Takuji Ishikawa

List of Publications by Year
in descending order

294	7,309	60835 43	72643 76
papers	citations	h-index	g-index

336	336	336	5692
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrodynamic interaction of two swimming model micro-organisms. Journal of Fluid Mechanics, 2006, 568, 119.	3.5	401
2	DancingVolvox: Hydrodynamic Bound States of Swimming Algae. Physical Review Letters, 2009, 102, 168101.	8.0	309
3	Product representation of potential energy surfaces. Journal of Chemical Physics, 1996, 104, 7974-7984.	3.1	258
4	Do mussels take wooden steps to deep-sea vents?. Nature, 2000, 403, 725-726.	36.2	257
5	The prostaglandin E2 EP1 receptor mediates pain perception and regulates blood pressure. Journal of Clinical Investigation, 2001, 107, 325-331.	8.2	201
6	Coherent Structures in Monolayers of Swimming Particles. Physical Review Letters, 2008, 100, 088103.	8.0	175
7	In vitro blood flow in a rectangular PDMS microchannel: experimental observations using a confocal micro-PIV system. Biomedical Microdevices, 2008, 10, 153-167.	3.0	171
8	Diffusion of swimming model micro-organisms in a semi-dilute suspension. Journal of Fluid Mechanics, 2007, 588, 437-462.	3.5	133
9	Can temporal fluctuation in spatial wall shear stress gradient initiate a cerebral aneurysm? A proposed novel hemodynamic index, the gradient oscillatory number (GON). Journal of Biomechanics, 2009, 42, 550-554.	2.1	133
10	The rheology of a semi-dilute suspension of swimming model micro-organisms. Journal of Fluid Mechanics, 2007, 588, 399-435.	3.5	131
11	Hydrodynamic Interactions between Two Swimming Bacteria. Biophysical Journal, 2007, 93, 2217-2225.	0.5	125
12	Development of coherent structures in concentrated suspensions of swimming model micro-organisms. Journal of Fluid Mechanics, 2008, 615, 401-431.	3.5	122
13	Interaction of two swimming Paramecia. Journal of Experimental Biology, 2006, 209, 4452-4463.	1.7	121
14	Direct Measurement of Transition Frequencies in IsolatedpÂ¯He+Atoms, and NewCPT-Violation Limits on the Antiproton Charge and Mass. Physical Review Letters, 2003, 91, 123401.	8.0	112
15	Suspension biomechanics of swimming microbes. Journal of the Royal Society Interface, 2009, 6, 815-834.	3.4	108
16	Orientational order in concentrated suspensions of spherical microswimmers. Physics of Fluids, 2011, 23, .	3.9	107
17	Hydrodynamic entrapment of bacteria swimming near a solid surface. Physical Review E, 2010, 82, 056309.	2.1	103
18	Red blood cell motions in high-hematocrit blood flowing through a stenosed microchannel. Journal of Biomechanics, 2009, 42, 838-843.	2.1	98

