

Sang Joon Lee

List of Publications by Year in descending order

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338
papers

7,113
citations

61984

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133252

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340
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoresponsive Al ³⁺ -crosslinked poly(N-isopropylacrylamide)/alginate composite for green recovery of lithium from Li-spiked seawater. <i>Green Energy and Environment</i> , 2022, 7, 334-344.	8.7	9
2	Ultrasound deep learning for monitoring of flowâ€“vessel dynamics in murine carotid artery. <i>Ultrasonics</i> , 2022, 120, 106636.	3.9	16
3	Rapid and selective adsorption of Li ⁺ from concentrated seawater using repulsive force of Al ³⁺ -crosslinked alginate composite incorporated with hydrogen manganese oxide. <i>Hydrometallurgy</i> , 2022, 208, 105812.	4.3	5
4	Double-insulated porous PDMS sponge for heat-localized solar evaporative seawater desalination. <i>Desalination</i> , 2022, 526, 115540.	8.2	18
5	Bioinspired Fatty Acid Amideâ€“Based Slippery Oleogels for Shearâ€“Stable Lubrication. <i>Advanced Science</i> , 2022, 9, e2105528.	11.2	12
6	Solar distillation meets the real world: a review of solar stills purifying real wastewater and seawater. <i>Environmental Science and Pollution Research</i> , 2022, 29, 22860-22884.	5.3	15
7	Spectrochemical analysis of slippery loach skin and kelp using FTIR imaging. <i>Vibrational Spectroscopy</i> , 2022, 118, 103338.	2.2	3
8	A review on carbonized natural green flora for solar desalination. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112121.	16.4	40
9	Water transport in polymer electrolyte membrane fuel cell: Degradation effect of gas diffusion layer. <i>International Journal of Energy Research</i> , 2022, 46, 9058-9070.	4.5	11
10	Effective Icephobicity of Silicone Oil-Infused Oleamideâ€“Polydimethylsiloxane with Enhanced Lubrication Lifetime. <i>ACS Omega</i> , 2022, 7, 21156-21162.	3.5	2
11	Developmental toxicity triggered by benzyl alcohol in the early stage of zebrafish embryos: Cardiovascular defects with inhibited liver formation and degenerated neurogenesis. <i>Science of the Total Environment</i> , 2021, 752, 141631.	8.0	10
12	Three-dimensional volumetric monitoring of settling particulate matters on a leaf using digital in-line holographic microscopy. <i>Journal of Hazardous Materials</i> , 2021, 404, 124116.	12.4	8
13	Adsorptive seawater desalination using MOF-incorporated Cu-alginate/PVA beads: Ion removal efficiency and durability. <i>Chemosphere</i> , 2021, 268, 128797.	8.2	18
14	Accurate real-time monitoring of high particulate matter concentration based on holographic speckles and deep learning. <i>Journal of Hazardous Materials</i> , 2021, 409, 124637.	12.4	11
15	Fluid-dynamic effect of pannus formation around the prosthetic heart valve: in vitro demonstration using a heart-mimic pulsatile pump and particle image velocimetry. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 209-220.	1.5	0
16	Enhanced air stability of superhydrophobic surfaces with flexible overhangs of re-entrant structures. <i>Physics of Fluids</i> , 2021, 33, .	4.0	16
17	Depletion of lubricant impregnated in a cavity of lubricant-infused surface. <i>Physics of Fluids</i> , 2021, 33, .	4.0	11
18	Pristine graphene and graphene oxide induce multi-organ defects in zebrafish (Danio rerio) larvae/juvenile: an in vivo study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34664-34675.	5.3	18

