

Sang Joon Lee

List of Publications by Year in descending order

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338
papers

7,113
citations

66234

42
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340
all docs

340
docs citations

340
times ranked

7539
citing authors

#	ARTICLE	IF	CITATIONS
1	Free end effects on the near wake flow structure behind a finite circular cylinder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2000, 88, 231-246.	1.7	157
2	The effect of nozzle configuration on stagnation region heat transfer enhancement of axisymmetric jet impingement. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 3497-3509.	2.5	156
3	Three-dimensional volumetric measurement of red blood cell motion using digital holographic microscopy. <i>Applied Optics</i> , 2009, 48, 2983.	2.1	115
4	Wind tunnel observations about the shelter effect of porous fences on the sand particle movements. <i>Atmospheric Environment</i> , 2002, 36, 1453-1463.	1.9	104
5	Particle migration and single-line particle focusing in microscale pipe flow of viscoelastic fluids. <i>RSC Advances</i> , 2014, 4, 3512-3520.	1.7	104
6	Quantitative visualization of flow inside an evaporating droplet using the ray tracing method. <i>Measurement Science and Technology</i> , 2004, 15, 1104-1112.	1.4	88
7	Gold Nanoparticle Contrast Agents in Advanced X-ray Imaging Technologies. <i>Molecules</i> , 2013, 18, 5858-5890.	1.7	87
8	X-ray particle image velocimetry for measuring quantitative flow information inside opaque objects. <i>Journal of Applied Physics</i> , 2003, 94, 3620-3623.	1.1	86
9	Impact and wetting behaviors of impinging microdroplets on superhydrophobic textured surfaces. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	80
10	Nearly Perfect Durable Superhydrophobic Surfaces Fabricated by a Simple One-Step Plasma Treatment. <i>Scientific Reports</i> , 2017, 7, 1981.	1.6	79
11	PIV measurements of the near-wake behind a sinusoidal cylinder. <i>Experiments in Fluids</i> , 2005, 38, 824-832.	1.1	78
12	Lateral migration and focusing of microspheres in a microchannel flow of viscoelastic fluids. <i>Physics of Fluids</i> , 2014, 26, .	1.6	76
13	Gold nanoparticle-incorporated human red blood cells (RBCs) for X-ray dynamic imaging. <i>Biomaterials</i> , 2011, 32, 7191-7199.	5.7	68
14	Evaporation-induced saline Rayleigh convection inside a colloidal droplet. <i>Physics of Fluids</i> , 2013, 25, .	1.6	68
15	Effective method for drug injection into subcutaneous tissue. <i>Scientific Reports</i> , 2017, 7, 9613.	1.6	68
16	In vivo Visualization of the Water-refilling Process in Xylem Vessels Using X-ray Micro-imaging. <i>Annals of Botany</i> , 2008, 101, 595-602.	1.4	64
17	X-ray PIV measurements of blood flows without tracer particles. <i>Experiments in Fluids</i> , 2006, 41, 195-200.	1.1	63
18	A nature-inspired lubricant-infused surface for sustainable drag reduction. <i>Soft Matter</i> , 2019, 15, 8459-8467.	1.2	62

