Sangmo Kang

List of Publications by Year
in descending order

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43	632	759233 12	580821 25
papers	citations	h-index	g-index

43	43	43	836
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computational Prediction of Paste Separation from Industrial Waste by a Dry Separator Equipped with a Rotor. , 2022, 2, 12-15.		0
2	Numerical comparative study on the performance of open photoacoustic cells. Journal of Mechanical Science and Technology, 2021, 35, 1473-1485.	1.5	2
3	Numerical Study on the Surface Plasmon Resonance Tunability of Spherical and Non-Spherical Core-Shell Dimer Nanostructures. Nanomaterials, 2021, 11, 1728.	4.1	6
4	Tuning the characteristics of photoacoustic pressure in a laser-induced photoacoustic generator: A numerical study. Applied Mathematical Modelling, 2021, 94, 98-116.	4.2	5
5	Interactions of a short-pulsed plane acoustic wave with complex rigid objects: a numerical study. Journal of Mechanical Science and Technology, 2021, 35, 4011-4022.	1.5	0
6	Dynamics of bacterial flagellum in a channel flow for design of artificial microrobot. AIP Conference Proceedings, 2020, , .	0.4	0
7	Numerical study of geometrical effects on the performance of an H-type cylindrical resonant photoacoustic cell. Journal of Mechanical Science and Technology, 2018, 32, 5671-5683.	1.5	5
8	Dielectrophoretic motions of a pair of particles in the vicinity of a planar wall under a direct-current electric field. Journal of Electrostatics, 2017, 89, 30-41.	1.9	2
9	Numerical Study on the Dynamics of Organism Motion under Background Flow. , 2017, , .		1
10	Corrigendum to â€œMolecular Dynamics Simulation of Aggregates in the Dodecane/span80 System and Their Behaviour in an Electric Fieldâ€• Advances in Condensed Matter Physics, 2016, 2016, 1-1.	1.1	0
11	Development of a bi-directional electrohydrodynamic pump: Parametric study with numerical simulation and flow visualization. Advances in Mechanical Engineering, 2016, 8, 168781401665577.	1.6	9
12	Effects of the Reynolds number on two-dimensional dielectrophoretic motions of a pair of particles under a uniform electric field. Journal of Mechanical Science and Technology, 2016, 30, 3219-3228.	1.5	0
13	Molecular Dynamics Simulation of Aggregates in the Dodecane/span80 System and Their Behaviour in an Electric Field. Advances in Condensed Matter Physics, 2015, 2015, 1-9.	1.1	6
14	Dielectrophoretic motions of a single particle in the vicinity of a planar wall under a direct-current electric field. Journal of Electrostatics, 2015, 76, 159-170.	1.9	11
15	Dielectrophoretic motions of multiple particles under an alternating-current electric field. European Journal of Mechanics, B/Fluids, 2015, 54, 53-68.	2.5	9
16	Direct-current Dielectrophoretic Motions of a Single Particle due to Interactions with a Nearby Nonconducting Wall. Transactions of the Korean Society of Mechanical Engineers, B, 2015, 39, 425-433.	0.1	2
17	Direct-Current Dielectrophoretic Motions of a Pair of Particles due to Interactions with a Nearby Nonconducting Wall. Transactions of the Korean Society of Mechanical Engineers, B, 2015, 39, 805-815.	0.1	0
18	Effect Analysis of Design Variables on the Disc in a Double-Eccentric Butterfly Valve. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	2