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19	Simultaneous solar-driven seawater desalination and spontaneous power generation using polyvalent crosslinked polypyrrole/alginate hydrogels. <i>Desalination</i> , 2021, 500, 114900.	8.2	45
20	Domino-like water transport on <i>Tillandsia</i> through flexible trichome wings. <i>New Phytologist</i> , 2021, 231, 1906-1922.	7.3	11
21	Solar Evaporation-Based Energy Harvesting Using a Leaf-Inspired Energy-Harvesting Foam. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5027-5037.	6.7	33
22	Air spread through a wetted deformable membrane: Implications for the mechanism of soft valves in plants. <i>Physical Review E</i> , 2021, 103, 062407.	2.1	5
23	Adsorption of nanoparticles suspended in a drop on a leaf surface of <i>Perilla frutescens</i> and their infiltration through stomatal pathway. <i>Scientific Reports</i> , 2021, 11, 11556.	3.3	24
24	Developmental toxicity induced by particulate matter (PM2.5) in zebrafish (<i>Danio rerio</i>) model. <i>Aquatic Toxicology</i> , 2021, 238, 105928.	4.0	14
25	Multifunctional biopolymer coatings inspired by loach skin. <i>Progress in Organic Coatings</i> , 2021, 158, 106383.	3.9	6
26	Volumetric monitoring of airborne particulate matter concentration using smartphone-based digital holographic microscopy and deep learning. <i>Journal of Hazardous Materials</i> , 2021, 418, 126351.	12.4	12
27	Effectual removal of indoor ultrafine PM using submicron water droplets. <i>Journal of Environmental Management</i> , 2021, 296, 113166.	7.8	4
28	Eco-friendly erucamide-polydimethylsiloxane coatings for marine anti-biofouling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112003.	5.0	18
29	Enhanced air stability of ridged superhydrophobic surface with nanostructure. <i>AIP Advances</i> , 2021, 11, .	1.3	4
30	Foliar Uptake of the Potentially Toxic Elements in Garlic Chive Leaves. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	2
31	Effects of solar geometry and operation period on stability of solar desalination systems: a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 65014-65032.	5.3	8
32	Shear-driven drainage of lubricant in a spherical cavity of lubricant-infused surface. <i>Physics of Fluids</i> , 2021, 33, .	4.0	5
33	Morphological features of mucous secretory organ and mucous secretion of loach <i>Misgurnus anguillicaudatus</i> skin for friction drag reduction. <i>Journal of Fish Biology</i> , 2020, 96, 83-91.	1.6	21
34	Investigation of water transport around the root for a plant using X-ray imaging technique. Measurement: <i>Journal of the International Measurement Confederation</i> , 2020, 151, 107159.	5.0	4
35	Deep Learning-Based Super-resolution Ultrasound Speckle Tracking Velocimetry. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 598-609.	1.5	17
36	Flow induced stress on vulnerable stenosis in tandem stenosed vessels. <i>Physics of Fluids</i> , 2020, 32, 101904.	4.0	3

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37	Effect of water microdroplet size on the removal of indoor particulate matter. Building and Environment, 2020, 181, 107097.	6.9	7
38	A lubricant-infused slip surface for drag reduction. Physics of Fluids, 2020, 32, .	4.0	31
39	Anti-Biofouling Features of Eco-Friendly Oleamide‐PDMS Copolymers. ACS Omega, 2020, 5, 11515-11521.	3.5	17
40	Ultrasound Deep Learning for Wall Segmentation and Near-Wall Blood Flow Measurement. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2022-2032.	3.0	9
41	Deep learning-based hologram generation using a white light source. Scientific Reports, 2020, 10, 8977.	3.3	17
42	Seawater Desalination Using MOF-Incorporated Cu-Based Alginate Beads without Energy Consumption. ACS Applied Materials & Interfaces, 2020, 12, 16319-16326.	8.0	48
43	Efficient removal of indoor particulate matter using water microdroplets generated by a MHz-frequency ultrasonic atomizer. Building and Environment, 2020, 175, 106797.	6.9	21
44	Nano/Micro Natural Patterns of Hydrogels against Water Loss. ACS Applied Bio Materials, 2020, 3, 1293-1304.	4.6	2
45	Adaptive hybrid flow measurement of color Doppler and speckle image velocimetry. Ultrasonics, 2020, 104, 106093.	3.9	2
46	Effect of trichome structure of Tillandsia usneoides on deposition of particulate matter under flow conditions. Journal of Hazardous Materials, 2020, 393, 122401.	12.4	17
47	Herbul black henna (hair dye) causes cardiovascular defects in zebrafish (Danio rerio) embryo model. Environmental Science and Pollution Research, 2020, 27, 14150-14159.	5.3	15
48	Wind tunnel tests on drag reduction of heavy vehicles using sinusoidal boat tails. Journal of Mechanical Science and Technology, 2020, 34, 201-208.	1.5	6
49	Effects of surface morphological structure of a brown alga miyeok (<i>Undaria pinnatifida</i>) on sustainable drag reduction. AIP Advances, 2020, 10, .	1.3	11
50	Flow induced deformation of vulnerable stenosis under pulsatile flow condition. Physical Review Fluids, 2020, 5, .	2.5	2
51	Nanoscale element behavior in a continuum. Journal of Synchrotron Radiation, 2020, 27, 1033-1041.	2.4	0
52	Versatile Amorphous Structures of Phosphonate Metal‐Organic Framework/Alginate Composite for Tunable Sieving of Ions. Advanced Functional Materials, 2019, 29, 1904016.	14.9	20
53	Effect of flow and humidity on indoor deposition of particulate matter. Environmental Pollution, 2019, 255, 113263.	7.5	29
54	Deep learning-based accurate and rapid tracking of 3D positional information of microparticles using digital holographic microscopy. Experiments in Fluids, 2019, 60, 1.	2.4	9