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19	Controlled cellular uptake and drug efficacy of nanotherapeutics. <i>Scientific Reports</i> , 2013, 3, 1997.	1.6	61
20	Electrowetting-Induced Droplet Detachment from Hydrophobic Surfaces. <i>Langmuir</i> , 2014, 30, 1805-1811.	1.6	60
21	Holographic analysis of three-dimensional inertial migration of spherical particles in micro-scale pipe flow. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 819-829.	1.0	57
22	Micro-PIV measurements of blood flow in extraembryonic blood vessels of chicken embryos. <i>Physiological Measurement</i> , 2007, 28, 1149-1162.	1.2	55
23	PIV analysis of near-wake behind a sphere at a subcritical Reynolds number. <i>Experiments in Fluids</i> , 2008, 44, 905-914.	1.1	55
24	Simultaneous PIV and PTV measurements of wind and sand particle velocities. <i>Experiments in Fluids</i> , 2008, 45, 241-256.	1.1	55
25	Superhydrophilic/Superhydrophobic Water Harvester Inspired by Wetting Property of Cactus Stem. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10561-10569.	3.2	55
26	Removal of fine particulate matter (PM2.5) via atmospheric humidity caused by evapotranspiration. <i>Environmental Pollution</i> , 2019, 245, 253-259.	3.7	55
27	Advanced particle-based velocimetry techniques for microscale flows. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 577-588.	1.0	54
28	Synchrotron X-ray imaging for nondestructive monitoring of sap flow dynamics through xylem vessel elements in rice leaves. <i>New Phytologist</i> , 2010, 188, 1085-1098.	3.5	54
29	Changes in velocity profile according to blood viscosity in a microchannel. <i>Biomicrofluidics</i> , 2014, 8, 034110.	1.2	54
30	Label-free viscosity measurement of complex fluids using reversal flow switching manipulation in a microfluidic channel. <i>Biomicrofluidics</i> , 2013, 7, 44106.	1.2	52
31	Heat transfer enhancement of impinging jets using mesh screens. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 2097-2108.	2.5	50
32	Measurement of Dean flow in a curved micro-tube using micro digital holographic particle tracking velocimetry. <i>Experiments in Fluids</i> , 2009, 46, 255-264.	1.1	50
33	Experimental analysis of the blood-sucking mechanism of female mosquitoes. <i>Journal of Experimental Biology</i> , 2011, 214, 1163-1169.	0.8	50
34	Three-dimensional digital microfluidic manipulation of droplets in oil medium. <i>Scientific Reports</i> , 2015, 5, 10685.	1.6	50
35	Advances in digital holographic micro-PTV for analyzing microscale flows. <i>Optics and Lasers in Engineering</i> , 2012, 50, 39-45.	2.0	49
36	Multi-VENC acquisition of four-dimensional phase-contrast MRI to improve precision of velocity field measurement. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1909-1919.	1.9	49

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37	Seawater Desalination Using MOF-Incorporated Cu-Based Alginate Beads without Energy Consumption. ACS Applied Materials & Interfaces, 2020, 12, 16319-16326.	4.0	48
38	Machine learning-based inline holographic sensing of unstained malaria-infected red blood cells. Journal of Biophotonics, 2018, 11, e201800101.	1.1	47
39	A review on experimental evaluation of water management in a polymer electrolyte fuel cell using X-ray imaging technique. Journal of Power Sources, 2013, 230, 101-108.	4.0	46
40	Three-component velocity field measurements of propeller wake using a stereoscopic PIV technique. Experiments in Fluids, 2004, 36, 575-585.	1.1	45
41	PIV measurements of the wake behind a rotationally oscillating circular cylinder. Journal of Fluids and Structures, 2008, 24, 2-17.	1.5	45
42	Microfluidic-based speckle analysis for sensitive measurement of erythrocyte aggregation: A comparison of four methods for detection of elevated erythrocyte aggregation in diabetic rat blood. Biomicrofluidics, 2015, 9, 024110.	1.2	45
43	Simultaneous solar-driven seawater desalination and spontaneous power generation using polyvalent crosslinked polypyrrole/alginate hydrogels. Desalination, 2021, 500, 114900.	4.0	45
44	Blood viscoelasticity measurement using steady and transient flow controls of blood in a microfluidic analogue of Wheatstone-bridge channel. Biomicrofluidics, 2013, 7, 54122.	1.2	44
45	Simultaneous measurement of size and velocity of microbubbles moving in an opaque tube using an X-ray particle tracking velocimetry technique. Experiments in Fluids, 2005, 39, 492-497.	1.1	43
46	Improvement of natural ventilation in a large factory building using a louver ventilator. Building and Environment, 2008, 43, 2132-2141.	3.0	43
47	Graphene oxide induces cardiovascular defects in developing zebrafish (Danio rerio) embryo model: In-vivo toxicity assessment. Science of the Total Environment, 2019, 673, 810-820.	3.9	42
48	Tracking of saltating sand trajectories over a flat surface embedded in an atmospheric boundary layer. Geomorphology, 2007, 86, 320-331.	1.1	41
49	Determination of the swimming trajectory and speed of chain-forming dinoflagellate Cochlodinium polykrikoides with digital holographic particle tracking velocimetry. Marine Biology, 2011, 158, 561-570.	0.7	41
50	Measurement of 3D laminar flow inside a micro tube using micro digital holographic particle tracking velocimetry. Journal of Micromechanics and Microengineering, 2007, 17, 2157-2162.	1.5	40
51	Quantitative visualization of temporal water evolution in an operating polymer electrolyte fuel cell. International Journal of Hydrogen Energy, 2010, 35, 10457-10463.	3.8	40
52	A review on carbonized natural green flora for solar desalination. Renewable and Sustainable Energy Reviews, 2022, 158, 112121.	8.2	40
53	Real-time imaging of pulvinus bending in Mimosa pudica. Scientific Reports, 2014, 4, 6466.	1.6	39
54	Role of polymer concentration and molecular weight on the rebounding behaviors of polymer solution droplet impacting on hydrophobic surfaces. Microfluidics and Nanofluidics, 2015, 18, 1221-1232.	1.0	39

