Wei-Wei Yan

List of Publications by Year
in descending order

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32 papers	389 citations	840585 11 h-index	794469 19 g-index
33 all docs	33 docs citations	33 times ranked	383 citing authors

#	Article	IF	Citations
1	Numerical study on targeted delivery of magnetic drug particles in realistic human lung. Powder Technology, 2022, 397, 116984.	2.1	9
2	Numerical simulations and experimental measurements on flow features in a patient-specific upper airway model with obstructive sleep apnea. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 461-470.	1.1	1
3	FRACTAL ANALYSIS AND NUMERICAL SIMULATION ON PULSATING FLOW PATTERNS IN A THREE-DIMENSIONAL BRONCHIAL TREE. Fractals, 2021, 29, 2150053.	1.8	4
4	A new criterion of coalescence-induced microbubble detachment in three-dimensional microfluidic channel. Physics of Fluids, 2021, 33, .	1.6	8
5	Flow Simulation in the Upper Respiratory Tract of Two Obstructive Sleep Apnea Patients with Successful and Failed Surgery. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-12.	0.7	1
6	Numerical comparison of saw-tooth plasma actuators for film cooling flow control over a flat plate. International Journal of Thermal Sciences, 2021, 163, 106807.	2.6	5
7	Quantitative prediction of elongation deformation and shape relaxation of a red blood cell under tensile and shear stresses. Physics of Fluids, 2021, 33, .	1.6	11
8	Numerical study on abnormal airflow patterns and particle deposition characteristics in the realistic HUA model with pharyngeal obstruction. Powder Technology, 2019, 356, 148-161.	2.1	13
9	Large eddy simulation of film cooling flow from cylindrical hole with dielectric barrier discharge plasma actuators. Applied Thermal Engineering, 2019, 155, 277-288.	3.0	8
10	LBM simulations on the influence of endothelial SGL structure on cell adhesion in the micro-vessels. Computers and Mathematics With Applications, 2019, 78, 1182-1193.	1.4	9
11	Local effective viscosity of gas in nano-scale channels. European Journal of Mechanics, B/Fluids, 2017, 64, 55-59.	1.2	14
12	Methods of obtaining, verifying, and reusing optimal biological solutions. Cogent Engineering, 2017, 4, 1306951.	1.1	1
13	Numerical Investigation of Flow Characteristics in the Obstructed Realistic Human Upper Airway. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	11
14	Numerical simulation on the reduction of flow heterogeneity in the biofilter media. International Journal of Modern Physics C, 2016, 27, 1650086.	0.8	3
15	Numerical investigation on characteristic flow regions for three staggered stationary circular cylinders. European Journal of Mechanics, B/Fluids, 2016, 60, 48-61.	1.2	17
16	Numerical investigation of vortex suppression regions for three staggered circular cylinders. European Journal of Mechanics, B/Fluids, 2016, 55, 207-214.	1.2	16
17	Simulations of natural convection heat transfer in an enclosure at different Rayleigh number using lattice Boltzmann method. Computers and Fluids, 2016, 124, 30-38.	1.3	55
18	Ground effect on the power extraction performance of a flapping wing biomimetic energy generator. Journal of Fluids and Structures, 2015, 54, 247-262.	1.5	25

#	Article	IF	Citations
19	Lattice Boltzmann investigation of droplets impact behaviors onto a solid substrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 318-328.	2.3	33
20	Study on Eliminating Spurious Eddies at the Interfaces of Two-Phase Flows Using Lattice Boltzmann Simulations. Journal of Computational Multiphase Flows, 2014, 6, 127-131.	0.8	1
21	Fluid Dynamics of Flapping Insect Wing in Ground Effect. Journal of Bionic Engineering, 2014, 11, 52-60.	2.7	30
22	Effect of environmental condition on ventilation rate of special standard bars. Thermal Science, 2014, 18, 1493-1496.	0.5	0
23	Effect of nonâ€isothermal condition on heterogeneous flow through biofilter media by lattice Boltzmann simulation. Journal of Chemical Technology and Biotechnology, 2013, 88, 456-461.	1.6	5
24	Micropaticle transport and deposition from electrokinetic microflow in a 90Â° bend. Journal of Hydrodynamics, 2013, 25, 535-541.	1.3	0
25	Design and analysis of flow rectifier of gas turbine flowmeter. Thermal Science, 2013, 17, 1504-1507.	0.5	3
26	Simulation of flow through porous anode in MFC at higher power density. Theoretical and Applied Mechanics Letters, 2012, 2, 022003.	1.3	0
27	Effects of wall shear stress and its gradient on tumor cell adhesion in curved microvessels. Biomechanics and Modeling in Mechanobiology, 2012, 11, 641-653.	1.4	35
28	Effects of divalent cations on cell adhesion between human neutrophil and endothelial ligand VCAM-1: a lattice Boltzmann analysis. Procedia Computer Science, 2011, 4, 1039-1047.	1.2	0
29	Mechanical Mechanism of Circadian Fluctuations Regulated Haematopoietic Stems Cell Release. , 2011, , .		0
30	Effects of curvature and cellâ€“cell interaction on cell adhesion in microvessels. Biomechanics and Modeling in Mechanobiology, 2010, 9, 629-640.	1.4	27
31	Numerical simulation of air flow through a biofilter with heterogeneous porous media. Bioresource Technology, 2008, 99, 2156-2161.	4.8	15
32	LATTICE BOLTZMANN SIMULATION ON NATURAL CONVECTION HEAT TRANSFER IN A TWO-DIMENSIONAL CAVITY FILLED WITH HETEROGENEOUSLY POROUS MEDIUM. International Journal of Modern Physics C, 2006, 17, 771-783.	0.8	29