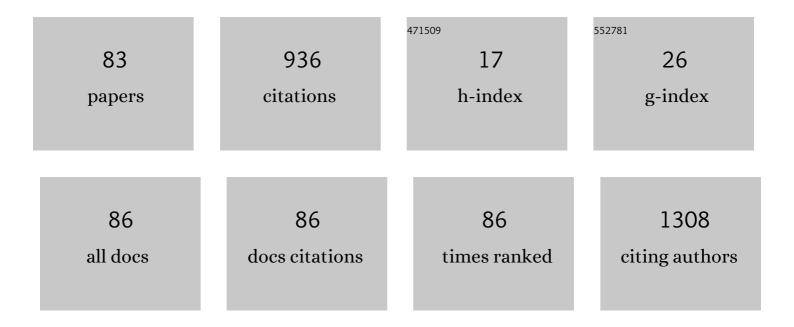
List of Publications by Year in descending order

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KAL-RONG OIN

#	Article	IF	CITATIONS
1	Microbial transport and dispersion in heterogeneous flows created by pillar arrays. Physics of Fluids, 2022, 34, 023308.	4.0	0
2	Deep-learning-assisted extraction of height-averaged velocity from scalar signal transport in a shallow microfluidic channel. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	3
3	Vortex evolution patterns for flow of dilute polymer solutions in confined microfluidic cavities. Soft Matter, 2022, 18, 3867-3877.	2.7	4
4	The intracellular calcium dynamics in a single vascular endothelial cell being squeezed through a narrow microfluidic channel. Biomechanics and Modeling in Mechanobiology, 2021, 20, 55-67.	2.8	3
5	A Novel Analytical Model for Ohmic Contacts to Planar Devices: Theoretical Design and Experimental Verification. IEEE Transactions on Electron Devices, 2021, 68, 299-306.	3.0	4
6	Modeling of Endothelial Calcium Responses within a Microfluidic Generator of Spatio-Temporal ATP and Shear Stress Signals. Micromachines, 2021, 12, 161.	2.9	1
7	A microfluidic generator of dynamic shear stress and biochemical signals based on autonomously oscillatory flow. Electrophoresis, 2021, 42, 2264-2272.	2.4	0
8	Random Walks of a Cell With Correlated Speed and Persistence Influenced by the Extracellular Topography. Frontiers in Physics, 2021, 9, .	2.1	7
9	Effects of a Short-Term Left Ventricular Assist Device on Hemodynamics in a Heart Failure Patient-Specific Aorta Model: A CFD Study. Frontiers in Physiology, 2021, 12, 733464.	2.8	2
10	Two Co(II) coordination polymers: application values on spinal osteomyelitis by reducing the inflammatory response in the paravertebral soft tissue. Chemical Papers, 2021, 75, 2217-2224.	2.2	0
11	LncRNA NORAD promotes bone marrow stem cell differentiation and proliferation by targeting miR-26a-5p in steroid-induced osteonecrosis of the femoral head. Stem Cell Research and Therapy, 2021, 12, 18.	5.5	18
12	A microfluidic system for precisely reproducing physiological blood pressure and wall shear stress to endothelial cells. Analyst, The, 2021, 146, 5913-5922.	3.5	5
13	Raman Spectroscopic Characterization of Polymerization Kinetics of Cyanoacrylate Embolic Glues for Vascular Embolization. Polymers, 2021, 13, 3362.	4.5	4
14	A Flow Sensor-Based Suction-Index Control Strategy for Rotary Left Ventricular Assist Devices. Sensors, 2021, 21, 6890.	3.8	3
15	Clinical Application of the Musculoperiosteal Iliac Flap for Osteonecrosis of the Femoral Head. Annals of Plastic Surgery, 2021, Publish Ahead of Print, e129-e136.	0.9	1
16	Microfluidic focusing of microparticles utilizing negative magnetophoresis and oscillatory flow. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	7
17	Regulation of insulin resistance and glucose metabolism by interaction of PIM kinases and insulin receptor substrates. Archives of Physiology and Biochemistry, 2020, 126, 129-138.	2.1	9
18	Doxorubicin-induced toxicity to 3D-cultured rat ovarian follicles on a microfluidic chip. Toxicology in Vitro, 2020, 62, 104677.	2.4	10

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19	Basic fibroblast growth factor and agarose gel promoteÂ the ability of immune privilege of allogeneic cartilage transplantation in rats. Journal of Orthopaedic Translation, 2020, 22, 73-80.	3.9	13