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55	A microfluidic device for simultaneous measurement of viscosity and flow rate of blood in a complex fluidic network. <i>Biomicrofluidics</i> , 2013, 7, 054111.	1.2	38
56	Mechanism of autorotation flight of maple samaras (<i>Acer palmatum</i>). <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	37
57	Journey of water in pine cones. <i>Scientific Reports</i> , 2015, 5, 9963.	1.6	37
58	Selective lithium and magnesium adsorption by phosphonate metal-organic framework-incorporated alginate hydrogel inspired from lithium adsorption characteristics of brown algae. <i>Separation and Purification Technology</i> , 2019, 212, 611-618.	3.9	37
59	Pristine graphene induces cardiovascular defects in zebrafish (<i>Danio rerio</i>) embryogenesis. <i>Environmental Pollution</i> , 2018, 243, 246-254.	3.7	36
60	Vertical focusing and cell ordering in a microchannel via viscoelasticity: Applications for cell monitoring using a digital holographic microscopy. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	35
61	Hemodynamic Measurement Using Four-Dimensional Phase-Contrast MRI: Quantification of Hemodynamic Parameters and Clinical Applications. <i>Korean Journal of Radiology</i> , 2016, 17, 445.	1.5	35
62	Reduction of drag in heavy vehicles with two different types of advanced side skirts. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 155, 36-46.	1.7	35
63	Salient drag reduction of a heavy vehicle using modified cab-roof fairings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 164, 138-151.	1.7	35
64	Effect of particle number density in in-line digital holographic particle velocimetry. <i>Experiments in Fluids</i> , 2008, 44, 623-631.	1.1	34
65	Detaching droplets in immiscible fluids from a solid substrate with the help of electrowetting. <i>Lab on A Chip</i> , 2015, 15, 900-907.	3.1	34
66	Nature-inspired thermo-responsive multifunctional membrane adaptively hybridized with PNIPAm and PPy. <i>NPG Asia Materials</i> , 2017, 9, e445-e445.	3.8	34
67	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.	1.1	34
68	Gold Nanoparticle Flow Sensors Designed for Dynamic X-ray Imaging in Biofluids. <i>ACS Nano</i> , 2010, 4, 3753-3762.	7.3	33
69	Wind tunnel observation on the effect of a porous wind fence on shelter of saltating sand particles. <i>Geomorphology</i> , 2010, 120, 224-232.	1.1	33
70	Hydraulic Strategy of Cactus Trichome for Absorption and Storage of Water under Arid Environment. <i>Frontiers in Plant Science</i> , 2017, 8, 1777.	1.7	33
71	<i>In vitro</i> and <i>ex vivo</i> measurement of the biophysical properties of blood using microfluidic platforms and animal models. <i>Analyst</i> , 2018, 143, 2723-2749.	1.7	33
72	Solar Evaporation-Based Energy Harvesting Using a Leaf-Inspired Energy-Harvesting Foam. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5027-5037.	3.2	33

