fluid Mechanics, 2020, 905, .	1.4	15
24	Acoustofluidic generation of droplets with tunable chemical concentrations. Lab on A Chip, 2020, 20, 3922-3929.	3.1	27
25	Flapping dynamics of vertically clamped three-dimensional flexible flags in a Poiseuille flow. Physics of Fluids, 2020, 32, .	1.6	20
26	Specialization of tuna: A numerical study on the function of caudal keels. Physics of Fluids, 2020, 32, .	1.6	22
27	Scaling of rough-wall turbulence by the roughness height and steepness. Journal of Fluid Mechanics, 2020, 900, .	1.4	24
28	The turbulent/non-turbulent interface in an adverse pressure gradient turbulent boundary layer. International Journal of Heat and Fluid Flow, 2020, 86, 108704.	1.1	2
29	Heat transfer enhancement in a poiseuille channel flow by using multiple wall-mounted flexible flags. International Journal of Heat and Mass Transfer, 2020, 163, 120447.	2.5	18
30	A lubricant-infused slip surface for drag reduction. Physics of Fluids, 2020, 32, .	1.6	31
31	Vertically clamped flexible flags in a Poiseuille flow. Physics of Fluids, 2020, 32, .	1.6	13
32	The reduction of noise induced by flow over an open cavity. International Journal of Heat and Fluid Flow, 2020, 82, 108560.	1.1	6
33	A self-propelled flexible plate with a Navier slip surface. Physics of Fluids, 2020, 32, 021906.	1.6	8
34	Phase-mediated locomotion of two self-propelled flexible plates in a tandem arrangement. Physics of Fluids, 2020, 32, .	1.6	18
35	A microfluidic platform with castellated electrodes to separate cancer cells from blood cells. , 2020, , .		2
36	Spaceâ€“time formation of very-large-scale motions in turbulent pipe flow. Journal of Fluid Mechanics, 2019, 881, 1010-1047.	1.4	22

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37	The Scale Characteristics and Formation Mechanism of Aeolian Sand Streamers Based on Large Eddy Simulation. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11372-11388.	1.2	23
38	Intermittent locomotion of a self-propelled plate. Physics of Fluids, 2019, 31, 111902.	1.6	14
39	Flapping dynamics of a flexible plate with Navier slip. Physics of Fluids, 2019, 31, .	1.6	21
40	Hydrodynamics of a three-dimensional self-propelled flexible plate. Physics of Fluids, 2019, 31, .	1.6	32
41	Investigation of DPD transport properties in modeling bioparticle motion under the effect of external forces: Low Reynolds number and high Schmidt scenarios. Journal of Chemical Physics, 2019, 150, 054901.	1.2	9
42	Surface acoustic wave-based micromixing enhancement using a single interdigital transducer. Applied Physics Letters, 2019, 114, .	1.5	43
43	Azimuthal organization of large-scale motions in a turbulent minimal pipe flow. Physics of Fluids, 2019, 31, 055113.	1.6	10
44	Wall-attached clusters for the logarithmic velocity law in turbulent pipe flow. Physics of Fluids, 2019, 31, .	1.6	33
45	Microparticle self-assembly induced by travelling surface acoustic waves. RSC Advances, 2019, 9, 7916-7921.	1.7	28
46	Design of the centrifugal fan of a belt-driven starter generator with reduced flow noise. International Journal of Heat and Fluid Flow, 2019, 76, 72-84.	1.1	10
47	Effects of the shape of an inverted flag on its flapping dynamics. Physics of Fluids, 2019, 31, .	1.6	34
48	Undulatory topographical waves for flow-induced foulant sweeping. Science Advances, 2019, 5, eaax8935.	4.7	17
49	Influence of wall-attached structures on the boundary of the quiescent core region in turbulent pipe flow. Physical Review Fluids, 2019, 4, .	1.0	9
50	Logarithmic Behavior of Wall-Attached Structures in Wall-Bounded Turbulent Flows. Springer Proceedings in Physics, 2019, , 55-61.	0.1	0
51	10.1063/1.5126147.1. , 2019, , .		0
52	Characterization of microchannel anechoic corners formed by surface acoustic waves. Applied Physics Letters, 2018, 112, .	1.5	9
53	Flapping dynamics of inverted flags in a side-by-side arrangement. International Journal of Heat and Fluid Flow, 2018, 70, 131-140.	1.1	27
