

Sang Joon Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8754015/publications.pdf>

Version: 2024-02-01

338
papers

7,113
citations

61984

43
h-index

133252

59
g-index

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. Journal of Wind Engineering and Industrial Aerodynamics, 2000, 88, 231-246.	3.9	157
2	The effect of nozzle configuration on stagnation region heat transfer enhancement of axisymmetric jet impingement. International Journal of Heat and Mass Transfer, 2000, 43, 3497-3509.	4.8	156
3	Three-dimensional volumetric measurement of red blood cell motion using digital holographic microscopy. Applied Optics, 2009, 48, 2983.	2.1	115
4	Wind tunnel observations about the shelter effect of porous fences on the sand particle movements. Atmospheric Environment, 2002, 36, 1453-1463.	4.1	104
5	Particle migration and single-line particle focusing in microscale pipe flow of viscoelastic fluids. RSC Advances, 2014, 4, 3512-3520.	3.6	104
6	Quantitative visualization of flow inside an evaporating droplet using the ray tracing method. Measurement Science and Technology, 2004, 15, 1104-1112.	2.6	88
7	Gold Nanoparticle Contrast Agents in Advanced X-ray Imaging Technologies. Molecules, 2013, 18, 5858-5890.	3.8	87
8	X-ray particle image velocimetry for measuring quantitative flow information inside opaque objects. Journal of Applied Physics, 2003, 94, 3620-3623.	2.5	86
9	Impact and wetting behaviors of impinging microdroplets on superhydrophobic textured surfaces. Applied Physics Letters, 2012, 100, .	3.3	80
10	Nearly Perfect Durable Superhydrophobic Surfaces Fabricated by a Simple One-Step Plasma Treatment. Scientific Reports, 2017, 7, 1981.	3.3	79
11	PIV measurements of the near-wake behind a sinusoidal cylinder. Experiments in Fluids, 2005, 38, 824-832.	2.4	78
12	Lateral migration and focusing of microspheres in a microchannel flow of viscoelastic fluids. Physics of Fluids, 2014, 26, .	4.0	76
13	Gold nanoparticle-incorporated human red blood cells (RBCs) for X-ray dynamic imaging. Biomaterials, 2011, 32, 7191-7199.	11.4	68
14	Evaporation-induced saline Rayleigh convection inside a colloidal droplet. Physics of Fluids, 2013, 25, .	4.0	68
15	Effective method for drug injection into subcutaneous tissue. Scientific Reports, 2017, 7, 9613.	3.3	68
16	In vivo Visualization of the Water-refilling Process in Xylem Vessels Using X-ray Micro-imaging. Annals of Botany, 2008, 101, 595-602.	2.9	64
17	X-ray PIV measurements of blood flows without tracer particles. Experiments in Fluids, 2006, 41, 195-200.	2.4	63
18	A nature-inspired lubricant-infused surface for sustainable drag reduction. Soft Matter, 2019, 15, 8459-8467.	2.7	62

#	ARTICLE	IF	CITATIONS
19	Controlled cellular uptake and drug efficacy of nanotherapeutics. Scientific Reports, 2013, 3, 1997.	3.3	61
20	Electrowetting-Induced Droplet Detachment from Hydrophobic Surfaces. Langmuir, 2014, 30, 1805-1811.	3.5	60
21	Holographic analysis of three-dimensional inertial migration of spherical particles in micro-scale pipe flow. Microfluidics and Nanofluidics, 2010, 9, 819-829.	2.2	57
22	Micro-PIV measurements of blood flow in extraembryonic blood vessels of chicken embryos. Physiological Measurement, 2007, 28, 1149-1162.	2.1	55
23	PIV analysis of near-wake behind a sphere at a subcritical Reynolds number. Experiments in Fluids, 2008, 44, 905-914.	2.4	55
24	Simultaneous PIV and PTV measurements of wind and sand particle velocities. Experiments in Fluids, 2008, 45, 241-256.	2.4	55
25	Superhydrophilic/Superhydrophobic Water Harvester Inspired by Wetting Property of Cactus Stem. ACS Sustainable Chemistry and Engineering, 2019, 7, 10561-10569.	6.7	55
26	Removal of fine particulate matter (PM2.5) via atmospheric humidity caused by evapotranspiration. Environmental Pollution, 2019, 245, 253-259.	7.5	55
27	Advanced particle-based velocimetry techniques for microscale flows. Microfluidics and Nanofluidics, 2009, 6, 577-588.	2.2	54
28	Synchrotron X-ray imaging for nondestructive monitoring of sap flow dynamics through xylem vessel elements in rice leaves. New Phytologist, 2010, 188, 1085-1098.	7.3	54
29	Changes in velocity profile according to blood viscosity in a microchannel. Biomicrofluidics, 2014, 8, 034110.	2.4	54
30	Label-free viscosity measurement of complex fluids using reversal flow switching manipulation in a microfluidic channel. Biomicrofluidics, 2013, 7, 44106.	2.4	52
31	Heat transfer enhancement of impinging jets using mesh screens. International Journal of Heat and Mass Transfer, 2004, 47, 2097-2108.	4.8	50
32	Measurement of Dean flow in a curved micro-tube using micro digital holographic particle tracking velocimetry. Experiments in Fluids, 2009, 46, 255-264.	2.4	50
33	Experimental analysis of the blood-sucking mechanism of female mosquitoes. Journal of Experimental Biology, 2011, 214, 1163-1169.	1.7	50
34	Three-dimensional digital microfluidic manipulation of droplets in oil medium. Scientific Reports, 2015, 5, 10685.	3.3	50
35	Advances in digital holographic micro-PTV for analyzing microscale flows. Optics and Lasers in Engineering, 2012, 50, 39-45.	3.8	49
36	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