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55	Flapping dynamics of a flexible plate with Navier slip. <i>Physics of Fluids</i> , 2019, 31, .	4.0	21
56	Air spreading through wetted cellulose membranes: Implications for the safety function of hydraulic valves in plants. <i>Physical Review E</i> , 2019, 100, 032409.	2.1	10
57	Learning-based automatic sensing and size classification of microparticles using smartphone holographic microscopy. <i>Analyst, The</i> , 2019, 144, 1751-1760.	3.5	8
58	Effect of material stiffness on the motion and flow near the free end of a finite cylinder surface. <i>Experimental Thermal and Fluid Science</i> , 2019, 102, 548-558.	2.7	4
59	Penetration of a bubble through porous membranes with different wettabilities. <i>Soft Matter</i> , 2019, 15, 5819-5826.	2.7	11
60	Considerable drag reduction and fuel saving of a tractorâ€”trailer using additive aerodynamic devices. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 191, 54-62.	3.9	13
61	Superhydrophilicâ€”Superhydrophobic Water Harvester Inspired by Wetting Property of Cactus Stem. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10561-10569.	6.7	55
62	Graphene oxide induces cardiovascular defects in developing zebrafish (<i>Danio rerio</i>) embryo model: In-vivo toxicity assessment. <i>Science of the Total Environment</i> , 2019, 673, 810-820.	8.0	42
63	Advanced molecular interaction in Cu ²⁺ -alginate beads with high M/G ratio for the intercalation of Li ⁺ and Mg ²⁺ ions. <i>Journal of Molecular Structure</i> , 2019, 1187, 172-178.	3.6	4
64	Effects of pressure gradient on stability and drag reduction of superhydrophobic surfaces. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	23
65	Crossly charged microfluidic device for spontaneous filtration without an external power supply. <i>Analytical Biochemistry</i> , 2019, 577, 21-25.	2.4	0
66	Hydrodynamic Study on the â€œStop-and-Accelerationâ€”Pattern of Refilling Flow at Perforation Plates by Using a Xylem-Inspired Channel. <i>Frontiers in Plant Science</i> , 2019, 9, 1931.	3.6	3
67	A novel approach to investigate hypoxic microenvironment during rice colonization by <i>Magnaporthe oryzae</i> . <i>Environmental Microbiology</i> , 2019, 21, 1151-1169.	3.8	8
68	Acoustically Excited Oscillating Bubble on a Flexible Structure and Its Energy-Harvesting Capability. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 531-537.	4.9	8
69	A nature-inspired lubricant-infused surface for sustainable drag reduction. <i>Soft Matter</i> , 2019, 15, 8459-8467.	2.7	62
70	Undulatory topographical waves for flow-induced foulant sweeping. <i>Science Advances</i> , 2019, 5, eaax8935.	10.3	17
71	Removal of fine particulate matter (PM _{2.5}) via atmospheric humidity caused by evapotranspiration. <i>Environmental Pollution</i> , 2019, 245, 253-259.	7.5	55
72	Accuracy evaluation of blood flow distribution in the Fontan circulation: effects of resolution and velocity noise. <i>Journal of Visualization</i> , 2019, 22, 245-257.	1.8	3