54	Schooling behavior of rigid and flexible heaving airfoils. International Journal of Heat and Fluid Flow, 2018, 69, 224-233.	1.1	10

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55	Microfluidic flow switching via localized acoustic streaming controlled by surface acoustic waves. RSC Advances, 2018, 8, 3206-3212.	1.7	13
56	Hydrodynamics of flexible fins propelled in tandem, diagonal, triangular and diamond configurations. Journal of Fluid Mechanics, 2018, 840, 154-189.	1.4	70
57	Vertical Hydrodynamic Focusing and Continuous Acoustofluidic Separation of Particles via Upward Migration. Advanced Science, 2018, 5, 1700285.	5.6	37
58	Hydrodynamics of a self-propelled flexible fin in perturbed flows. Mechanical Engineering Reviews, 2018, 5, 17-00286-17-00286.	4.7	9
59	Heat transfer enhancement by asymmetrically clamped flexible flags in a channel flow. International Journal of Heat and Mass Transfer, 2018, 116, 1003-1015.	2.5	45
60	Design of the Solenoid Valve of an Antilock Braking System With Reduced Flow Noise. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	3
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	Wall-attached structures of velocity fluctuations in a turbulent boundary layer. Journal of Fluid Mechanics, 2018, 856, 958-983.	1.4	85
63	Spontaneous Additive Nanopatterning from Solution Route Using Selective Wetting. ACS Applied Materials & Interfaces, 2018, 10, 26501-26509.	4.0	9
64	In-droplet microparticle washing and enrichment using surface acoustic wave-driven acoustic radiation force. Lab on A Chip, 2018, 18, 2936-2945.	3.1	43
65	Contribution of large-scale motions to the skin friction in a moderate adverse pressure gradient turbulent boundary layer. Journal of Fluid Mechanics, 2018, 848, 288-311.	1.4	26
66	Influence of backflow on skin friction in turbulent pipe flow. Physics of Fluids, 2018, 30, .	1.6	15
67	Sheathless Focusing and Separation of Microparticles Using Tilted-Angle Traveling Surface Acoustic Waves. Analytical Chemistry, 2018, 90, 8546-8552.	3.2	48
68	On-Demand Droplet Capture and Release Using Microwell-Assisted Surface Acoustic Waves. Analytical Chemistry, 2017, 89, 2211-2215.	3.2	38
69	Acoustothermal tweezer for droplet sorting in a disposable microfluidic chip. Lab on A Chip, 2017, 17, 1031-1040.	3.1	50
70	The isothermal-fluidic field of a secondary moderator jet in a Â¼ scale CANDU-6 reactor model. Nuclear Engineering and Design, 2017, 323, 394-406.	0.8	2
71	Signature of large-scale motions on turbulent/non-turbulent interface in boundaryÂlayers. Journal of Fluid Mechanics, 2017, 819, 165-187.	1.4	61
72	Heat transfer enhancement by flexible flags clamped vertically in a Poiseuille channel flow. International Journal of Heat and Mass Transfer, 2017, 107, 391-402.	2.5	41

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73	Influence of a large-eddy breakup device on the frictional drag in a turbulent boundary layer. Physics of Fluids, 2017, 29, .	1.6	22
74	Deterministic bead-in-droplet ejection utilizing an integrated plug-in bead dispenser for single beadâ€“based applications. Scientific Reports, 2017, 7, 46260.	1.6	10
75	Acoustic impedance-based manipulation of elastic microspheres using travelling surface acoustic waves. RSC Advances, 2017, 7, 22524-22530.	1.7	39
76	Hydrodynamics of a self-propelled flexible fin near the ground. Physics of Fluids, 2017, 29, .	1.6	42
77	Turbulent structures in an optimal Taylorâ€“Couette flow between concentric counter-rotating cylinders. Journal of Turbulence, 2017, 18, 480-496.	0.5	7
78	Simulation of fluid-flexible body interaction with heat transfer. International Journal of Heat and Mass Transfer, 2017, 110, 20-33.	2.5	19
79	Cavitation instabilities of an inducer in a cryogenic pump. Acta Astronautica, 2017, 132, 19-24.	1.7	27