#	ARTICLE	IF	CITATIONS
37	Seawater Desalination Using MOF-Incorporated Cu-Based Alginate Beads without Energy Consumption. ACS Applied Materials & Interfaces, 2020, 12, 16319-16326.	8.0	48
38	Machine learning-based inline holographic sensing of unstained malaria-infected red blood cells. Journal of Biophotonics, 2018, 11, e201800101.	2.3	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.	7.8	46
40	Three-component velocity field measurements of propeller wake using a stereoscopic PIV technique. Experiments in Fluids, 2004, 36, 575-585.	2.4	45
41	PIV measurements of the wake behind a rotationally oscillating circular cylinder. Journal of Fluids and Structures, 2008, 24, 2-17.	3.4	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.	2.4	45
43	Simultaneous solar-driven seawater desalination and spontaneous power generation using polyvalent crosslinked polypyrrole/alginate hydrogels. Desalination, 2021, 500, 114900.	8.2	45
44	Blood viscoelasticity measurement using steady and transient flow controls of blood in a microfluidic analogue of Wheastone-bridge channel. Biomicrofluidics, 2013, 7, 54122.	2.4	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.	2.4	43
46	Improvement of natural ventilation in a large factory building using a louver ventilator. Building and Environment, 2008, 43, 2132-2141.	6.9	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.	8.0	42
48	Tracking of saltating sand trajectories over a flat surface embedded in an atmospheric boundary layer. Geomorphology, 2007, 86, 320-331.	2.6	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.	1.5	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.	2.6	40
51	Quantitative visualization of temporal water evolution in an operating polymer electrolyte fuel cell. International Journal of Hydrogen Energy, 2010, 35, 10457-10463.	7.1	40
52	A review on carbonized natural green flora for solar desalination. Renewable and Sustainable Energy Reviews, 2022, 158, 112121.	16.4	40
53	Real-time imaging of pulvinus bending in Mimosa pudica. Scientific Reports, 2014, 4, 6466.	3.3	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.	2.2	39

#	ARTICLE	IF	CITATIONS
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.	2.4	38
56	Mechanism of autorotation flight of maple samaras (<i>Acer palmatum</i>). <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	37
57	Journey of water in pine cones. <i>Scientific Reports</i> , 2015, 5, 9963.	3.3	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.	7.9	37
59	Pristine graphene induces cardiovascular defects in zebrafish (<i>Danio rerio</i>) embryogenesis. <i>Environmental Pollution</i> , 2018, 243, 246-254.	7.5	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, .	3.3	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.	3.4	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.	3.9	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.	3.9	35
64	Effect of particle number density in in-line digital holographic particle velocimetry. <i>Experiments in Fluids</i> , 2008, 44, 623-631.	2.4	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.	6.0	34
66	Nature-inspired thermo-responsive multifunctional membrane adaptively hybridized with PNIPAm and PPy. <i>NPG Asia Materials</i> , 2017, 9, e445-e445.	7.9	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.	2.5	34
68	Gold Nanoparticle Flow Sensors Designed for Dynamic X-ray Imaging in Biofluids. <i>ACS Nano</i> , 2010, 4, 3753-3762.	14.6	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.	2.6	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.	3.6	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.	3.5	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.	6.7	33

#	ARTICLE	IF	CITATIONS
73	Velocity field measurements of valvular blood flow in a human superficial vein using high-frequency ultrasound speckle image velocimetry. International Journal of Cardiovascular Imaging, 2012, 28, 69-77.	1.5	32
74	Effect of swirling inlet condition on the flow field in a stenosed arterial vessel model. Medical Engineering and Physics, 2014, 36, 119-128.	1.7	32
75	Improvement of ultrasound speckle image velocimetry using image enhancement techniques. Ultrasonics, 2014, 54, 205-216.	3.9	32
76	Effect of diabetic duration on hemorheological properties and platelet aggregation in streptozotocin-induced diabetic rats. Scientific Reports, 2016, 6, 21913.	3.3	31
77	Novel water filtration of saline water in the outermost layer of mangrove roots. Scientific Reports, 2016, 6, 20426.	3.3	31
78	A lubricant-infused slip surface for drag reduction. Physics of Fluids, 2020, 32, .	4.0	31
79	Investigation of water seepage through porous media using X-ray imaging technique. Journal of Hydrology, 2012, 452-453, 83-89.	5.4	30
80	3D reconstruction of a carotid bifurcation from 2D transversal ultrasound images. Ultrasonics, 2014, 54, 2184-2192.	3.9	30
81	Development of a Desalination Membrane Bioinspired by Mangrove Roots for Spontaneous Filtration of Sodium Ions. ACS Nano, 2016, 10, 11428-11433.	14.6	30
82	Microfluidics for simultaneous quantification of platelet adhesion and blood viscosity. Scientific Reports, 2016, 6, 24994.	3.3	30
83	Experimental study on the fluid mechanics of blood sucking in the proboscis of a female mosquito. Journal of Biomechanics, 2009, 42, 857-864.	2.1	29
84	Hemodynamic features and platelet aggregation in a stenosed microchannel. Microvascular Research, 2013, 90, 96-105.	2.5	29
85	Microfluidic system for monitoring temporal variations of hemorheological properties and platelet adhesion in LPS-injected rats. Scientific Reports, 2017, 7, 1801.	3.3	29
86	Effect of flow and humidity on indoor deposition of particulate matter. Environmental Pollution, 2019, 255, 113263.	7.5	29
87	Whole-Body Imaging of a Hypercholesterolemic Female Zebrafish by Using Synchrotron X-Ray Micro-CT. Zebrafish, 2015, 12, 11-20.	1.1	28
88	High-Throughput and Label-Free Blood-on-a-Chip for Malaria Diagnosis. Analytical Chemistry, 2016, 88, 2912-2922.	6.5	28
89	Flow structure of wake behind a rotationally oscillating circular cylinder. Journal of Fluids and Structures, 2006, 22, 1097-1112.	3.4	27
90	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