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73	Deep learning-based digital in-line holographic microscopy for high resolution with extended field of view. Optics and Laser Technology, 2019, 113, 77-86.	4.6	25
74	Flattenedâ€œTop Domical Droplet Formed by a Poly(pyrrole) Membrane. Macromolecular Materials and Engineering, 2019, 304, 1800707.	3.6	1
75	Selective lithium and magnesium adsorption by phosphonate metal-organic framework-incorporated alginate hydrogel inspired from lithium adsorption characteristics of brown algae. Separation and Purification Technology, 2019, 212, 611-618.	7.9	37
76	In vivo toxicity evaluation of pristine graphene in developing zebrafish (Danio rerio) embryos. Environmental Science and Pollution Research, 2018, 25, 12821-12829.	5.3	27
77	Fast and Efficient Water Absorption Material Inspired by Cactus Root. ACS Macro Letters, 2018, 7, 387-394.	4.8	16
78	Machine learningâ€œbased inâ€œline holographic sensing of unstained malariaâ€œinfected red blood cells. Journal of Biophotonics, 2018, 11, e201800101.	2.3	47
79	Effects of oil-film layer and surfactant on the siphonal respiration and survivorship in the fourth instar larvae of Aedes togoi mosquito in laboratory conditions. Scientific Reports, 2018, 8, 5694.	3.3	14
80	<i>In vitro</i> and <i>ex vivo</i> measurement of the biophysical properties of blood using microfluidic platforms and animal models. Analyst, The, 2018, 143, 2723-2749.	3.5	33
81	Enhancement of measurement accuracy of X-ray PIV in comparison with the micro-PIV technique. Journal of Synchrotron Radiation, 2018, 25, 552-559.	2.4	2
82	Flow characteristics around a deformable stenosis under pulsatile flow condition. Physics of Fluids, 2018, 30, 011902.	4.0	23
83	Quantitative Analysis of Helical Flow with Accuracy Using Ultrasound Speckle Image Velocimetry: In Vitro and in Vivo Feasibility Studies. Ultrasound in Medicine and Biology, 2018, 44, 657-669.	1.5	7
84	Digital stereo-holographic microscopy for studying three-dimensional particle dynamics. Optics and Lasers in Engineering, 2018, 105, 6-13.	3.8	12
85	Label-free sensor for automatic identification of erythrocytes using digital in-line holographic microscopy and machine learning. Biosensors and Bioelectronics, 2018, 103, 12-18.	10.1	27
86	Enhancement of plant leaf transpiration with effective use of surface acoustic waves: effect of wave frequency. RSC Advances, 2018, 8, 15141-15148.	3.6	2
87	Three-dimensional rotational dynamics of prolate particles in a circular tube. Experiments in Fluids, 2018, 59, 1.	2.4	2
88	The Relationship between Turgor Pressure Change and Cell Hydraulics of Midrib Parenchyma Cells in the Leaves of Zea mays. Cells, 2018, 7, 180.	4.1	7
89	Effect of pannus formation on the prosthetic heart valve: In vitro demonstration using particle image velocimetry. PLoS ONE, 2018, 13, e0199792.	2.5	13
90	Pristine graphene induces cardiovascular defects in zebrafish (Danio rerio) embryogenesis. Environmental Pollution, 2018, 243, 246-254.	7.5	36