80	Highly Stretchable, Hysteresis-Free Ionic Liquid-Based Strain Sensor for Precise Human Motion Monitoring. ACS Applied Materials & Interfaces, 2017, 9, 1770-1780.	4.0	331
81	Streak instability in turbulent channel flow: the seeding mechanism of large-scale motions. Journal of Fluid Mechanics, 2017, 832, 483-513.	1.4	37
82	An autonomous flexible propulsor in a quiescent flow. International Journal of Heat and Fluid Flow, 2017, 68, 151-157.	1.1	9
83	Influence of large-scale motions on the frictional drag in a turbulent boundary layer. Journal of Fluid Mechanics, 2017, 829, 751-779.	1.4	41
84	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. American Journal of Cardiology, 2017, 120, 1920-1925.	0.7	16
85	Temperature-Controlled Direct Imprinting of Ag Ionic Ink: Flexible Metal Grid Transparent Conductors with Enhanced Electromechanical Durability. Scientific Reports, 2017, 7, 11220.	1.6	16
86	Turbulent boundary layer over a divergent convergent superhydrophobic surface. Physics of Fluids, 2017, 29, 085112.	1.6	7
87	Acoustic Wave-Driven Functionalized Particles for Aptamer-Based Target Biomolecule Separation. Analytical Chemistry, 2017, 89, 13313-13319.	3.2	32
88	A Pumpless Acoustofluidic Platform for Size-Selective Concentration and Separation of Microparticles. Analytical Chemistry, 2017, 89, 13575-13581.	3.2	28
89	Contribution of large-scale motions to the Reynolds shear stress in turbulent pipe flows. International Journal of Heat and Fluid Flow, 2017, 66, 209-216.	1.1	13
90	Cavitation Instabilities During the Development Testing of a Liquid Oxygen Pump. Journal of Propulsion and Power, 2017, 33, 187-192.	1.3	15

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91	Particle Separation inside a Sessile Droplet with Variable Contact Angle Using Surface Acoustic Waves. Analytical Chemistry, 2017, 89, 736-744.	3.2	54
92	In-droplet microparticle separation using travelling surface acoustic wave. Biomicrofluidics, 2017, 11, 064112.	1.2	26
93	Relationship between streamwise and azimuthal length scales in a turbulent pipe flow. Physics of Fluids, 2017, 29, 105112.	1.6	7
94	Self-propelled flexible fin in the wake of a circular cylinder. Physics of Fluids, 2016, 28, .	1.6	19
95	Contribution of velocity-vorticity correlations to the frictional drag in wall-bounded turbulent flows. Physics of Fluids, 2016, 28, .	1.6	48
96	Influence of large-scale accelerating motions on turbulent pipe and channel flows. Journal of Fluid Mechanics, 2016, 804, 420-441.	1.4	18
97	Lamb Wave-Based Acoustic Radiation Force-Driven Particle Ring Formation Inside a Sessile Droplet. Analytical Chemistry, 2016, 88, 3976-3981.	3.2	51
98	Large-scale motions in a turbulent channel flow with the slip boundary condition. International Journal of Heat and Fluid Flow, 2016, 61, 96-107.	1.1	21
99	Vortex interaction between two tandem flexible propulsors with a paddling-based locomotion. Journal of Fluid Mechanics, 2016, 793, 612-632.	1.4	12
100	Innerâ€“outer interactions of large-scale structures in turbulent channel flow. Journal of Fluid Mechanics, 2016, 790, 128-157.	1.4	79
101	Transfer of Microparticles across Laminar Streams from Non-Newtonian to Newtonian Fluid. Analytical Chemistry, 2016, 88, 4205-4210.	3.2	35
102	Spatiotemporally controllable acoustothermal heating and its application to disposable thermochromic displays. RSC Advances, 2016, 6, 33937-33944.	1.7	24
103	High-Performance, Solution-Processed, Embedded Multiscale Metallic Transparent Conductors. ACS Applied Materials & Interfaces, 2016, 8, 10937-10945.	4.0	21
104	High frequency travelling surface acoustic waves for microparticle separation. Journal of Mechanical Science and Technology, 2016, 30, 3945-3952.	0.7	17
105	Structural organization of the quiescent core region in a turbulent channel flow. International Journal of Heat and Fluid Flow, 2016, 62, 455-463.	1.1	8
106	On-demand droplet splitting using surface acoustic waves. Lab on A Chip, 2016, 16, 3235-3243.	3.1	90