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19	Radial dispersion of red blood cells in blood flowing through glass capillaries: The role of hematocrit and geometry. Journal of Biomechanics, 2008, 41, 2188-2196.	2.1	87
20	Human red blood cell behavior under homogeneous extensional flow in a hyperbolic-shaped microchannel. Biomicrofluidics, 2013, 7, 54110.	2.2	79
21	Kohn Anomaly inMgB2by Inelastic X-Ray Scattering. Physical Review Letters, 2004, 92, 197004.	8.0	77
22	Laser measurements of the density shifts of resonance lines in antiprotonic helium atoms and stringent constraint on the antiproton charge and mass. Physical Review A, 1999, 59, 223-229.	2.5	74
23	Modeling of hemodynamics arising from malaria infection. Journal of Biomechanics, 2010, 43, 1386-1393.	2.1	74
24	Asymmetry of red blood cell motions in a microchannel with a diverging and converging bifurcation. Biomicrofluidics, 2011, 5, 44120-4412015.	2.2	71
25	Measurement of Individual Red Blood Cell Motions Under High Hematocrit Conditions Using a Confocal Micro-PTV System. Annals of Biomedical Engineering, 2009, 37, 1546-1559.	2.6	66
26	Energy Transport in a Concentrated Suspension of Bacteria. Physical Review Letters, 2011, 107, 028102.	8.0	64
27	Separation of cancer cells from a red blood cell suspension using inertial force. Lab on A Chip, 2012, 12, 4336.	6.1	64
28	Antral recirculation in the stomach during gastric mixing. American Journal of Physiology - Renal Physiology, 2013, 304, G536-G542.	3.5	60
29	Tension of red blood cell membrane in simple shear flow. Physical Review E, 2012, 86, 056321.	2.1	58
30	A Novel Oxovanadium(V)-Induced Oxidation of Organoaluminum Compounds. Highly Selective Coupling of Organic Substituents on Aluminum. Journal of the American Chemical Society, 1998, 120, 5124-5125.	14.6	55
31	Oxygen supersaturated fluid using fine micro/nanobubbles. International Journal of Nanomedicine, 2014, 9, 4495.	6.5	55
32	Clonal structure and flowering traits of a bamboo [Phyllostachys pubescens (Mazel) Ohwi] stand grown from a simultaneous flowering as revealed by AFLP analysis. Molecular Ecology, 2004, 13, 2017-2021.	3.6	54
33	Fluid particle diffusion through high-hematocrit blood flow within a capillary tube. Journal of Biomechanics, 2011, 44, 170-175.	2.1	54
34	Laser-induced resonant transition at 470.724 nm in thev=n-l-1=2 cascade of metastable antiprotonic helium atoms. Physical Review A, 1995, 52, 4266-4269.	2.5	53
35	Asymmetry of blood flow and cancer cell adhesion in a microchannel with symmetric bifurcation and confluence. Biomedical Microdevices, 2011, 13, 159-167.	3.0	52
36	Active particles in periodic lattices. New Journal of Physics, 2017, 19, 115001.	2.9	52

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37	Excitation and Decay of the Isovector Giant Monopole Resonances via thePb208(He3,tp)Reaction at 410 MeV. Physical Review Letters, 2003, 90, 202501.	8.0	51
38	Fluid particle diffusion in a semidilute suspension of model micro-organisms. Physical Review E, 2010, 82, 021408.	2.1	51
39	Inertial migration of cancer cells in blood flow in microchannels. Biomedical Microdevices, 2012, 14, 25-33.	3.0	49
40	Computational study on effect of red blood cells on primary thrombus formation. Thrombosis Research, 2008, 123, 114-121.	1.7	48
41	Chiral Helicity Induced by Hydrogen Bonding and Chirality of Podand Histidyl Moieties. Organic Letters, 2001, 3, 1459-1461.	4.8	46
42	A threeâ€dimensional particle simulation of the formation and collapse of a primary thrombus. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 488-500.	2.2	46
43	Flow of a circulating tumor cell and red blood cells in microvessels. Physical Review E, 2015, 92, 063011.	2.1	46
44	Immotile cilia mechanically sense the direction of fluid flow for left-right determination. Science, 2023, 379, 66-71.	20.9	46
45	Transport phenomena of microbial flora in the small intestine with peristalsis. Journal of Theoretical Biology, 2011, 279, 63-73.	1.7	45
46	Reorientation of a Nonspherical Capsule in Creeping Shear Flow. Physical Review Letters, 2012, 108, 138102.	8.0	45
47	Comparison between spring network models and continuum constitutive laws: Application to the large deformation of a capsule in shear flow. Physical Review E, 2011, 83, 041918.	2.1	42
48	Simple mechanosense and response of cilia motion reveal the intrinsic habits of ciliates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3231-3236.	7.6	42
49	Oxovanadium(V)-Induced Oxidative Coupling of Organolithium and -magnesium Compounds. Organometallics, 1998, 17, 5713-5716.	2.6	41
50	Low voltage pulses can induce apoptosis. Cancer Letters, 2008, 269, 93-100.	7.3	40
51	Particle-Based Methods for Multiscale Modeling of Blood Flow in the Circulation and in Devices: Challenges and Future Directions. Annals of Biomedical Engineering, 2010, 38, 1225-1235.	2.6	40
52	Leukocyte margination at arteriole shear rate. Physiological Reports, 2014, 2, e12037.	1.8	40
53	Blood oxygenation using microbubble suspensions. European Biophysics Journal, 2012, 41, 571-578.	2.3	39
54	Shape matters: Near-field fluid mechanics dominate the collective motions of ellipsoidal squirmers. Physical Review E, 2015, 92, 063027.	2.1	39