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91	Comparison of flow structures behind rigid and flexible finite cylinders. International Journal of Mechanical Sciences, 2018, 142-143, 480-490.	6.7	16
92	Measurement of pressure around porous membranes using a cell pressure probe. Measurement: Journal of the International Measurement Confederation, 2018, 128, 214-219.	5.0	1
93	Hydraulic Strategy of Cactus Rootâ€“Stem Junction for Effective Water Transport. Frontiers in Plant Science, 2018, 9, 799.	3.6	12
94	Optimal Design of Needle Array for Effective Drug Delivery. Annals of Biomedical Engineering, 2018, 46, 2012-2022.	2.5	3
95	Endothelial cell monolayer-based microfluidic systems mimicking complex in vivo microenvironments for the study of leukocyte dynamics in inflamed blood vessels. Methods in Cell Biology, 2018, 146, 23-42.	1.1	3
96	Pressure-driven spontaneous ion concentration polarization using an ion-selective membrane. Analytical Biochemistry, 2018, 557, 13-17.	2.4	5
97	Focusing and alignment of erythrocytes in a viscoelastic medium. Scientific Reports, 2017, 7, 41162.	3.3	18
98	Variation in wall shear stress in channel networks of zebrafish models. Journal of the Royal Society Interface, 2017, 14, 20160900.	3.4	13
99	Salient drag reduction of a heavy vehicle using modified cab-roof fairings. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 164, 138-151.	3.9	35
100	Synchrotron x-ray imaging of acoustic cavitation bubbles induced by acoustic excitation. Measurement Science and Technology, 2017, 28, 045301.	2.6	2
101	Floating of the lobes of mosquito (Aedes togoi) larva for respiration. Scientific Reports, 2017, 7, 43050.	3.3	16
102	Pine cone scale-inspired motile origami. NPG Asia Materials, 2017, 9, e389-e389.	7.9	7
103	Comparison of the tracheal systems of Anopheles sinensis and Aedes togoi larvae using synchrotron X-ray microscopic computed tomography (respiratory system of mosquito larvae using SR- μ CT). Microscopy Research and Technique, 2017, 80, 985-993.	2.2	6
104	How the pine seeds attach to/detach from the pine cone scale?. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2017, 10, 38-47.	1.1	6
105	Shelter effects of porous multi-scale fractal fences. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 163, 6-14.	3.9	18
106	Nature-inspired thermo-responsive multifunctional membrane adaptively hybridized with PNIPAm and PPy. NPG Asia Materials, 2017, 9, e445-e445.	7.9	34
107	Substantial drag reduction of a tractor-trailer vehicle using gap fairings. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 93-100.	3.9	7
108	Label-Free Sensing and Classification of Old Stored Blood. Annals of Biomedical Engineering, 2017, 45, 2563-2573.	2.5	7

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109	Effective method for drug injection into subcutaneous tissue. Scientific Reports, 2017, 7, 9613.	3.3	68
110	Hemodynamic characteristics of flow around a deformable stenosis. Journal of Biomechanics, 2017, 61, 216-223.	2.1	6
111	Bio-inspired cab-roof fairing of heavy vehicles for enhancing drag reduction and driving stability. International Journal of Mechanical Sciences, 2017, 131-132, 868-879.	6.7	14
112	Nearly Perfect Durable Superhydrophobic Surfaces Fabricated by a Simple One-Step Plasma Treatment. Scientific Reports, 2017, 7, 1981.	3.3	79
113	Microfluidic system for monitoring temporal variations of hemorheological properties and platelet adhesion in LPS-injected rats. Scientific Reports, 2017, 7, 1801.	3.3	29
114	Drag reduction of a heavy vehicle using a modified boat tail with lower inclined air deflector. Journal of Visualization, 2017, 20, 743-752.	1.8	12
115	Drag-reducing underbody flow of a heavy vehicle with side skirts. Journal of Visualization, 2017, 20, 369-378.	1.8	4
116	Adhesion and Suction Functions of the Tip Region of a Nectar-drinking Butterfly Proboscis. Journal of Bionic Engineering, 2017, 14, 600-606.	5.0	3
117	Hydraulic Strategy of Cactus Trichome for Absorption and Storage of Water under Arid Environment. Frontiers in Plant Science, 2017, 8, 1777.	3.6	33
118	A Biologically-Inspired Symmetric Bidirectional Switch. PLoS ONE, 2017, 12, e0169856.	2.5	6
119	Superb feeding behavior of Aedes albopictus transmitting Zika virus. PLoS ONE, 2017, 12, e0184871.	2.5	1
120	Homocysteine-induced peripheral microcirculation dysfunction in zebrafish and its attenuation by L-arginine. Oncotarget, 2017, 8, 58264-58271.	1.8	7
121	Immunological consequences of ageing microvascular hemodynamic changes in view of cancer development and treatment. Oncotarget, 2017, 8, 69047-69061.	1.8	0
122	Vulnerability of Protoxylem and Metaxylem Vessels to Embolisms and Radial Refilling in a Vascular Bundle of Maize Leaves. Frontiers in Plant Science, 2016, 7, 941.	3.6	25
123	Hemodynamic Measurement Using Four-Dimensional Phase-Contrast MRI: Quantification of Hemodynamic Parameters and Clinical Applications. Korean Journal of Radiology, 2016, 17, 445.	3.4	35
124	The performance of bioinspired valveless piezoelectric micropump with respect to viscosity change. Bioinspiration and Biomimetics, 2016, 11, 036006.	2.9	23
125	Hybrid bright-field and hologram imaging of cell dynamics. Scientific Reports, 2016, 6, 33750.	3.3	11
126	In vivo measurement of hemodynamic information in stenosed rat blood vessels using X-ray PIV. Scientific Reports, 2016, 6, 37985.	3.3	6