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73	Velocity field measurements of valvular blood flow in a human superficial vein using high-frequency ultrasound speckle image velocimetry. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 69-77.	0.7	32
74	Effect of swirling inlet condition on the flow field in a stenosed arterial vessel model. <i>Medical Engineering and Physics</i> , 2014, 36, 119-128.	0.8	32
75	Improvement of ultrasound speckle image velocimetry using image enhancement techniques. <i>Ultrasonics</i> , 2014, 54, 205-216.	2.1	32
76	Effect of diabetic duration on hemorheological properties and platelet aggregation in streptozotocin-induced diabetic rats. <i>Scientific Reports</i> , 2016, 6, 21913.	1.6	31
77	Novel water filtration of saline water in the outermost layer of mangrove roots. <i>Scientific Reports</i> , 2016, 6, 20426.	1.6	31
78	A lubricant-infused slip surface for drag reduction. <i>Physics of Fluids</i> , 2020, 32, .	1.6	31
79	Investigation of water seepage through porous media using X-ray imaging technique. <i>Journal of Hydrology</i> , 2012, 452-453, 83-89.	2.3	30
80	3D reconstruction of a carotid bifurcation from 2D transversal ultrasound images. <i>Ultrasonics</i> , 2014, 54, 2184-2192.	2.1	30
81	Development of a Desalination Membrane Bioinspired by Mangrove Roots for Spontaneous Filtration of Sodium Ions. <i>ACS Nano</i> , 2016, 10, 11428-11433.	7.3	30
82	Microfluidics for simultaneous quantification of platelet adhesion and blood viscosity. <i>Scientific Reports</i> , 2016, 6, 24994.	1.6	30
83	Experimental study on the fluid mechanics of blood sucking in the proboscis of a female mosquito. <i>Journal of Biomechanics</i> , 2009, 42, 857-864.	0.9	29
84	Hemodynamic features and platelet aggregation in a stenosed microchannel. <i>Microvascular Research</i> , 2013, 90, 96-105.	1.1	29
85	Microfluidic system for monitoring temporal variations of hemorheological properties and platelet adhesion in LPS-injected rats. <i>Scientific Reports</i> , 2017, 7, 1801.	1.6	29
86	Effect of flow and humidity on indoor deposition of particulate matter. <i>Environmental Pollution</i> , 2019, 255, 113263.	3.7	29
87	Whole-Body Imaging of a Hypercholesterolemic Female Zebrafish by Using Synchrotron X-Ray Micro-CT. <i>Zebrafish</i> , 2015, 12, 11-20.	0.5	28
88	High-Throughput and Label-Free Blood-on-a-Chip for Malaria Diagnosis. <i>Analytical Chemistry</i> , 2016, 88, 2912-2922.	3.2	28
89	Flow structure of wake behind a rotationally oscillating circular cylinder. <i>Journal of Fluids and Structures</i> , 2006, 22, 1097-1112.	1.5	27
90	In vivo toxicity evaluation of pristine graphene in developing zebrafish (<i>Danio rerio</i>) embryos. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12821-12829.	2.7	27

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91	Label-free sensor for automatic identification of erythrocytes using digital in-line holographic microscopy and machine learning. <i>Biosensors and Bioelectronics</i> , 2018, 103, 12-18.	5.3	27
92	X-ray imaging of various biological samples using a phase-contrast hard X-ray microscope. <i>Microscopy Research and Technique</i> , 2008, 71, 639-643.	1.2	26
93	Microfluidic-based measurement of erythrocyte sedimentation rate for biophysical assessment of blood in an in vivo malaria-infected mouse. <i>Biomicrofluidics</i> , 2014, 8, 044114.	1.2	26
94	Shelter effect of a fir tree with different porosities. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 565-572.	0.7	26
95	Evaporation-Induced Flows inside a Confined Droplet of Diluted Saline Solution. <i>Langmuir</i> , 2014, 30, 7710-7715.	1.6	26
96	Effects of drop viscosity on oscillation dynamics induced by AC electrowetting. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 48-54.	4.0	26
97	Cytochrome b5 Reductase 1 Triggers Serial Reactions that Lead to Iron Uptake in Plants. <i>Molecular Plant</i> , 2016, 9, 501-513.	3.9	26
98	PIV measurements of hull wake behind a container ship model with varying loading condition. <i>Ocean Engineering</i> , 2009, 36, 377-385.	1.9	25
99	Fluid-Dynamic Optimal Design of Helical Vascular Graft for Stenotic Disturbed Flow. <i>PLoS ONE</i> , 2014, 9, e111047.	1.1	25
100	Stomata-Inspired Membrane Produced Through Photopolymerization Patterning. <i>Advanced Functional Materials</i> , 2015, 25, 4496-4505.	7.8	25
101	Vulnerability of Protoxylem and Metaxylem Vessels to Embolisms and Radial Refilling in a Vascular Bundle of Maize Leaves. <i>Frontiers in Plant Science</i> , 2016, 7, 941.	1.7	25
102	Deep learning-based digital in-line holographic microscopy for high resolution with extended field of view. <i>Optics and Laser Technology</i> , 2019, 113, 77-86.	2.2	25
103	Decrement of spanwise vortices by a drag-reducing riblet surface. <i>Journal of Turbulence</i> , 2008, 9, N23.	0.5	24
104	Compact and Thermosensitive Nature-inspired Micropump. <i>Scientific Reports</i> , 2016, 6, 36085.	1.6	24
105	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.	1.6	24
106	Stereoscopic PIV measurements of flow behind an isolated low-speed axial-fan. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 791-802.	1.5	23
107	Murray's law and the bifurcation angle in the arterial micro-circulation system and their application to the design of microfluidics. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 85-95.	1.0	23
108	The performance of bioinspired valveless piezoelectric micropump with respect to viscosity change. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 036006.	1.5	23