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55	Swimming mediated by ciliary beating: comparison with a squirmer model. Journal of Fluid Mechanics, 2019, 874, 774-796.	3.5	39
56	Axisymmetric polydimethysiloxane microchannels for in vitro hemodynamic studies. Biofabrication, 2009, 1, 035005.	7.4	38
57	A novel catalytic system for oxygenation with molecular oxygen induced by transition metal complexes with a multidentate N-heterocyclic podand ligand. Journal of Molecular Catalysis A, 1996, 113, 117-130.	4.8	36
58	Simulation of platelet adhesion and aggregation regulated by fibrinogen and von Willebrand factor. Thrombosis and Haemostasis, 2008, 99, 108-115.	3.5	36
59	Numerical methods for simulating blood flow at macro, micro, and multi scales. Journal of Biomechanics, 2016, 49, 2221-2228.	2.1	36
60	Search for neutron-rich Î› hypernuclei in the (Kstoppedâˆ’, Ï€+) reaction. Nuclear Physics A, 1996, 602, 327-333.	1.6	35
61	Hydrogen-Assisted Laser-Induced Resonant Transitions between Metastable States of Antiprotonic Helium Atoms. Physical Review Letters, 1997, 78, 1671-1674.	8.0	35
62	Effect of non-Newtonian property of blood on flow through a stenosed tube. Fluid Dynamics Research, 1998, 22, 251-264.	1.3	35
63	Mouse respiratory cilia with the asymmetric axonemal structure on sparsely distributed ciliary cells can generate overall directional flow. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1081-1087.	3.5	35
64	Laser-induced resonant transitions in thev=nâˆ’lâˆ’1=2ÂandÂ3metastable cascades of antiprotonicHe3atoms. Physical Review A, 1996, 53, R1931-R1934.	2.5	34
65	Observation of double-resonant laser-induced transitions in the v=n-l-1=2 metastable cascade of antiprotonicHe4atoms. Physical Review A, 1997, 55, R1-R4.	2.5	34
66	High-precision structural studies of the antiprotonic helium atom p-|Am4He+by observing laser resonances with Î”v=Î”(n-l-1)=2. Physical Review A, 1997, 55, R3295-R3298.	2.5	34
67	Inflow into Saccular Cerebral Aneurysms at Arterial Bends. Annals of Biomedical Engineering, 2008, 36, 1489-1495.	2.6	34
68	Rheology of a dense suspension of spherical capsules under simple shear flow. Journal of Fluid Mechanics, 2016, 786, 110-127.	3.5	34
69	Cell adhesion during bullet motion in capillaries. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H395-H403.	3.4	34
70	The importance of parent artery geometry in intra-aneurysmal hemodynamics. Medical Engineering and Physics, 2008, 30, 774-782.	1.8	32
71	Structure of dimeric axonemal dynein in cilia suggests an alternative mechanism of force generation. Cytoskeleton, 2014, 71, 412-422.	2.2	32
72	Margination of red blood cells infected by Plasmodium falciparum in a microvessel. Journal of Biomechanics, 2011, 44, 1553-1558.	2.1	30