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127	Effect of diabetic duration on hemorheological properties and platelet aggregation in streptozotocin-induced diabetic rats. Scientific Reports, 2016, 6, 21913.	3.3	31
128	Development of a Desalination Membrane Bioinspired by Mangrove Roots for Spontaneous Filtration of Sodium Ions. ACS Nano, 2016, 10, 11428-11433.	14.6	30
129	In-vivo analysis of the uptake process of heavy metals through maize roots by using synchrotron X-ray fluorescence spectroscopy. Journal of the Korean Physical Society, 2016, 69, 1824-1829.	0.7	5
130	X-ray PIV measurement of blood flow in deep vessels of a rat: An in vivo feasibility study. Scientific Reports, 2016, 6, 19194.	3.3	23
131	Microfluidics for simultaneous quantification of platelet adhesion and blood viscosity. Scientific Reports, 2016, 6, 24994.	3.3	30
132	Reduction of drag in heavy vehicles with two different types of advanced side skirts. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 155, 36-46.	3.9	35
133	Immunological and pleiotropic effects of individual β -blockers and their relevance in cancer therapies. Expert Opinion on Investigational Drugs, 2016, 25, 501-505.	4.1	14
134	Smart self-cleaning cover glass for automotive miniature cameras. , 2016, , .		2
135	Precise measurement of orientations of transparent ellipsoidal particles through digital holographic microscopy. Optics Express, 2016, 24, 598.	3.4	15
136	Estimation of turbulent kinetic energy using 4D phase-contrast MRI: Effect of scan parameters and target vessel size. Magnetic Resonance Imaging, 2016, 34, 715-723.	1.8	12
137	Flow characteristics around proximal and distal stenoses in a series of tandem stenosed vessels. Journal of Biomechanics, 2016, 49, 2960-2967.	2.1	9
138	SPECT/CT analysis of splenic function in genistein-treated malaria-infected mice. Experimental Parasitology, 2016, 170, 10-15.	1.2	2
139	Reply to letter by Dyverfeldt and Ebbers regarding the article “Estimation of turbulent kinetic energy using 4D phase-contrast MRI: Effect of scan parameters and target vessel size”. Magnetic Resonance Imaging, 2016, 34, 1338-1340.	1.8	1
140	Multi-VENC acquisition of four-dimensional phase-contrast MRI to improve precision of velocity field measurement. Magnetic Resonance in Medicine, 2016, 75, 1909-1919.	3.0	49
141	In vivodynamic analysis of water refilling in embolized xylem vessels of intact Zea mays leaves. Annals of Botany, 2016, 118, 1033-1042.	2.9	12
142	Novel water filtration of saline water in the outermost layer of mangrove roots. Scientific Reports, 2016, 6, 20426.	3.3	31
143	Compact and Thermosensitive Nature-inspired Micropump. Scientific Reports, 2016, 6, 36085.	3.3	24
144	Fabrication of Triple-parted Stomata-inspired Membrane with Stimulus-responsive Functions. Scientific Reports, 2016, 6, 21258.	3.3	5