107	Flow structure and flow-induced noise in an axisymmetric cavity with lids. Journal of Mechanical Science and Technology, 2016, 30, 3229-3241.	0.7	2
108	PIV measurements of the flow patterns in a CANDU-6 model. Annals of Nuclear Energy, 2016, 98, 1-11.	0.9	11

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109	Self-propelled heaving and pitching flexible fin in a quiescent flow. International Journal of Heat and Fluid Flow, 2016, 62, 273-281.	1.1	34
110	Flapping dynamics of a flexible propulsor near ground. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 991-1000.	1.5	18
111	Photosynthesis of cyanobacteria in a miniaturized optofluidic waveguide platform. RSC Advances, 2016, 6, 11081-11087.	1.7	6
112	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
113	Acoustofluidic particle manipulation inside a sessile droplet: four distinct regimes of particle concentration. Lab on A Chip, 2016, 16, 660-667.	3.1	131
114	Direct patterning of ZnO thin film transistor using physical vapor jet printing. Materials Letters, 2016, 163, 165-170.	1.3	7
115	Actively flapping tandem flexible flags in a viscous flow. Journal of Fluid Mechanics, 2015, 780, 120-142.	1.4	41
116	Travelling Surface Acoustic Waves Microfluidics. Physics Procedia, 2015, 70, 34-37.	1.2	39
117	Dynamic manipulation of particles via transformative optofluidic waveguides. Scientific Reports, 2015, 5, 15170.	1.6	6
118	Direct numerical simulation of a 30R long turbulent pipe flow at Re Ï„ = 3008. Physics of Fluids, 2015, 27, .	1.6	82
119	Migration of Elastic Capsules by an Optical Force in a Uniform flow. Procedia IUTAM, 2015, 16, 50-59.	1.2	1
120	Microchannel Anechoic Corner for Microparticle Manipulation via Travelling Surface Acoustic Waves. Physics Procedia, 2015, 70, 30-33.	1.2	7
121	Highly Conductive, Bendable, Embedded Ag Nanoparticle Wire Arrays Via Convective Selfâ€Assembly: Hybridization into Ag Nanowire Transparent Conductors. Advanced Functional Materials, 2015, 25, 3888-3898.	7.8	33
122	Effect of printing parameters on gravure patterning with conductive silver ink. Journal of Micromechanics and Microengineering, 2015, 25, 045004.	1.5	16
123	Comparison of large- and very-large-scale motions in turbulent pipe and channel flows. Physics of Fluids, 2015, 27, .	1.6	36
124	Integrated real-time optofluidic SERS via a liquid-core/liquid-cladding waveguide. RSC Advances, 2015, 5, 922-927.	1.7	13
125	In situ seriate droplet coalescence under an optical force. Microfluidics and Nanofluidics, 2015, 18, 1247-1254.	1.0	17
126	Flapping dynamics of an inverted flag in a uniform flow. Journal of Fluids and Structures, 2015, 57, 159-169.	1.5	101

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127	Acoustothermal heating of polydimethylsiloxane microfluidic system. Scientific Reports, 2015, 5, 11851.	1.6	73
128	Dynamics of prolate jellyfish with a jet-based locomotion. Journal of Fluids and Structures, 2015, 57, 331-343.	1.5	33
129	Turbulent boundary layers over sparsely-spaced rod-roughened walls. International Journal of Heat and Fluid Flow, 2015, 56, 16-27.	1.1	34
130	Recent advances in microfluidic actuation and micro-object manipulation via surface acoustic waves. Lab on A Chip, 2015, 15, 2722-2738.	3.1	278
131	Microchannel Anechoic Corner for Size-Selective Separation and Medium Exchange via Traveling Surface Acoustic Waves. Analytical Chemistry, 2015, 87, 4627-4632.	3.2	123
132	PIV measurements of flow around an arbitrarily moving free surface. Experiments in Fluids, 2015, 56, 1.	1.1	25
133	Tomo-PIV measurement of flow around an arbitrarily moving body with surface reconstruction. Experiments in Fluids, 2015, 56, 1.	1.1	4
134	Model for tracing the path of microparticles in continuous flow microfluidic devices for 2D focusing via standing acoustic waves. Separation and Purification Technology, 2015, 153, 99-107.	3.9	17