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73	Fluid mechanics of swimming bacteria with multiple flagella. Physical Review E, 2014, 89, 042704.	2.1	30
74	Deformation of a spherical capsule under oscillating shear flow. Journal of Fluid Mechanics, 2015, 762, 288-301.	3.5	30
75	Hemodynamics in the Microcirculation and in Microfluidics. Annals of Biomedical Engineering, 2015, 43, 238-257.	2.6	30
76	Upward swimming of a sperm cell in shear flow. Physical Review E, 2016, 93, 032402.	2.1	30
77	Hemodynamic Analysis of Microcirculation in Malaria Infection. Annals of Biomedical Engineering, 2009, 37, 702-709.	2.6	29
78	Quantification of red blood cell deformation at high-hematocrit blood flow in microvessels. Journal of Biomechanics, 2012, 45, 2684-2689.	2.1	29
79	Development of a biologically inspired locomotion system for a capsule endoscope. International Journal of Medical Robotics and Computer Assisted Surgery, 2009, 5, 471-478.	2.4	27
80	Motility and phototaxis of Gonium , the simplest differentiated colonial alga. Physical Review E, 2020, 101, 022416.	2.1	27
81	Isotope effects on delayed annihilation time spectra of antiprotonic helium atoms in a low-temperature gas. Physical Review A, 1996, 53, 2108-2117.	2.5	26
82	Swimming microorganisms acquire optimal efficiency with multiple cilia. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30201-30207.	7.6	26
83	Computational Blood Flow Analysis -New Trends and Methods. Journal of Biomechanical Science and Engineering, 2006, 1, 29-50.	0.3	24
84	Activation of caspases and apoptosis in response to low-voltage electric pulses. Oncology Reports, 2010, 23, 1425-33.	2.6	24
85	Vertical dispersion of model microorganisms in horizontal shear flow. Journal of Fluid Mechanics, 2012, 705, 98-119.	3.5	24
86	Entrapment of Ciliates at the Water-Air Interface. PLoS ONE, 2013, 8, e75238.	2.5	24
87	Lateral migration of a spherical capsule near a plane wall in Stokes flow. Physical Review E, 2014, 90, 043009.	2.1	24
88	Laser resonance studies of the interactions of metastable antiprotonic helium atomcules p4He+ with surrounding H2 molecules. Chemical Physics Letters, 1997, 265, 137-144.	2.7	23
89	Deposition of micrometer particles in pulmonary airways during inhalation and breath holding. Journal of Biomechanics, 2012, 45, 1809-1815.	2.1	23
90	Computational study on effect of stenosis on primary thrombus formation. Biorheology, 2011, 48, 99-114.	1.1	22

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91	Shear-induced diffusion of red blood cells in a semi-dilute suspension. Journal of Fluid Mechanics, 2013, 724, 154-174.	3.5	22
92	Lateral migration of a capsule in a parabolic flow. Journal of Biomechanics, 2016, 49, 2249-2254.	2.1	22
93	Patient-specific modelling of pulmonary airflow using GPU cluster for the application in medical practice. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 771-778.	1.7	21
94	Computational study on thrombus formation regulated by platelet glycoprotein and blood flow shear. Microvascular Research, 2013, 89, 95-106.	2.5	21
95	Separation of motile bacteria using drift velocity in a microchannel. Lab on A Chip, 2014, 14, 1023-1032.	6.1	21
96	Collapse of generalized Euler and surface quasigeostrophic point vortices. Physical Review E, 2018, 98, 023110.	2.1	20
97	Bayesian Inference of Forces Causing Cytoplasmic Streaming in Caenorhabditis elegans Embryos and Mouse Oocytes. PLoS ONE, 2016, 11, e0159917.	2.5	19
98	Nodal cilia-driven flow: Development of a computational model of the nodal cilia axoneme. Journal of Biomechanics, 2017, 61, 242-249.	2.1	19
99	Stability of dancingVolvox. Journal of Fluid Mechanics, 2020, 903, .	3.5	19
100	Elasto-hydrodynamic interaction of two swimming spermatozoa. Physics of Fluids, 2020, 32, .	3.9	19
101	Cilia and centrosomes: Ultrastructural and mechanical perspectives. Seminars in Cell and Developmental Biology, 2021, 110, 61-69.	5.4	19
102	Computational analysis on the mechanical interaction between a thrombus and red blood cells: Possible causes of membrane damage of red blood cells at microvessels. Medical Engineering and Physics, 2012, 34, 1411-1420.	1.8	18
103	Rheology of a concentrated suspension of spherical squirmers: monolayer in simple shear flow. Journal of Fluid Mechanics, 2021, 914, .	3.5	18
104	Quenching of metastable states of antiprotonic helium atoms by collisions with H2 molecules. Journal of Chemical Physics, 1998, 109, 424-431.	3.1	17
105	Membrane tension of red blood cells pairwisely interacting in simple shear flow. Journal of Biomechanics, 2013, 46, 548-553.	2.1	17
106	Numerical analysis of a red blood cell flowing through a thin micropore. Physical Review E, 2014, 89, 013008.	2.1	17
107	Relationship between gastric motility and liquid mixing in the stomach. American Journal of Physiology - Renal Physiology, 2016, 311, G1114-G1121.	3.5	17
108	Reorientation of a single red blood cell during sedimentation. Journal of Fluid Mechanics, 2016, 806, 102-128.	3.5	17