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19	Dielectrophoretic motion of two particles with diverse sets of the electric conductivity under a uniform electric field. Computers and Fluids, 2014, 105, 231-243.	2.5	20
20	Numerical study on bacterial flagellar bundling and tumbling in a viscous fluid using an immersed boundary method. Applied Mathematical Modelling, 2014, 38, 3567-3590.	4.2	22
21	Hydrodynamic interaction between two swimming bacterial flagella in a viscous fluid - a numerical study using an immersed boundary method. Progress in Computational Fluid Dynamics, 2014, 14, 375.	0.2	6
22	Direct simulations on the electrophoretic motion of multiple charged particles using an immersed boundary method. Computers and Fluids, 2013, 73, 10-23.	2.5	5
23	Two-dimensional dipolophoretic motion of a pair of ideally polarizable particles under a uniform electric field. European Journal of Mechanics, B/Fluids, 2013, 41, 66-80.	2.5	8
24	Dielectrophoretic motions of multiple particles and their analogy with the magnetophoretic counterparts. Journal of Mechanical Science and Technology, 2012, 26, 3503-3513.	1.5	21
25	Numerical study on the rotation of an elastic rod in a viscous fluid using an immersed boundary method. Journal of Mechanical Science and Technology, 2012, 26, 1515-1522.	1.5	21
26	Numerical study on the propulsion of a bacterial flagellum in a viscous fluid using an immersed boundary method. Computers and Fluids, 2012, 62, 13-24.	2.5	33
27	Motion of paramagnetic particles in a viscous fluid under a uniform magnetic field: benchmark solutions. Journal of Engineering Mathematics, 2011, 69, 25-58.	1.2	15
28	Simple, coupled algorithms for solving creeping flows and their application to electroâ€osmotic flows. International Journal for Numerical Methods in Fluids, 2011, 66, 1248-1273.	1.6	4
29	A Review on Mixing in Microfluidics. Micromachines, 2010, 1, 82-111.	2.9	249
30	A numerical study on the flow and mixing in a microchannel using magnetic particles. Journal of Mechanical Science and Technology, 2010, 24, 441-450.	1.5	13
31	Molecular dynamics study on the effect of solution-wall interaction potential on the properties of solution in uniformly charged hydrophobic channel. Journal of Mechanical Science and Technology, 2010, 24, 1401-1410.	1.5	3
32	Numerical estimation of ion transport and electroosmotic flow around a pair of cylindrical electrodes in a microchannel using immersed boundary method. Journal of Mechanical Science and Technology, 2010, 24, 2467-2477.	1.5	3
33	Numerical analysis on electroosmotic flows in a microchannel with rectangle-waved surface roughness using the Poissonâ€“Nernstâ€“Planck model. Microfluidics and Nanofluidics, 2009, 6, 461-477.	2.2	26
34	Electroosmotic flows in an electric double layer overlapped channel with rectangle-waved surface roughness. Microfluidics and Nanofluidics, 2009, 7, 337-352.	2.2	11
35	A study on the slip velocity on a pair of asymmetric electrodes for AC-electroosmosis in a microchannel. Journal of Mechanical Science and Technology, 2009, 23, 874-884.	1.5	2
36	Parallel computation of two-phase flow in a microchannel using the lattice Boltzmann method. Journal of Mechanical Science and Technology, 2009, 23, 2492-2501.	1.5	17

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37	A dynamic boundary model for implementation of boundary conditions in lattice-Boltzmann method. Journal of Mechanical Science and Technology, 2008, 22, 1192-1201.	1.5	6
38	Electroosmotic flows in channel with two symmetric periodic arrays of square-sectioned ribs. Journal of Mechanical Science and Technology, 2007, 21, 372-383.	1.5	0
39	A review on the analysis and experiment of fluid flow and mixing in micro-channels. Journal of Mechanical Science and Technology, 2007, 21, 536-548.	1.5	39
40	Numerical and experimental study on a channel mixer with a periodic array of cross baffles. Journal of Mechanical Science and Technology, 2007, 21, 549-555.	1.5	6
41	An experimental study on the AC electroosmotic flow around a pair of electrodes in a microchannel. Journal of Mechanical Science and Technology, 2007, 21, 2237-2243.	1.5	2
42	Unsteady electroosmotic channel flows with the nonoverlapped and overlapped electric double layers. Journal of Mechanical Science and Technology, 2006, 20, 2250-2264.	1.5	6
43	Numerical study on laminar flow over three side-by-side cylinders. Journal of Mechanical Science and Technology, 2004, 18, 1869-1879.	0.4	34