135	Generation of Dynamic Free-Form Temperature Gradients in a Disposable Microchip. Analytical Chemistry, 2015, 87, 11568-11574.	3.2	22
136	Seriate microfluidic droplet coalescence under optical forces in a channel flow. International Journal of Heat and Fluid Flow, 2015, 56, 324-334.	1.1	3
137	Cross-type optical separation of elastic oblate capsules in a uniform flow. Journal of Applied Physics, 2015, 117, 034701.	1.1	3
138	Inertial migration of a 3D elastic capsule in a plane Poiseuille flow. International Journal of Heat and Fluid Flow, 2015, 54, 87-96.	1.1	14
139	Photoinduced synthesis of Ag nanoparticles on ZnO nanowires for real-time SERS systems. RSC Advances, 2015, 5, 51-57.	1.7	17
140	Lateral migration of a microdroplet under optical forces in a uniform flow. Physics of Fluids, 2014, 26, 122001.	1.6	3
141	Optofluidic debubbling via a negative optical gradient force. Applied Physics Letters, 2014, 105, 071908.	1.5	2
142	Adjustable, rapidly switching microfluidic gradient generation using focused travelling surface acoustic waves. Applied Physics Letters, 2014, 104, 023506.	1.5	88
143	A dye-sensitized solar cell based on a boron-doped ZnO (BZO) film with double light-scattering-layers structured photoanode. Journal of Materials Chemistry A, 2014, 2, 5408.	5.2	36
144	Spatial organization of large-Âand very-large-scale motions in a turbulent channel flow. Journal of Fluid Mechanics, 2014, 749, 818-840.	1.4	90

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145	Turbulent thermal boundary layers with temperature-dependent viscosity. International Journal of Heat and Fluid Flow, 2014, 49, 43-52.	1.1	15
146	Three-dimensional hydrodynamic flow and particle focusing using four vortices Dean flow. Microfluidics and Nanofluidics, 2014, 17, 647-655.	1.0	17
147	Optical separation of droplets on a microfluidic platform. Microfluidics and Nanofluidics, 2014, 16, 635-644.	1.0	35
148	Continuous synthesis of zinc oxide nanoparticles in a microfluidic system for photovoltaic application. Nanoscale, 2014, 6, 2840.	2.8	36
149	Simulation of swimming oblate jellyfish with a paddling-based locomotion. Journal of Fluid Mechanics, 2014, 748, 731-755.	1.4	39
150	Tomographic PIV measurements of flow patterns in a nasal cavity with geometry acquisition. Experiments in Fluids, 2014, 55, 1.	1.1	13
151	Controllable Ag nanostructure patterning in a microfluidic channel for real-time SERS systems. Nanoscale, 2014, 6, 2895.	2.8	47
152	Optical separation of ellipsoidal particles in a uniform flow. Physics of Fluids, 2014, 26, 062001.	1.6	10
153	Effect of a shielded slot on a planar solid oxide fuel cell. International Journal of Hydrogen Energy, 2014, 39, 12913-12923.	3.8	3
154	Submicron separation of microspheres via travelling surface acoustic waves. Lab on A Chip, 2014, 14, 4665-4672.	3.1	118
155	Flapping dynamics of a flexible flag in a uniform flow. Fluid Dynamics Research, 2014, 46, 055517.	0.6	13
156	Flexible supercapacitor fabrication by room temperature rapid laser processing of roll-to-roll printed metal nanoparticle ink for wearable electronics application. Journal of Power Sources, 2014, 246, 562-568.	4.0	134
157	Breakup behavior of a molten metal jet. International Journal of Heat and Fluid Flow, 2014, 50, 27-37.	1.1	10
158	Permeability of microscale fibrous porous media using the lattice Boltzmann method. International Journal of Heat and Fluid Flow, 2013, 44, 435-443.	1.1	40
159	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
160	Rapid, Oneâ€Step, Digital Selective Growth of ZnO Nanowires on 3D Structures Using Laser Induced Hydrothermal Growth. Advanced Functional Materials, 2013, 23, 3316-3323.	7.8	95
161	Comparison of very-large-scale motions of turbulent pipe and boundary layer simulations. Physics of Fluids, 2013, 25, .	1.6	69
162	Continuous separation of particles in a PDMS microfluidic channel via travelling surface acoustic waves (TSAW). Lab on A Chip, 2013, 13, 4210.	3.1	172