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109	Vulnerability of the skin barrier to mechanical rubbing. International Journal of Pharmaceutics, 2020, 587, 119708.	5.4	17
110	Effect of Fluid Viscosity on the Cilia-Generated Flow on a Mouse Tracheal Lumen. Annals of Biomedical Engineering, 2017, 45, 1048-1057.	2.6	16
111	Influence of cellular shape on sliding behavior of ciliates. Communicative and Integrative Biology, 2018, 11, e1506666.	1.5	16
112	Hydrodynamic interaction of two unsteady model microorganisms. Journal of Theoretical Biology, 2010, 267, 252-263.	1.7	15
113	Rheotaxis and migration of an unsteady microswimmer. Journal of Fluid Mechanics, 2022, 930, .	3.5	15
114	A Rule-Based Computational Study on the Early Progression of Intracranial Aneurysms Using Fluid-Structure Interaction: Comparison between Straight Model and Curved Model. Journal of Biomechanical Science and Engineering, 2008, 3, 124-137.	0.3	14
115	An internet-based wearable watch-over system for elderly and disabled utilizing EMG and accelerometer. Technology and Health Care, 2009, 17, 121-131.	1.1	14
116	A full GPU implementation of a numerical method for simulating capsule suspensions. Journal of Biomechanical Science and Engineering, 2014, 9, 14-00039-14-00039.	0.3	14
117	Simulation of the nodal flow of mutant embryos with a small number of cilia: comparison of mechanosensing and vesicle transport hypotheses. Royal Society Open Science, 2018, 5, 180601.	2.5	14
118	Swimming of Spermatozoa in a Maxwell Fluid. Micromachines, 2019, 10, 78.	3.0	14
119	Swimming of ciliates under geometric constraints. Journal of Applied Physics, 2019, 125, .	2.3	14
120	Active droplet driven by a collective motion of enclosed microswimmers. Physical Review E, 2020, 102, 022603.	2.1	14
121	Hydrodynamic Phase Locking in Mouse Node Cilia. Physical Review Letters, 2013, 110, 248107.	8.0	13
122	Stability of a Dumbbell Micro-Swimmer. Micromachines, 2019, 10, 33.	3.0	13
123	Bacterial biomechanicsâ€"From individual behaviors to biofilm and the gut flora. APL Bioengineering, 2020, 4, 041504.	6.0	13
124	Near-wall rheotaxis of the ciliate Tetrahymena induced by the kinesthetic sensing of cilia. Science Advances, 2021, 7, eabi5878.	10.9	13
125	Hydrodynamic interaction between two red blood cells in simple shear flow: its impact on the rheology of a semi-dilute suspension. Computational Mechanics, 2014, 54, 933-941.	4.0	12
126	Microscale Flow Dynamics of Red Blood Cells in Microchannels: An Experimental and Numerical Analysis. Computational Methods in Applied Sciences (Springer), 2011, , 297-309.	0.0	12