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109	X-ray PIV measurement of blood flow in deep vessels of a rat: An in vivo feasibility study. Scientific Reports, 2016, 6, 19194.	1.6	23
110	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. Analyst, The, 2016, 141, 319-330.	1.7	23
111	Flow characteristics around a deformable stenosis under pulsatile flow condition. Physics of Fluids, 2018, 30, 011902.	1.6	23
112	Effects of pressure gradient on stability and drag reduction of superhydrophobic surfaces. Applied Physics Letters, 2019, 114, .	1.5	23
113	PIV analysis of flow around a container ship model with a rotating propeller. Experiments in Fluids, 2004, 36, 833-846.	1.1	22
114	Flow tracing microparticle sensors designed for enhanced X-ray contrast. Biosensors and Bioelectronics, 2010, 25, 1571-1578.	5.3	22
115	Wetting state and maximum spreading factor of microdroplets impacting on superhydrophobic textured surfaces with anisotropic arrays of pillars. Experiments in Fluids, 2013, 54, 1.	1.1	22
116	Synchrotron X-ray microscopic computed tomography of the pump system of a female mosquito. Microscopy Research and Technique, 2012, 75, 1051-1058.	1.2	21
117	Spreading dynamics and oil film entrapment of sessile drops submerged in oil driven by DC electrowetting. Sensors and Actuators B: Chemical, 2014, 196, 292-297.	4.0	21
118	Direct observation of local xylem embolisms induced by soil drying in intact <i>Zea mays</i> leaves. Journal of Experimental Botany, 2016, 67, 2617-2626.	2.4	21
119	Flapping dynamics of a flexible plate with Navier slip. Physics of Fluids, 2019, 31, .	1.6	21
120	Morphological features of mucous secretory organ and mucous secretion of loach <i>Misgurnus anguillicaudatus</i> skin for friction drag reduction. Journal of Fish Biology, 2020, 96, 83-91.	0.7	21
121	Efficient removal of indoor particulate matter using water microdroplets generated by a MHz-frequency ultrasonic atomizer. Building and Environment, 2020, 175, 106797.	3.0	21
122	Verification of the shelter effect of a windbreak on coal piles in the POSCO open storage yards at the Kwang-Yang works. Atmospheric Environment, 2002, 36, 2171-2185.	1.9	20
123	Dean-coupled inertial migration and transient focusing of particles in a curved microscale pipe flow. Experiments in Fluids, 2012, 53, 1867-1877.	1.1	20
124	Microfluidic Biosensor for Monitoring Temporal Variations of Hemorheological and Hemodynamic Properties Using an Extracorporeal Rat Bypass Loop. Analytical Chemistry, 2013, 85, 10503-10511.	3.2	20
125	Wettability and impact dynamics of water droplets on rice (<i>Oryza sativa</i> L.) leaves. Experiments in Fluids, 2014, 55, 1.	1.1	20
126	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.	1.1	20