20	A Novel Tissueâ€Based Liver–Kidneyâ€onâ€aâ€Chip Can Mimic Liver Tropism of Extracellular Vesicles Derived from Breast Cancer Cells. Biotechnology Journal, 2020, 15, 1900107.	3.5	22
21	Precise generation of dynamic biochemical signals by controlling the programmable pump in a Yâ€shaped microfluidic chip with a "christmas tree―inlet. Electrophoresis, 2020, 41, 883-890.	2.4	10
22	Tuning of Classical Electromagnetically Induced Reflectance in Babinet Chalcogenide Metamaterials. IScience, 2020, 23, 101367.	4.1	7
23	Anomalous Confined Diffusion of Nanoparticles in Polymer Solutions. , 2020, , .		0
24	Proper mechanical stress promotes femoral head recovery from steroid-induced osteonecrosis in rats through the OPG/RANK/RANKL system. BMC Musculoskeletal Disorders, 2020, 21, 281.	1.9	11
25	A microfluidic platform enabling real-time control of dynamic biochemical stimuli to biological cells. Journal of Micromechanics and Microengineering, 2020, 30, 095011.	2.6	5
26	Separation of micro and subâ€micro diamagnetic particles in dual ferrofluid streams based on negative magnetophoresis. Electrophoresis, 2020, 41, 909-916.	2.4	9
27	High-purity weight-bearing magnesium screw: Translational application in the healing of femoral neck fracture. Biomaterials, 2020, 238, 119829.	11.4	57
28	Breakup Dynamics of Semi-dilute Polymer Solutions in a Microfluidic Flow-focusing Device. Micromachines, 2020, 11, 406.	2.9	6
29	Acute Effects of Different Intensities of Cycling Acute Exercise on Carotid Arterial Apparent Elasticity and Hemodynamic Variables. BioMed Research International, 2020, 2020, 1-10.	1.9	5
30	An in Vitro Circulatory Device for Studying Blood Flow Electrical Impedance in Human Common Carotid Arteries. , 2020, , .		0
31	An On-Chip Microfluidic System for Reproducing Blood Pressure and Wall Shear Stress Waveforms in Human Common Carotid Arteries *. , 2020, , .		0
32	A Sensorless Suction-Index based Feedback Control Strategy for Rotary Right Ventricular Assist Devices. , 2020, , .		0
33	A Capillary-Evaporation Micropump for Real-Time Sweat Rate Monitoring with an Electrochemical Sensor. Micromachines, 2019, 10, 457.	2.9	15
34	A high-throughput microfluidic device for probing calcium dynamics of single cells squeezing through narrow channels. Journal of Micromechanics and Microengineering, 2019, 29, 115014.	2.6	2
35	Transport of dynamic biochemical signals in a microfluidic single cell trapping channel with varying cross-sections. European Physical Journal E, 2019, 42, 33.	1.6	3
36	Laserâ€induced Grapheneâ€based Nonâ€enzymatic Sensor for Detection of Hydrogen Peroxide. Electroanalysis, 2019, 31, 1334-1341.	2.9	30

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37	Retrospective Long-Term Follow-Up Survival Analysis of the Management of Osteonecrosis of the Femoral Head With Pedicled Vascularized Iliac Bone Graft Transfer. Journal of Arthroplasty, 2019, 34, 1585-1592.	3.1	22
38	A Microfluidic Micropipette Aspiration Device to Study Single-Cell Mechanics Inspired by the Principle of Wheatstone Bridge. Micromachines, 2019, 10, 131.	2.9	21
39	An exploratory study of articular cartilage and subchondral bone reconstruction with bone marrow mesenchymal stem cells combined with porous tantalum/Bio-Gide collagen membrane in osteonecrosis of the femoral head. Materials Science and Engineering C, 2019, 99, 1123-1132.	7.3	22
40	Measuring the apparent viscosities of single cells by tracking the entire deformation dynamics in microfluidic channels. Analytical Methods, 2019, 11, 5680-5690.	2.7	7