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163	Digital selective growth of a ZnO nanowire array by large scale laser decomposition of zinc acetate. Nanoscale, 2013, 5, 3698.	2.8	45
164	Spatiotemporal representation of the dynamic modes in turbulent cavity flows. International Journal of Heat and Fluid Flow, 2013, 44, 1-13.	1.1	16
165	Multiphysics Analysis of a Linear Control Solenoid Valve. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	0.8	20
166	Interaction modes of multiple flexible flags in a uniform flow. Journal of Fluid Mechanics, 2013, 729, 563-583.	1.4	50
167	Effect of wall heating on turbulent boundary layers with temperature-dependent viscosity. Journal of Fluid Mechanics, 2013, 726, 196-225.	1.4	104
168	Direct numerical simulations of fully developed turbulent pipe flows for ReÏ„=180, 544 and 934. International Journal of Heat and Fluid Flow, 2013, 44, 222-228.	1.1	33
169	Vacuum-assisted microcontact printing (Î¼CP) for aligned patterning of nano and biochemical materials. Journal of Materials Chemistry C, 2013, 1, 268-274.	2.7	18
170	An atmospheric pressure-based electrospraying route to fabricate the multi-applications bilayer (AZO/ITO) TCO films. RSC Advances, 2013, 3, 25741.	1.7	12
171	A dual-functional double-layer film with indium-doped ZnO nanosheets/nanoparticles structured photoanodes for dye-sensitized solar cells. RSC Advances, 2013, 3, 25136.	1.7	23
172	Performance of H-shaped membraneless micro fuel cells. Journal of Power Sources, 2013, 226, 266-271.	4.0	28
173	Annealing-free, flexible silver nanowireâ€“polymer composite electrodes via a continuous two-step spray-coating method. Nanoscale, 2013, 5, 977-983.	2.8	308
174	Statistics of the turbulent boundary layers over 3D cube-roughened walls. International Journal of Heat and Fluid Flow, 2013, 44, 394-402.	1.1	14
175	Optical mobility of blood cells for label-free cell separation applications. Applied Physics Letters, 2013, 102, .	1.5	20
176	Hydrothermally Grown Upright-Standing Nanoporous Nanosheets of Iodine-Doped ZnO (ZnO:I) Nanocrystallites for a High-Efficiency Dye-Sensitized Solar Cell. ACS Applied Materials & Interfaces, 2013, 5, 3075-3084.	4.0	34
177	Fabrication of Tantalum and Nitrogen Codoped ZnO (Ta, N-ZnO) Thin Films Using the Electrospay: Twin Applications as an Excellent Transparent Electrode and a Field Emitter. ACS Applied Materials & Interfaces, 2013, 5, 3722-3730.	4.0	12
178	Refractive-index-based optofluidic particle manipulation. Applied Physics Letters, 2013, 103, .	1.5	6
179	Pattern analysis of aligned nanowires in a microchannel. Measurement Science and Technology, 2013, 24, 035303.	1.4	7
180	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

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181	Characterization of a Microscale Cascade Impactor. Aerosol Science and Technology, 2012, 46, 966-972.	1.5	17
182	Radiation forces on a microsphere in an arbitrary refractive index profile. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 407.	0.9	9
183	Optical levitation of a non-spherical particle in a loosely focused Gaussian beam. Optics Express, 2012, 20, 24068.	1.7	17
184	Optical force on a pair of concentric spheres in a focused laser beam: ray-optics regime. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2531.	0.9	3
185	Optical Trapping Forces on Non-Spherical Particles in Fluid Flows. International Journal of Optomechatronics, 2012, 6, 146-162.	3.3	1
186	Turbulent boundary layers over rod- and cube-roughened walls. Journal of Turbulence, 2012, 13, N40.	0.5	23
187	Direct numerical simulations of turbulent flow in a conical diffuser. Journal of Turbulence, 2012, 13, N30.	0.5	9
188	Flexible ring flapping in a uniform flow. Journal of Fluid Mechanics, 2012, 707, 129-149.	1.4	12
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