#	ARTICLE	IF	CITATIONS
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.	10.1	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.	2.2	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.	2.4	26
94	Shelter effect of a fir tree with different porosities. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 565-572.	1.5	26
95	Evaporation-Induced Flows inside a Confined Droplet of Diluted Saline Solution. <i>Langmuir</i> , 2014, 30, 7710-7715.	3.5	26
96	Effects of drop viscosity on oscillation dynamics induced by AC electrowetting. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 48-54.	7.8	26
97	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
98	PIV measurements of hull wake behind a container ship model with varying loading condition. <i>Ocean Engineering</i> , 2009, 36, 377-385.	4.3	25
99	Fluid-Dynamic Optimal Design of Helical Vascular Graft for Stenotic Disturbed Flow. <i>PLoS ONE</i> , 2014, 9, e111047.	2.5	25
100	Stomata-Inspired Membrane Produced Through Photopolymerization Patterning. <i>Advanced Functional Materials</i> , 2015, 25, 4496-4505.	14.9	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.	3.6	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.	4.6	25
103	Decrement of spanwise vortices by a drag-reducing riblet surface. <i>Journal of Turbulence</i> , 2008, 9, N23.	1.4	24
104	Compact and Thermosensitive Nature-inspired Micropump. <i>Scientific Reports</i> , 2016, 6, 36085.	3.3	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.	3.3	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.	2.7	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.	2.2	23
108	The performance of bioinspired valveless piezoelectric micropump with respect to viscosity change. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 036006.	2.9	23

#	ARTICLE	IF	CITATIONS
109	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
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.	3.5	23
111	Flow characteristics around a deformable stenosis under pulsatile flow condition. Physics of Fluids, 2018, 30, 011902.	4.0	23
112	Effects of pressure gradient on stability and drag reduction of superhydrophobic surfaces. Applied Physics Letters, 2019, 114, .	3.3	23
113	PIV analysis of flow around a container ship model with a rotating propeller. Experiments in Fluids, 2004, 36, 833-846.	2.4	22
114	Flow tracing microparticle sensors designed for enhanced X-ray contrast. Biosensors and Bioelectronics, 2010, 25, 1571-1578.	10.1	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.	2.4	22
116	Synchrotron X-ray microscopic computed tomography of the pump system of a female mosquito. Microscopy Research and Technique, 2012, 75, 1051-1058.	2.2	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.	7.8	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.	4.8	21
119	Flapping dynamics of a flexible plate with Navier slip. Physics of Fluids, 2019, 31, .	4.0	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.	1.6	21
121	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
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.	4.1	20
123	Dean-coupled inertial migration and transient focusing of particles in a curved microscale pipe flow. Experiments in Fluids, 2012, 53, 1867-1877.	2.4	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.	6.5	20
125	Wettability and impact dynamics of water droplets on rice (<i>Oryza sativa</i> L.) leaves. Experiments in Fluids, 2014, 55, 1.	2.4	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.	2.5	20

#	ARTICLE	IF	CITATIONS
127	Versatile Amorphous Structures of Phosphonate Metal-Organic Framework/Alginate Composite for Tunable Sieving of Ions. <i>Advanced Functional Materials</i> , 2019, 29, 1904016.	14.9	20
128	Water transport in porous hydrogel structures analogous to leaf mesophyll cells. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 775-784.	2.2	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.	2.9	18
130	Development of a compact x-ray particle image velocimetry for measuring opaque flows. <i>Review of Scientific Instruments</i> , 2009, 80, 033706.	1.3	18
131	Hydraulic characteristics of water-refilling process in excised roots of <i>Arabidopsis</i> . <i>Planta</i> , 2013, 238, 307-315.	3.2	18
132	Focusing and alignment of erythrocytes in a viscoelastic medium. <i>Scientific Reports</i> , 2017, 7, 41162.	3.3	18
133	Shelter effects of porous multi-scale fractal fences. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 163, 6-14.	3.9	18
134	Adsorptive seawater desalination using MOF-incorporated Cu-alginate/PVA beads: Ion removal efficiency and durability. <i>Chemosphere</i> , 2021, 268, 128797.	8.2	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.	5.3	18
136	Eco-friendly erucamide-polydimethylsiloxane coatings for marine anti-biofouling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112003.	5.0	18
137	Double-insulated porous PDMS sponge for heat-localized solar evaporative seawater desalination. <i>Desalination</i> , 2022, 526, 115540.	8.2	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.	8.3	17
139	Bubble-free and pulse-free fluid delivery into microfluidic devices. <i>Biomicrofluidics</i> , 2014, 8, 014102.	2.4	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.	4.1	17
141	Undulatory topographical waves for flow-induced foulant sweeping. <i>Science Advances</i> , 2019, 5, eaax8935.	10.3	17
142	Deep Learning-Based Super-resolution Ultrasound Speckle Tracking Velocimetry. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 598-609.	1.5	17
143	Anti-Biofouling Features of Eco-Friendly Oleamide-PDMS Copolymers. <i>ACS Omega</i> , 2020, 5, 11515-11521.	3.5	17
144	Deep learning-based hologram generation using a white light source. <i>Scientific Reports</i> , 2020, 10, 8977.	3.3	17