41	Effects of the arterial radius and the center-line velocity on the conductivity and electrical impedance of pulsatile flow in the human common carotid artery. Medical and Biological Engineering and Computing, 2019, 57, 441-451.	2.8	8
42	A microfluidic device with spatiotemporal wall shear stress and ATP signals to investigate the intracellular calcium dynamics in vascular endothelial cells. Biomechanics and Modeling in Mechanobiology, 2019, 18, 189-202.	2.8	18
43	ROS and NO Dynamics in Endothelial Cells Exposed to Exercise-Induced Wall Shear Stress. Cellular and Molecular Bioengineering, 2019, 12, 107-120.	2.1	26
44	Three-dimensional flow field simulation of steady flow in the serrated diffusers and nozzles of valveless micro-pumps. Journal of Hydrodynamics, 2019, 31, 413-420.	3.2	3
45	Doxorubicin Induces ER Calcium Release via Src in Rat Ovarian Follicles. Toxicological Sciences, 2019, 168, 171-178.	3.1	17
46	Swimming prevents nonalcoholic fatty liver disease by reducing migration inhibitory factor through Akt suppression and autophagy activation. American Journal of Translational Research (discontinued), 2019, 11, 4315-4325.	0.0	4
47	A Radial Microfluidic Array for Studying Single-cell Ca ²⁺ Dynamics Stimulated by Dynamic ATP Signals. , 2018, , .		0
48	Transmission of Dynamic Biochemical Signals in a Variable Cross-section Microfluidic Channel*. , 2018, , .		0
49	A Microfluidic Chip for Rapidly Controlling Dynamic Biochemical Signals. , 2018, , .		0
50	Carotid Arterial Stiffness and Hemodynamic Responses to Acute Cycling Intervention at Different Times during 12-Week Supervised Exercise Training Period. BioMed Research International, 2018, 2018, 1-11.	1.9	7
51	Efficient Boolean Modeling of Gene Regulatory Networks via Random Forest Based Feature Selection and Best-Fit Extension. , 2018, , .		9
52	Reconfigurable, graphene-coated, chalcogenide nanowires with a sub-10-nm enantioselective sorting capability. Microsystems and Nanoengineering, 2018, 4, 7.	7.0	17
53	Transmission of dynamic biochemical signals in the shallow microfluidic channel: nonlinear modulation of the pulsatile flow. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	9
54	PIM Kinases and Their Relevance to the PI3K/AKT/mTOR Pathway in the Regulation of Ovarian Cancer. Biomolecules, 2018, 8, 7.	4.0	57

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55	Mathematical Modeling Reveals the Role of Hypoxia in the Promotion of Human Mesenchymal Stem Cell Long-Term Expansion. Stem Cells International, 2018, 2018, 1-13.	2.5	7
56	Transfer characteristics of dynamic biochemical signals in non-reversing pulsatile flows in a shallow Y-shaped microfluidic channel: signal filtering and nonlinear amplitude-frequency modulation. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1481-1496.	3.6	6
57	Numerical analysis of wall shear stress in ascending aorta before tearing in type A aortic dissection. Computers in Biology and Medicine, 2017, 89, 236-247.	7.0	41
58	The Role of Microfluidics for Organ on Chip Simulations. Bioengineering, 2017, 4, 39.	3.5	56
59	Combined Treatment with an Anticoagulant and a Vasodilator Prevents Steroid-Associated Osteonecrosis of Rabbit Femoral Heads by Improving Hypercoagulability. BioMed Research International, 2017, 2017, 1-10.	1.9	16
60	Visualizing the spatiotemporal map of Rac activation in bovine aortic endothelial cells under laminar and disturbed flows. PLoS ONE, 2017, 12, e0189088.	2.5	12
61	Rapid Capture and Analysis of Airborne Staphylococcus aureus in the Hospital Using a Microfluidic Chip. Micromachines, 2016, 7, 169.	2.9	23