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127	Versatile Amorphous Structures of Phosphonate Metal-Organic Framework/Alginate Composite for Tunable Sieving of Ions. <i>Advanced Functional Materials</i> , 2019, 29, 1904016.	7.8	20
128	Water transport in porous hydrogel structures analogous to leaf mesophyll cells. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 775-784.	1.0	19
129	PIV velocity field measurements of flow around a KRISO 3600TEU container ship model. <i>Journal of Marine Science and Technology</i> , 2003, 8, 76-87.	1.3	18
130	Development of a compact x-ray particle image velocimetry for measuring opaque flows. <i>Review of Scientific Instruments</i> , 2009, 80, 033706.	0.6	18
131	Hydraulic characteristics of water-refilling process in excised roots of <i>Arabidopsis</i> . <i>Planta</i> , 2013, 238, 307-315.	1.6	18
132	Focusing and alignment of erythrocytes in a viscoelastic medium. <i>Scientific Reports</i> , 2017, 7, 41162.	1.6	18
133	Shelter effects of porous multi-scale fractal fences. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 163, 6-14.	1.7	18
134	Adsorptive seawater desalination using MOF-incorporated Cu-alginate/PVA beads: Ion removal efficiency and durability. <i>Chemosphere</i> , 2021, 268, 128797.	4.2	18
135	Pristine graphene and graphene oxide induce multi-organ defects in zebrafish (<i>Danio rerio</i>) larvae/juvenile: an in vivo study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34664-34675.	2.7	18
136	Eco-friendly erucamide-polydimethylsiloxane coatings for marine anti-biofouling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112003.	2.5	18
137	Double-insulated porous PDMS sponge for heat-localized solar evaporative seawater desalination. <i>Desalination</i> , 2022, 526, 115540.	4.0	18
138	Chitosan microparticles incorporating gold as an enhanced contrast flow tracer in dynamic X-ray imaging. <i>Acta Biomaterialia</i> , 2011, 7, 2139-2147.	4.1	17
139	Bubble-free and pulse-free fluid delivery into microfluidic devices. <i>Biomicrofluidics</i> , 2014, 8, 014102.	1.2	17
140	Effect of phase shift on optimal operation of serial-connected valveless micropumps. <i>Sensors and Actuators A: Physical</i> , 2014, 209, 133-139.	2.0	17
141	Undulatory topographical waves for flow-induced foulant sweeping. <i>Science Advances</i> , 2019, 5, eaax8935.	4.7	17
142	Deep Learning-Based Super-resolution Ultrasound Speckle Tracking Velocimetry. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 598-609.	0.7	17
143	Anti-Biofouling Features of Eco-Friendly Oleamide-PDMS Copolymers. <i>ACS Omega</i> , 2020, 5, 11515-11521.	1.6	17
144	Deep learning-based hologram generation using a white light source. <i>Scientific Reports</i> , 2020, 10, 8977.	1.6	17

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145	Effect of trichome structure of <i>Tillandsia usneoides</i> on deposition of particulate matter under flow conditions. <i>Journal of Hazardous Materials</i> , 2020, 393, 122401.	6.5	17
146	Effect of pulsatile swirling flow on stenosed arterial blood flow. <i>Medical Engineering and Physics</i> , 2014, 36, 1106-1114.	0.8	16
147	Effects of red blood cell aggregates dissociation on the estimation of ultrasound speckle image velocimetry. <i>Ultrasonics</i> , 2014, 54, 1480-1487.	2.1	16
148	Hybrid System for Ex Vivo Hemorheological and Hemodynamic Analysis: A Feasibility Study. <i>Scientific Reports</i> , 2015, 5, 11064.	1.6	16
149	Trajectories of saltating sand particles behind a porous fence. <i>Geomorphology</i> , 2015, 228, 608-616.	1.1	16
150	Floating of the lobes of mosquito (<i>Aedes togoi</i>) larva for respiration. <i>Scientific Reports</i> , 2017, 7, 43050.	1.6	16
151	Fast and Efficient Water Absorption Material Inspired by Cactus Root. <i>ACS Macro Letters</i> , 2018, 7, 387-394.	2.3	16
152	Comparison of flow structures behind rigid and flexible finite cylinders. <i>International Journal of Mechanical Sciences</i> , 2018, 142-143, 480-490.	3.6	16
153	Enhanced air stability of superhydrophobic surfaces with flexible overhangs of re-entrant structures. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
154	Ultrasound deep learning for monitoring of flowâ€“vessel dynamics in murine carotid artery. <i>Ultrasonics</i> , 2022, 120, 106636.	2.1	16
155	High-accuracy three-dimensional position measurement of tens of micrometers size transparent microspheres using digital in-line holographic microscopy. <i>Optics Letters</i> , 2011, 36, 4167.	1.7	15
156	Hybrid PIVâ€“PTV technique for measuring blood flow in rat mesenteric vessels. <i>Microvascular Research</i> , 2012, 84, 242-248.	1.1	15
157	Uptake of liquid from wet surfaces by the brush-tipped proboscis of a butterfly. <i>Scientific Reports</i> , 2014, 4, 6934.	1.6	15
158	Precise measurement of orientations of transparent ellipsoidal particles through digital holographic microscopy. <i>Optics Express</i> , 2016, 24, 598.	1.7	15
159	Electrically Controllable Microparticle Synthesis and Digital Microfluidic Manipulation by Electric-Field-Induced Droplet Dispensing into Immiscible Fluids. <i>Scientific Reports</i> , 2016, 6, 31901.	1.6	15
160	Herbal black henna (hair dye) causes cardiovascular defects in zebrafish (<i>Danio rerio</i>) embryo model. <i>Environmental Science and Pollution Research</i> , 2020, 27, 14150-14159.	2.7	15
161	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.	2.7	15
162	In vivo measurements of blood flow in a rat using X-ray imaging technique. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 1853-1858.	0.7	14

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