#	ARTICLE	IF	CITATIONS
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.	12.4	17
146	Effect of pulsatile swirling flow on stenosed arterial blood flow. <i>Medical Engineering and Physics</i> , 2014, 36, 1106-1114.	1.7	16
147	Effects of red blood cell aggregates dissociation on the estimation of ultrasound speckle image velocimetry. <i>Ultrasonics</i> , 2014, 54, 1480-1487.	3.9	16
148	Hybrid System for Ex Vivo Hemorheological and Hemodynamic Analysis: A Feasibility Study. <i>Scientific Reports</i> , 2015, 5, 11064.	3.3	16
149	Trajectories of saltating sand particles behind a porous fence. <i>Geomorphology</i> , 2015, 228, 608-616.	2.6	16
150	Floating of the lobes of mosquito (<i>Aedes togoi</i>) larva for respiration. <i>Scientific Reports</i> , 2017, 7, 43050.	3.3	16
151	Fast and Efficient Water Absorption Material Inspired by Cactus Root. <i>ACS Macro Letters</i> , 2018, 7, 387-394.	4.8	16
152	Comparison of flow structures behind rigid and flexible finite cylinders. <i>International Journal of Mechanical Sciences</i> , 2018, 142-143, 480-490.	6.7	16
153	Enhanced air stability of superhydrophobic surfaces with flexible overhangs of re-entrant structures. <i>Physics of Fluids</i> , 2021, 33, .	4.0	16
154	Ultrasound deep learning for monitoring of flowâ€“vessel dynamics in murine carotid artery. <i>Ultrasonics</i> , 2022, 120, 106636.	3.9	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.	3.3	15
156	Hybrid PIVâ€“PTV technique for measuring blood flow in rat mesenteric vessels. <i>Microvascular Research</i> , 2012, 84, 242-248.	2.5	15
157	Uptake of liquid from wet surfaces by the brush-tipped proboscis of a butterfly. <i>Scientific Reports</i> , 2014, 4, 6934.	3.3	15
158	Precise measurement of orientations of transparent ellipsoidal particles through digital holographic microscopy. <i>Optics Express</i> , 2016, 24, 598.	3.4	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.	3.3	15
160	Herb 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.	5.3	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.	5.3	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.	1.5	14

#	ARTICLE	IF	CITATIONS
163	Liquid-intake flow around the tip of butterfly proboscis. <i>Journal of Theoretical Biology</i> , 2014, 348, 113-121.	1.7	14
164	Immunological and pleiotropic effects of individual β -blockers and their relevance in cancer therapies. <i>Expert Opinion on Investigational Drugs</i> , 2016, 25, 501-505.	4.1	14
165	Three-dimensional swimming motility of microorganism in the near-wall region. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	14
166	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
167	Bio-inspired cab-roof fairing of heavy vehicles for enhancing drag reduction and driving stability. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 868-879.	6.7	14
168	Effects of oil-film layer and surfactant on the siphonal respiration and survivorship in the fourth instar larvae of <i>Aedes togoi</i> mosquito in laboratory conditions. <i>Scientific Reports</i> , 2018, 8, 5694.	3.3	14
169	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
170	Quantitative analysis of flow inside the accumulator of a rotary compressor. <i>International Journal of Refrigeration</i> , 2003, 26, 321-327.	3.4	13
171	Properties of Iopamidol-Incorporated Poly(vinyl alcohol) Microparticle as an X-ray Imaging Flow Tracer. <i>Journal of Physical Chemistry B</i> , 2011, 115, 889-901.	2.6	13
172	Cardiac outflow and wall motion in hypothermic chick embryos. <i>Microvascular Research</i> , 2011, 82, 296-303.	2.5	13
173	Time-resolved X-ray PIV technique for diagnosing opaque biofluid flow with insufficient X-ray fluxes. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 498-503.	2.4	13
174	Effect of non-Newtonian viscosity on the fluid-dynamic characteristics in stenotic vessels. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	13
175	Variation in wall shear stress in channel networks of zebrafish models. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160900.	3.4	13
176	Effect of pannus formation on the prosthetic heart valve: In vitro demonstration using particle image velocimetry. <i>PLoS ONE</i> , 2018, 13, e0199792.	2.5	13
177	Considerable drag reduction and fuel saving of a tractor-trailer using additive aerodynamic devices. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 191, 54-62.	3.9	13
178	Comparative measurements on the flow structure of a marine propeller wake between an open free surface and closed surface flows. <i>Journal of Marine Science and Technology</i> , 2005, 10, 123-130.	2.9	12
179	Large-scale PIV measurements of ventilation flow inside the passenger compartment of a real car. <i>Journal of Visualization</i> , 2011, 14, 321-329.	1.8	12
180	Effect of ambient medium viscosity on the motility and flagella motion of <i>Prorocentrum minimum</i> (Dinophyceae). <i>Journal of Plankton Research</i> , 2013, 35, 1294-1304.	1.8	12