62	A Y-Shaped Microfluidic Device to Study the Combined Effect of Wall Shear Stress and ATP Signals on Intracellular Calcium Dynamics in Vascular Endothelial Cells. Micromachines, 2016, 7, 213.	2.9	15
63	High-Throughput Microfluidic Device for LAMP Analysis of Airborne Bacteria. ACS Sensors, 2016, 1, 958-962.	7.8	43
64	Effects of 8-week swimming training on carotid arterial stiffness and hemodynamics in young overweight adults. BioMedical Engineering OnLine, 2016, 15, 151.	2.7	12
65	A theoretical computerized study for the electrical conductivity of arterial pulsatile blood flow by an elastic tube model. Medical Engineering and Physics, 2016, 38, 1439-1448.	1.7	10
66	A multi-component parallel-plate flow chamber system for studying the effect of exercise-induced wall shear stress on endothelial cells. BioMedical Engineering OnLine, 2016, 15, 154.	2.7	30
67	Microfluidic-based single cell trapping using a combination of stagnation point flow and physical barrier. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 422-429.	3.4	15
68	Modeling of \$\$hbox {TRPV}_{4}hbox {-C}_{1}\$\$ TRPV 4 -C 1 -mediated calcium signaling in vascular endothelial cells induced by fluid shear stress and ATP. Biomechanics and Modeling in Mechanobiology, 2015, 14, 979-993.	2.8	20
69	Acute effect of cycling intervention on carotid arterial hemodynamics: basketball athletes versus sedentary controls. BioMedical Engineering OnLine, 2015, 14, S17.	2.7	28
70	Acute impact of upper and lower limb resistance training on common carotid arterial stiffness and local hemodynamics. , 2014, , .		0
71	Dynamic modeling for Ca ²⁺ -mediated NFAT Activation in stem cells induced by ATP. , 2014, , .		0
72	Modeling of progesterone-induced intracellular calcium signaling in human spermatozoa. Journal of Theoretical Biology, 2014, 351, 58-66.	1.7	10

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73	Transportation of dynamic biochemical signals in non-reversing oscillatory flows in blood vessels. Science China: Physics, Mechanics and Astronomy, 2013, 56, 322-327.	5.1	4
74	Transport of Dynamic Biochemical Signals in Steady Flow in a Shallow Y-Shaped Microfluidic Channel: Effect of Transverse Diffusion and Longitudinal Dispersion. Journal of Biomechanical Engineering, 2013, 135, 121011.	1.3	22
75	A simplified dynamic model for the p53-Mdm2 feedback loop. , 2013, , .		3
76	Exercise controls arterial stiffness via hemodynamic modulation. , 2013, , .		1
77	Hysteresis modeling for calcium-mediated ciliary beat frequency in airway epithelial cells. Mathematical Biosciences, 2011, 229, 101-108.	1.9	6
78	Dynamic modeling for flow-activated chloride-selective membrane current in vascular endothelial cells. Biomechanics and Modeling in Mechanobiology, 2011, 10, 743-754.	2.8	11
79	Dynamic modeling and control of extracellular ATP concentration on vascular endothelial cells via shear stress modulation. Journal of Control Theory and Applications, 2010, 8, 326-332.	0.8	2
80	The singular perturbation analysis for one-dimensional poisson-nernst-planck equation. , 2010, , .		0
81	A hysteresis model for calcium-mediated ciliary beat frequency in airway epithelial cells. , 2010, , .		0
82	A mathematical model for ATP-mediated calcium dynamics in vascular endothelial cells induced by fluid shear stress. Applied Mathematics and Mechanics (English Edition), 2008, 29, 1291-1298.	3.6	14
83	AlGaN/GaN Magnetic Sensors Featuring Heterojunction 2DEG Channel. Measurement Science and Technology, 0, , .	2.6	3