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145	Electrically Controllable Microparticle Synthesis and Digital Microfluidic Manipulation by Electric-Field-Induced Droplet Dispensing into Immiscible Fluids. <i>Scientific Reports</i> , 2016, 6, 31901.	3.3	15
146	Peculiar liquid-feeding and pathogen transmission behavior of <i>Aedes togoi</i> and comparison with <i>Anopheles sinensis</i> . <i>Scientific Reports</i> , 2016, 6, 20464.	3.3	5
147	Direct observation of local xylem embolisms induced by soil drying in intact <i>Zea mays</i> leaves. <i>Journal of Experimental Botany</i> , 2016, 67, 2617-2626.	4.8	21
148	A novel fibrous duct structure discovered in the brain meninges by using polarized light microscopy. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1246-1253.	0.7	0
149	Three-dimensional swimming motility of microorganism in the near-wall region. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	14
150	High-Throughput and Label-Free Blood-on-a-Chip for Malaria Diagnosis. <i>Analytical Chemistry</i> , 2016, 88, 2912-2922.	6.5	28
151	Effect of initial attitude on autorotation flight of maple samaras (<i>Acer palmatum</i>). <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 741-747.	1.5	14
152	Post-stenotic plug-like jet with a vortex ring demonstrated by 4D flow MRI. <i>Magnetic Resonance Imaging</i> , 2016, 34, 371-375.	1.8	12
153	Cytochrome b5 Reductase 1 Triggers Serial Reactions that Lead to Iron Uptake in Plants. <i>Molecular Plant</i> , 2016, 9, 501-513.	8.3	26
154	Deformability measurement of red blood cells using a microfluidic channel array and an air cavity in a driving syringe with high throughput and precise detection of subpopulations. <i>Analyst</i> , The, 2016, 141, 319-330.	3.5	23
155	Capillary waves in a sharp-edged slit driven by vertical vibration. <i>Experimental Thermal and Fluid Science</i> , 2016, 71, 52-56.	2.7	1
156	Turbulent Kinetic Energy Measurement Using Phase Contrast MRI for Estimating the Post-Stenotic Pressure Drop: In Vitro Validation and Clinical Application. <i>PLoS ONE</i> , 2016, 11, e0151540.	2.5	34
157	NO-dependent attenuation of TPA-induced immunoinflammatory skin changes in Balb/c mice by pindolol, heptaminol or ATRA, but not by verapamil. <i>Oncotarget</i> , 2016, 7, 47576-47585.	1.8	3
158	Post-Stenotic Recirculating Flow May Cause Hemodynamic Perforator Infarction. <i>Journal of Stroke</i> , 2016, 18, 66-72.	3.2	7
159	The Internal Structure of Macroporous Membranes and Transport of Surface-Modified Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015, 21, 936-945.	0.4	3
160	Journey of water in pine cones. <i>Scientific Reports</i> , 2015, 5, 9963.	3.3	37
161	Dehydration-mediated cluster formation of nanoparticles. <i>Scientific Reports</i> , 2015, 5, 11383.	3.3	3
162	Optimum periodicity of repeated contractile actions applied in mass transport. <i>Scientific Reports</i> , 2015, 5, 7800.	3.3	2

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163	Collective ordering of microscale matters in natural analogy. Scientific Reports, 2015, 5, 10790.	3.3	0
164	Fast Electrically Driven Capillary Rise Using Overdrive Voltage. Langmuir, 2015, 31, 13718-13724.	3.5	11
165	Stomata-Inspired Membrane Produced Through Photopolymerization Patterning. Advanced Functional Materials, 2015, 25, 4496-4505.	14.9	25
166	The Effect of Umbilical Cord Blood Derived Mesenchymal Stem Cells in Monocrotaline-induced Pulmonary Artery Hypertension Rats. Journal of Korean Medical Science, 2015, 30, 576.	2.5	20
167	Association of Early Atherosclerosis with Vascular Wall Shear Stress in Hypercholesterolemic Zebrafish. PLoS ONE, 2015, 10, e0142945.	2.5	10
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