#	ARTICLE	IF	CITATIONS
181	Estimation of turbulent kinetic energy using 4D phase-contrast MRI: Effect of scan parameters and target vessel size. <i>Magnetic Resonance Imaging</i> , 2016, 34, 715-723.	1.8	12
182	In vivodynamic analysis of water refilling in embolized xylem vessels of intact <i>Zea mays</i> leaves. <i>Annals of Botany</i> , 2016, 118, 1033-1042.	2.9	12
183	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
184	Drag reduction of a heavy vehicle using a modified boat tail with lower inclined air deflector. <i>Journal of Visualization</i> , 2017, 20, 743-752.	1.8	12
185	Digital stereo-holographic microscopy for studying three-dimensional particle dynamics. <i>Optics and Lasers in Engineering</i> , 2018, 105, 6-13.	3.8	12
186	Hydraulic Strategy of Cactus Rootâ€‘Stem Junction for Effective Water Transport. <i>Frontiers in Plant Science</i> , 2018, 9, 799.	3.6	12
187	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
188	Bioinspired Fatty Acid Amideâ€‘Based Slippery Oleogels for Shearâ€‘Stable Lubrication. <i>Advanced Science</i> , 2022, 9, e2105528.	11.2	12
189	Extracorporeal bypass model of blood circulation for the study of microvascular hemodynamics. <i>Microvascular Research</i> , 2012, 83, 372-375.	2.5	11
190	High-accuracy measurement of depth-displacement using a focus function and its cross-correlation in holographic PTV. <i>Optics Express</i> , 2014, 22, 15542.	3.4	11
191	Simultaneous measurement of bubble size, velocity and void fraction in two-phase bubbly flows with time-resolved X-ray imaging. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 424-429.	2.4	11
192	Fast Electrically Driven Capillary Rise Using Overdrive Voltage. <i>Langmuir</i> , 2015, 31, 13718-13724.	3.5	11
193	Hybrid bright-field and hologram imaging of cell dynamics. <i>Scientific Reports</i> , 2016, 6, 33750.	3.3	11
194	Penetration of a bubble through porous membranes with different wettabilities. <i>Soft Matter</i> , 2019, 15, 5819-5826.	2.7	11
195	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
196	Depletion of lubricant impregnated in a cavity of lubricant-infused surface. <i>Physics of Fluids</i> , 2021, 33, .	4.0	11
197	Dominoâ€‘like water transport on <i>Tillandsia</i> through flexible trichome wings. <i>New Phytologist</i> , 2021, 231, 1906-1922.	7.3	11
198	Effects of surface morphological structure of a brown alga <i>Undaria pinnatifida</i> on sustainable drag reduction. <i>AIP Advances</i> , 2020, 10, .	1.3	11

#	ARTICLE	IF	CITATIONS
199	Detection of Heparin in the Salivary Gland and Midgut of <i>Aedes togoi</i> . Korean Journal of Parasitology, 2014, 52, 183-188.	1.3	11
200	Water transport in polymer electrolyte membrane fuel cell: Degradation effect of gas diffusion layer. International Journal of Energy Research, 2022, 46, 9058-9070.	4.5	11
201	Characterization of a miniature thermal shear-stress sensor with backside connections. Sensors and Actuators A: Physical, 2006, 128, 305-311.	4.1	10
202	Analysis of unstable vortical structure in a propeller wake affected by a simulated hull wake. Experiments in Fluids, 2010, 48, 1121-1133.	2.4	10
203	Hemodynamics of the omphalo-mesenteric arteries in stage 18 chicken embryos and “flow-structure” relations for the microcirculation. Microvascular Research, 2010, 80, 402-411.	2.5	10
204	Effect of fluid viscosity on the liquid-feeding flow phenomena of a female mosquito. Journal of Experimental Biology, 2012, 216, 952-9.	1.7	10
205	Proposal for a new therapy for drug-resistant malaria using <i>Plasmodium</i> synthetic lethality inference. International Journal for Parasitology: Drugs and Drug Resistance, 2013, 3, 119-128.	3.4	10
206	Use of Gold Nanoparticles to Detect Water Uptake in Vascular Plants. PLoS ONE, 2014, 9, e114902.	2.5	10
207	Biophysiochemical properties of endothelial cells cultured on bio-inspired collagen films. BMC Biotechnology, 2014, 14, 61.	3.3	10
208	Association of Early Atherosclerosis with Vascular Wall Shear Stress in Hypercholesterolemic Zebrafish. PLoS ONE, 2015, 10, e0142945.	2.5	10
209	In vivo study on splenomegaly inhibition by genistein in <i>Plasmodium berghei</i> -infected mice. Parasitology International, 2015, 64, 369-376.	1.3	10
210	Functional Water Flow Pathways and Hydraulic Regulation in the Xylem Network of Arabidopsis. Plant and Cell Physiology, 2015, 56, 520-531.	3.1	10
211	Air spreading through wetted cellulose membranes: Implications for the safety function of hydraulic valves in plants. Physical Review E, 2019, 100, 032409.	2.1	10
212	Developmental toxicity triggered by benzyl alcohol in the early stage of zebrafish embryos: Cardiovascular defects with inhibited liver formation and degenerated neurogenesis. Science of the Total Environment, 2021, 752, 141631.	8.0	10
213	Effect of Farnesyltransferase Inhibitor R115777 on Mitochondria of <i>Plasmodium falciparum</i> . Korean Journal of Parasitology, 2015, 53, 421-430.	1.3	10
214	Phase-Averaged Velocity Field Measurements of Flow Around an Isolated Axial-Fan Model. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 1067-1072.	1.5	9
215	Investigation of the effectiveness of tandem oil fences under currents. Journal of Marine Science and Technology, 2004, 8, 117-125.	2.9	9
216	Stereoscopic-PIV measurement of turbulent jets issuing from a sharp-edged circular nozzle with multiple triangular tabs. Journal of Mechanical Science and Technology, 2012, 26, 2765-2771.	1.5	9