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127	Vortex enhancement in blood flow through stenosed and locally expanded tubes. Fluid Dynamics Research, 2000, 26, 35-52.	1.3	11
128	Development of a Wearable Surveillance System Using Gait Analysis. Telemedicine Journal and E-Health, 2007, 13, 703-714.	3.0	11
129	Shear-induced fluid-tracer diffusion in a semidilute suspension of spheres. Physical Review E, 2008, 77, 041402.	2.1	11
130	Asymmetric rotational stroke in mouse node cilia during left-right determination. Physical Review E, 2013, 87, 050701.	2.1	11
131	Torque-induced precession of bacterial flagella. Scientific Reports, 2016, 5, 18488.	3.4	11
132	Nutrient uptake in a suspension of squirmers. Journal of Fluid Mechanics, 2016, 789, 481-499.	3.5	11
133	Orientational relaxation time of bottom-heavy squirmers in a semi-dilute suspension. Journal of Theoretical Biology, 2007, 249, 296-306.	1.7	10
134	A realistic simulation of saccular cerebral aneurysm formation: focussing on a novel haemodynamic index, the gradient oscillatory number. International Journal of Computational Fluid Dynamics, 2009, 23, 583-593.	1.3	10
135	Biomechanics of Tetrahymena escaping from a dead end. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172368.	2.8	10
136	Reduced-fat Frescal sheep milk cheese with inulin: a first report about technological aspects and sensory evaluation. Journal of Dairy Research, 2019, 86, 368-373.	1.5	10
137	The shape-effect of flagella is more important than bottom-heaviness on passive gravitactic orientation in Chlamydomonas reinhardtii. Journal of Experimental Biology, 2020, 223, .	1.7	10
138	Shape matters: entrapment of a model ciliate at interfaces. Journal of Fluid Mechanics, 2020, 892, .	3.5	10
139	Parallel Simulation of Cellular Flow in Microvessels Using a Particle Method. Journal of Biomechanical Science and Engineering, 2012, 7, 57-71.	0.3	9
140	Dispersion of model microorganisms swimming in a nonuniform suspension. Physical Review E, 2014, 90, 033008.	2.1	9
141	Inhomogeneous distribution of Chlamydomonas in a cylindrical container with a bubble plume. Biology Open, 2016, 5, 154-160.	1.2	9
142	Mixing and pumping functions of the intestine of zebrafish larvae. Journal of Theoretical Biology, 2017, 419, 152-158.	1.7	9
143	Effect of Wall Motion on Arterial Wall Shear Stress. Journal of Biomechanical Science and Engineering, 2007, 2, 58-68.	0.3	8
144	Formation of Saccular Cerebral Aneurysms May Require Proliferation of the Arterial Wall: Computational Investigation. Journal of Biomechanical Science and Engineering, 2008, 3, 431-442.	0.3	8

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145	Effects of unique biomedical education programs for engineers: REDEEM and ESTEEM projects. American Journal of Physiology - Advances in Physiology Education, 2009, 33, 91-97.	1.7	8
146	Development of a Particle Interaction Kernel for Convection-Diffusion Scalar Transport Equation. Numerical Heat Transfer, Part B: Fundamentals, 2011, 60, 96-115.	0.9	8
147	Fluctuation of cilia-generated flow on the surface of the tracheal lumen. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L144-L151.	3.0	8
148	Expanding Imaging Capabilities for Microfluidics: Applicability of Darkfield Internal Reflection Illumination (DIRI) to Observations in Microfluidics. PLoS ONE, 2015, 10, e0116925.	2.5	8
149	Shearâ€induced platelet aggregation and distribution of thrombogenesis at stenotic vessels. Microcirculation, 2017, 24, e12355.	1.9	8
150	Passive swimming of a microcapsule in vertical fluid oscillation. Physical Review E, 2018, 98, 023108.	2.1	8
151	Rheology of a dilute suspension of deformable microswimmers. Physics of Fluids, 2020, 32, .	3.9	8
152	Patient-specific Morphological and Blood Flow Analysis of Pulmonary Artery in the Case of Severe Deformations of the Lung due to Pneumothorax. Journal of Biomechanical Science and Engineering, 2010, 5, 485-498.	0.3	7
153	Particle selectivity of filtering by C. elegans. Theoretical and Applied Mechanics Letters, 2019, 9, 61-65.	2.9	7
154	Bacterial detachment from a wall with a bump line. Physical Review E, 2019, 99, 023104.	2.1	7
155	Mechanical roles of anterograde and retrograde intestinal peristalses after feeding in a larval fish (Danio rerio). American Journal of Physiology - Renal Physiology, 2020, 318, G1013-G1021.	3.5	7
156	Development of automatic respiration monitoring for home-care patients of respiratory diseases with therapeutic aids. IFMBE Proceedings, 2009, , 1117-1120.	0.0	7
157	Pairwise scattering and bound states of spherical microorganisms. Physical Review Fluids, 2022, 7, .	2.6	7
158	From Passive Motion of Capsules to Active Motion of Cells. Journal of Biomechanical Science and Engineering, 2006, 1, 51-68.	0.3	6
159	Analysis of Destruction Process of the Primary Thrombus Under the Influence of the Blood Flow. Journal of Biomechanical Science and Engineering, 2007, 2, 34-44.	0.3	6
160	ATP Transport in Saccular Cerebral Aneurysms at Arterial Bends. Annals of Biomedical Engineering, 2010, 38, 927-934.	2.6	6
161	A Stepping Microrobot Controlled by Flow Oscillations. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.6	6
162	Deformation of a micro-torque swimmer. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150604.	2.1	6