#	ARTICLE	IF	CITATIONS
217	Experimental analysis of the liquid-feeding mechanism of the butterfly <i>Pieris rapae</i> . Journal of Experimental Biology, 2014, 217, 2013-9.	1.7	9
218	Energy dissipation of graphene colloidal suspension droplets impacting on solid substrates. RSC Advances, 2014, 4, 7216.	3.6	9
219	Beneficial fluid-dynamic features of pulsatile swirling flow in 45° end-to-side anastomosis. Medical Engineering and Physics, 2015, 37, 272-279.	1.7	9
220	Flow characteristics around proximal and distal stenoses in a series of tandem stenosed vessels. Journal of Biomechanics, 2016, 49, 2960-2967.	2.1	9
221	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
222	Thermoresponsive Al ³⁺ -crosslinked poly(N-isopropylacrylamide)/alginate composite for green recovery of lithium from Li-spiked seawater. Green Energy and Environment, 2022, 7, 334-344.	8.7	9
223	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
224	Usage of CO ₂ microbubbles as flow-tracing contrast media in X-ray dynamic imaging of blood flows. Journal of Synchrotron Radiation, 2014, 21, 1160-1166.	2.4	9
225	Measurement of red blood cell aggregation using X-ray phase contrast imaging. Optics Express, 2010, 18, 26052.	3.4	8
226	Nanoparticle role on the repeatability of stimuli-responsive nanocomposites. Scientific Reports, 2015, 4, 6624.	3.3	8
227	Learning-based automatic sensing and size classification of microparticles using smartphone holographic microscopy. Analyst, The, 2019, 144, 1751-1760.	3.5	8
228	A novel approach to investigate hypoxic microenvironment during rice colonization by <i>Magnaporthe oryzae</i> . Environmental Microbiology, 2019, 21, 1151-1169.	3.8	8
229	Acoustically Excited Oscillating Bubble on a Flexible Structure and Its Energy-Harvesting Capability. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 531-537.	4.9	8
230	Three-dimensional volumetric monitoring of settling particulate matters on a leaf using digital in-line holographic microscopy. Journal of Hazardous Materials, 2021, 404, 124116.	12.4	8
231	Effects of solar geometry and operation period on stability of solar desalination systems: a review. Environmental Science and Pollution Research, 2021, 28, 65014-65032.	5.3	8
232	Detection of circulating tumor cells via an X-ray imaging technique. Journal of Synchrotron Radiation, 2013, 20, 324-331.	2.4	7
233	Interactive Ion-Mediated Sap Flow Regulation in Olive and Laurel Stems: Physicochemical Characteristics of Water Transport via the Pit Structure. PLoS ONE, 2014, 9, e98484.	2.5	7
234	Cellular imaging using phase holographic microscopy: for the study of pathophysiology of red blood cells and human umbilical vein endothelial cells. Journal of Visualization, 2014, 17, 235-244.	1.8	7

#	ARTICLE	IF	CITATIONS
235	Relationship between velocity profile and ultrasound echogenicity in pulsatile blood flows. <i>Clinical Hemorheology and Microcirculation</i> , 2015, 59, 197-209.	1.7	7
236	Holographic analysis on deformation and restoration of malaria-infected red blood cells by antimalarial drug. <i>Journal of Biomedical Optics</i> , 2015, 20, 115003.	2.6	7
237	Measurement of real pulsatile blood flow using X-ray PIV technique with CO ₂ microbubbles. <i>Scientific Reports</i> , 2015, 5, 8840.	3.3	7
238	Pine cone scale-inspired motile origami. <i>NPG Asia Materials</i> , 2017, 9, e389-e389.	7.9	7
239	Substantial drag reduction of a tractor-trailer vehicle using gap fairings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 171, 93-100.	3.9	7
240	Label-Free Sensing and Classification of Old Stored Blood. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2563-2573.	2.5	7
241	Quantitative Analysis of Helical Flow with Accuracy Using Ultrasound Speckle Image Velocimetry: In Vitro and in Vivo Feasibility Studies. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 657-669.	1.5	7
242	The Relationship between Turgor Pressure Change and Cell Hydraulics of Midrib Parenchyma Cells in the Leaves of <i>Zea mays</i> . <i>Cells</i> , 2018, 7, 180.	4.1	7
243	Effect of water microdroplet size on the removal of indoor particulate matter. <i>Building and Environment</i> , 2020, 181, 107097.	6.9	7
244	Homocysteine-induced peripheral microcirculation dysfunction in zebrafish and its attenuation by L-arginine. <i>Oncotarget</i> , 2017, 8, 58264-58271.	1.8	7
245	Post-Stenotic Recirculating Flow May Cause Hemodynamic Perforator Infarction. <i>Journal of Stroke</i> , 2016, 18, 66-72.	3.2	7
246	Flow structure of the wake behind an elliptic cylinder close to a free surface. <i>Journal of Mechanical Science and Technology</i> , 2001, 15, 1784-1793.	0.4	6
247	Nonlinear oscillations of a sessile drop on a hydrophobic surface induced by ac electrowetting. <i>Physical Review E</i> , 2014, 90, 033017.	2.1	6
248	Effect of swirling blood flow on vortex formation at post-stenosis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 175-183.	1.8	6
249	In vivo measurement of hemodynamic information in stenosed rat blood vessels using X-ray PIV. <i>Scientific Reports</i> , 2016, 6, 37985.	3.3	6
250	Comparison of the tracheal systems of <i>Anopheles sinensis</i> and <i>Aedes togoi</i> larvae using synchrotron X-ray microscopic computed tomography (respiratory system of mosquito larvae using SR- μ CT). <i>Microscopy Research and Technique</i> , 2017, 80, 985-993.	2.2	6
251	How the pine seeds attach to/detach from the pine cone scale?. <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2017, 10, 38-47.	1.1	6
252	Hemodynamic characteristics of flow around a deformable stenosis. <i>Journal of Biomechanics</i> , 2017, 61, 216-223.	2.1	6

#	ARTICLE	IF	CITATIONS
253	A Biologically-Inspired Symmetric Bidirectional Switch. PLoS ONE, 2017, 12, e0169856.	2.5	6
254	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
255	Multifunctional biopolymer coatings inspired by loach skin. Progress in Organic Coatings, 2021, 158, 106383.	3.9	6
256	Evaluation of recursive PIV algorithm with correlation based correction method using various flow images. Journal of Mechanical Science and Technology, 2003, 17, 409-421.	0.4	5
257	POD analysis of near-wake structures of an elliptic cylinder adjacent to a free surface. Journal of Visualization, 2004, 7, 179-186.	1.8	5
258	Hollow microcapsules for sensing micro-scale flow motion in X-ray imaging method. Microfluidics and Nanofluidics, 2009, 6, 419-424.	2.2	5
259	Evaluation of wind environment around a residential complex using a PIV velocity field measurement technique. Environmental Fluid Mechanics, 2009, 9, 655-668.	1.6	5
260	Contrast enhancement of speckle patterns from blood in synchrotron X-ray imaging. Journal of Biomechanics, 2009, 42, 449-454.	2.1	5
261	POD analysis on the sphere wake at a subcritical Reynolds number. Journal of Visualization, 2010, 13, 311-318.	1.8	5
262	Thermal effect on heart rate and hemodynamics in vitelline arteries of stage 18 chicken embryos. Journal of Biomechanics, 2010, 43, 3217-3221.	2.1	5
263	Self-Assembly Change by Gold Nanoparticle Growth. Journal of Physical Chemistry C, 2011, 115, 22301-22308.	3.1	5
264	Critical role of plectin in anti-migration potential of curcumin. Food Science and Biotechnology, 2011, 20, 1615-1624.	2.6	5
265	Polymeric self-assembly changes by surface-modified and in-situ-grown nanoparticles. Polymer, 2013, 54, 1004-1009.	3.8	5
266	Advantageous swirling flow in 45° end-to-side anastomosis. Experiments in Fluids, 2014, 55, 1.	2.4	5
267	Hierarchical nanoparticle clusters induced by block copolymer self-assembly. Soft Matter, 2014, 10, 3897.	2.7	5
268	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
269	Fabrication of Triple-parted Stomata-inspired Membrane with Stimulus-responsive Functions. Scientific Reports, 2016, 6, 21258.	3.3	5
270	Peculiar liquid-feeding and pathogen transmission behavior of Aedes togoi and comparison with Anopheles sinensis. Scientific Reports, 2016, 6, 20464.	3.3	5

#	ARTICLE	IF	CITATIONS
271	Pressure-driven spontaneous ion concentration polarization using an ion-selective membrane. <i>Analytical Biochemistry</i> , 2018, 557, 13-17.	2.4	5
272	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
273	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
274	Shear-driven drainage of lubricant in a spherical cavity of lubricant-infused surface. <i>Physics of Fluids</i> , 2021, 33, .	4.0	5
275	Fabrication of a micro-riblet film and drag reduction effects on curved objects. , 0, , .		4
276	Near-wake flow structure of elliptic cylinders close to a free surface: effect of cylinder aspect ratio. <i>Experiments in Fluids</i> , 2004, 36, 748-758.	2.4	4
277	Experimental analysis of flow fields inside intake heads of a vacuum cleaner. <i>Journal of Mechanical Science and Technology</i> , 2005, 19, 894-904.	1.5	4
278	Dynamic PIV measurement of a compressible flow issuing from an airbag inflator nozzle. <i>Journal of Thermal Science</i> , 2006, 15, 377-381.	1.9	4
279	X-ray CT and histological imaging of xylem vessels organization in <i>Mimosa pudica</i> . <i>Microscopy Research and Technique</i> , 2013, 76, 1204-1212.	2.2	4
280	In vivo measurement of blood flow in a micro-scale stenosis model generated by laser photothermal blood coagulation. <i>IET Systems Biology</i> , 2013, 7, 50-55.	1.5	4
281	Drag-reducing underbody flow of a heavy vehicle with side skirts. <i>Journal of Visualization</i> , 2017, 20, 369-378.	1.8	4
282	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
283	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
284	Investigation of water transport around the root for a plant using X-ray imaging technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107159.	5.0	4
285	Effectual removal of indoor ultrafine PM using submicron water droplets. <i>Journal of Environmental Management</i> , 2021, 296, 113166.	7.8	4
286	Enhanced air stability of ridged superhydrophobic surface with nanostructure. <i>AIP Advances</i> , 2021, 11, .	1.3	4
287	Experimental investigation of flow characteristics of a magnetohydrodynamic (MHD) duct of fan-shaped cross section. <i>Journal of Mechanical Science and Technology</i> , 1997, 11, 547-555.	0.4	3
288	Effect of suction nozzle modification on the performance and aero-acoustic noise of a vacuum cleaner. <i>Journal of Mechanical Science and Technology</i> , 2004, 18, 1648-1660.	0.4	3