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163	Zigzag instability of biased pusher swimmers. Europhysics Letters, 2021, 133, 44002.	2.0	6
164	The bubble-induced population dynamics of fermenting yeasts. Journal of the Royal Society Interface, 2020, 17, 20200735.	3.4	6
165	Relationship of transmural electrical potential difference to changes in gastric mucosal permeability to H+ and blood flow. American Journal of Surgery, 1978, 135, 110-114.	1.7	5
166	Development of a Wearable System Module for Monitoring Physical and Mental Workload. Telemedicine Journal and E-Health, 2008, 14, 939-945.	3.0	5
167	Microscale Flow Dynamics of Red Blood Cells in Microchannels: An Experimental and Numerical Analysis. , 2009, , 203-220.		5
168	Confocal Micro-PIV/PTV Measurements of the Blood Flow in Micro-channels. , 2013, , 131-151.		5
169	A numerical model of a red blood cell infected by Plasmodium falciparum malaria: coupling cell mechanics with ligand-receptor interactions. Science and Technology of Advanced Materials, 2016, 17, 454-461.	6.1	5
170	Biaxial fluid oscillations can propel a microcapsule swimmer in an arbitrary direction. Physical Review E, 2018, 98, .	2.1	5
171	Hydrodynamic interaction of two deformable torque swimmers. Journal of Fluid Mechanics, 2020, 894, .	3.5	5
172	Instability of an active fluid jet. Physical Review Fluids, 2022, 7, .	2.6	5
173	Modeling of ventilation system for vehicle tunnels by means of bond graph. , 0, , .		4
174	Evaluation of Critical Velocity Employed to Prevent the Backlayering of Thermal Fume during Tunnel Fires.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2001, 67, 911-918.	0.1	4
175	Designing a clinical education program for engineers: The ESTEEM Project. Journal of Interprofessional Care, 2010, 24, 738-741.	1.9	4
176	Enhancing cell-free layer thickness by bypass channels in a wall. Journal of Biomechanics, 2016, 49, 2299-2305.	2.1	4
177	Collective spreading of red blood cells flowing in a microchannel. Journal of Biomechanics, 2018, 69, 64-69.	2.1	4
178	Asymmetry in cilia configuration induces hydrodynamic phase locking. Physical Review E, 2018, 97, 032411.	2.1	4
179	What causes the spatial heterogeneity of bacterial flora in the intestine of zebrafish larvae?. Journal of Theoretical Biology, 2018, 446, 101-109.	1.7	4
180	Depth measurement of molecular permeation using inclined confocal microscopy. PLoS ONE, 2019, 14, e0214504.	2.5	4

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181	Impact of rheological properties on bacterial streamer formation. Journal of the Royal Society Interface, 2021, 18, 20210546.	3.4	4
182	A Locomotive System Mimicking Pedal Locomotion of Snails for the Capsule Endoscope. IFMBE Proceedings, 2009, , 1655-1659.	0.0	4
183	Non-biodegradable objects may boost microbial growth in water bodies by harnessing bubbles. Royal Society Open Science, 2021, 8, 210646.	2.5	3
184	Lubrication theory and boundary element hybrid method for calculating hydrodynamic forces between particles in near contact. Journal of Computational Physics, 2022, 452, 110913.	3.9	3
185	Influence of Respiratory Gas Density on Tidal Volume during Mechanical Ventilation: A Laboratory Investigation and Observational Study in Children. Tohoku Journal of Experimental Medicine, 2022, 256, 271-281.	1.3	3
186	Bacterial behaviors in confined diorama environments. Biophysical Journal, 2022, 121, 2487-2489.	0.5	3
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