#	ARTICLE	IF	CITATIONS
289	THE FEASIBILITY OF FLUORESCENT NANO-PARTICLE FOR BIOLOGICAL FLOW ANALYSIS IN A MICROCHANNEL. International Journal of Modern Physics B, 2006, 20, 4505-4510.	2.0	3
290	Effect of arsenic absorption on the waterâ€refilling speed of <i>Pteris cretica</i>. Microscopy Research and Technique, 2011, 74, 517-522.	2.2	3
291	Imaging efficiency of an Xâ€ray contrast agentâ€incorporated polymeric microparticle. Contrast Media and Molecular Imaging, 2011, 6, 437-448.	0.8	3
292	Jet flow characteristics of sinusoidal wavy nozzles. Journal of Mechanical Science and Technology, 2012, 26, 4007-4016.	1.5	3
293	The Internal Structure of Macroporous Membranes and Transport of Surface-Modified Nanoparticles. Microscopy and Microanalysis, 2015, 21, 936-945.	0.4	3
294	Dehydration-mediated cluster formation of nanoparticles. Scientific Reports, 2015, 5, 11383.	3.3	3
295	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
296	Optimal Design of Needle Array for Effective Drug Delivery. Annals of Biomedical Engineering, 2018, 46, 2012-2022.	2.5	3
297	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
298	Hydrodynamic Study on the â€Stop-and-Accelerationâ€Pattern of Refilling Flow at Perforation Plates by Using a Xylem-Inspired Channel. Frontiers in Plant Science, 2019, 9, 1931.	3.6	3
299	Accuracy evaluation of blood flow distribution in the Fontan circulation: effects of resolution and velocity noise. Journal of Visualization, 2019, 22, 245-257.	1.8	3
300	Flow induced stress on vulnerable stenosis in tandem stenosed vessels. Physics of Fluids, 2020, 32, 101904.	4.0	3
301	NO-dependent attenuation of TPA-induced immunoinflammatory skin changes in Balb/c mice by pindolol, heptaminol or ATRA, but not by verapamil. Oncotarget, 2016, 7, 47576-47585.	1.8	3
302	Spectrochemical analysis of slippery loach skin and kelp using FTIR imaging. Vibrational Spectroscopy, 2022, 118, 103338.	2.2	3
303	Fabrication of Compound Refractive X-ray Lenses Using LIGA Process and Performance Tests. AIP Conference Proceedings, 2007, , .	0.4	2
304	Experimental study on wind breakage of kiwifruit shoots (<i>Actinidia deliciosa</i> Planch.). Journal of Horticultural Science and Biotechnology, 2008, 83, 309-312.	1.9	2
305	Inertial migration of spherical elastic phytoplankton in pipe flow. Experiments in Fluids, 2014, 55, 1.	2.4	2
306	Optimum periodicity of repeated contractile actions applied in mass transport. Scientific Reports, 2015, 5, 7800.	3.3	2

#	ARTICLE	IF	CITATIONS
307	Structural design of a double-layered porous hydrogel for effective mass transport. Biomicrofluidics, 2015, 9, 024104.	2.4	2
308	Study on the deformation of endothelial cells using a bio-inspired in vitro disease model. Microvascular Research, 2015, 98, 172-182.	2.5	2
309	Smart self-cleaning cover glass for automotive miniature cameras. , 2016, , .		2
310	SPECT/CT analysis of splenic function in genistein-treated malaria-infected mice. Experimental Parasitology, 2016, 170, 10-15.	1.2	2
311	Synchrotron x-ray imaging of acoustic cavitation bubbles induced by acoustic excitation. Measurement Science and Technology, 2017, 28, 045301.	2.6	2
312	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
313	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
314	Three-dimensional rotational dynamics of prolate particles in a circular tube. Experiments in Fluids, 2018, 59, 1.	2.4	2
315	Nano/Micro Natural Patterns of Hydrogels against Water Loss. ACS Applied Bio Materials, 2020, 3, 1293-1304.	4.6	2
316	Adaptive hybrid flow measurement of color Doppler and speckle image velocimetry. Ultrasonics, 2020, 104, 106093.	3.9	2
317	Flow induced deformation of vulnerable stenosis under pulsatile flow condition. Physical Review Fluids, 2020, 5, .	2.5	2
318	Foliar Uptake of the Potentially Toxic Elements in Garlic Chive Leaves. Frontiers in Environmental Science, 2021, 9, .	3.3	2
319	Effect of the flow structure on the indoor deposition of particulate matter. Journal of Visualization, 0, , 1.	1.8	2
320	Effective Icephobicity of Silicone Oil-Infused Oleamide-Polydimethylsiloxane with Enhanced Lubrication Lifetime. ACS Omega, 2022, 7, 21156-21162.	3.5	2
321	Dynamic motion of a butterfly <i>Argyrotaenia laodice</i> in ground take-off flight. Journal of Mechanical Science and Technology, 2013, 27, 1763-1769.	1.5	1
322	Wind tunnel experiment for wind breakage of <i>Actinidia deliciosa</i> P. shoots. Journal of Mechanical Science and Technology, 2013, 27, 3113-3121.	1.5	1
323	Surface-Activated Nanoparticles for Controlled Light-Responsiveness. Advanced Functional Materials, 2013, 23, 2212-2217.	14.9	1
324	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

#	ARTICLE	IF	CITATIONS
325	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
326	Superb feeding behavior of <i>Aedes albopictus</i> transmitting Zika virus. <i>PLoS ONE</i> , 2017, 12, e0184871.	2.5	1
327	Measurement of pressure around porous membranes using a cell pressure probe. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 128, 214-219.	5.0	1
328	Flattenedâ€œTop Domical Droplet Formed by a Poly(pyrrole) Membrane. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800707.	3.6	1
329	Medical X-ray PIV technique for visualizing quantitative velocity field distributions of blood flows. , 2007, , 742-745.		1
330	Vibrational characteristics of sphere model installed in wind tunnel test section. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 2461-2465.	1.5	0
331	Protection of vessel permeability by genistein against lipopolysaccharide induced acute inflammation in a chick embryo chorioallantoic membrane model. <i>Food Science and Biotechnology</i> , 2013, 22, 1-8.	2.6	0
332	Collective ordering of microscale matters in natural analogy. <i>Scientific Reports</i> , 2015, 5, 10790.	3.3	0
333	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
334	Crossly charged microfluidic device for spontaneous filtration without an external power supply. <i>Analytical Biochemistry</i> , 2019, 577, 21-25.	2.4	0
335	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
336	Visualization of Wetting Phenomena of Microdroplets Impinging on Superhydrophobic Textured Surfaces with anisotropically arrayed pillars. <i>Journal of the Korean Society of Visualization</i> , 2012, 10, 39-40.	0.1	0
337	Immunological consequences of ageing microvascular hemodynamic changes in view of cancer development and treatment. <i>Oncotarget</i> , 2017, 8, 69047-69061.	1.8	0
338	Nanoscale element behavior in a continuum. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1033-1041.	2.4	0