Zung-Hang Wei

List of Publications by Year
in descending order

39 papers	579 citations	623734 14 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	875 citing authors

#	Article	IF	Citations
1	Possible strategies for performance enhancement of asymmetric potential bistable energy harvesters by orbit jumps. European Physical Journal B, 2022, 95, 1.	1.5	3
2	Numerical analysis of a magnetic-spring-based piecewise nonlinear electromagnetic energy harvester. European Physical Journal Plus, 2022, 137, 1.	2.6	8
3	Non-equilibrium characteristics of mass and heat transfers in the slip flow. AIP Advances, 2022, 12, .	1.3	8
4	Shapeâ€Mediated Magnetocrystalline Anisotropy and Relaxation Controls by Cobalt Ferrite Coreâ€“Shell Heterostructures for Magnetothermal Penetration Delivery (Adv. Mater. Interfaces 12/2022). Advanced Materials Interfaces, 2022, 9, .	3.7	0
5	Stochastic analysis of asymmetric monostable harvesters driven by Gaussian white noise with moment differential equations. European Physical Journal Plus, 2021, 136, 1.	2.6	3
6	Kinetic modeling of multiphase flow based on simplified Enskog equation. Frontiers of Physics, 2020, 15, 1.	5.0	16
7	Synthesis of ironâ€oxide magnetic nanoparticles coated with dextran of varied molecular mass using a facile ballâ€milling method. Micro and Nano Letters, 2020, 15, 645-650.	1.3	6
8	Antibacterial properties of nanoporous graphene oxide/cobalt metal organic framework. Materials Science and Engineering C, 2019, 104, 109862.	7.3	56
9	Thermoelectric Effects of Nanogaps between Two Tips. Small, 2018, 14, e1703695.	10.0	3
10	Thermoelectric Devices: Thermoelectric Effects of Nanogaps between Two Tips (Small 14/2018). Small, 2018, 14, 1870063.	10.0	0
11	MRI tracking of polyethylene glycol-coated superparamagnetic iron oxide-labelled placenta-derived mesenchymal stem cells toward glioblastoma stem-like cells in a mouse model. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 448-459.	2.8	20
12	Intracellular Nanoparticle-Mediated Hyperthermia of Microscopic Tumours. , 2016, , .		0
13	New Approach for Quantitative Single-Cell Analysis of Magnetic Labelling Efficacy. , 2016, , .		0
14	Magnetic Micro/Nano Structures for Biological Manipulation. Spin, 2016, 06, 1650005.	1.3	8
15	Comparison of cell behavior on pva/pva-gelatin electrospun nanofibers with random and aligned configuration. Scientific Reports, 2016, 6, 37960.	3.3	110
16	Honeycomb-shaped magnetic multilayer thin films for cell trapping. RSC Advances, 2016, 6, 24299-24303.	3.6	4
17	Erlotinib-Conjugated Iron Oxide Nanoparticles as a Smart Cancer-Targeted Theranostic Probe for MRI. Scientific Reports, 2016, 6, 36650.	3.3	48
18	Demonstration of using surface plasma enhanced magneto-optic Kerr effect to implement a compact micro-optofluidic sensor. , 2016, , .		0

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19	Concentric Magnetic Structures for Magnetophoretic Bead Collection, Cell Trapping and Analysis of Cell Morphological Changes Caused by Local Magnetic Forces. PLoS ONE, 2015, 10, e0135299.	2.5	14
20	Biomimetic Surfaces: Anisotropic Wettability of Biomimetic Micro/Nano Dualâ€Scale Inclined Cones Fabricated by Ferrofluidâ€Molding Method (Adv. Funct. Mater. 18/2015). Advanced Functional Materials, 2015, 25, 2669-2669.	14.9	2
21	Cell Trapping by Local Magnetic Force Using Sinewave Magnetic Structure. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
22	Anisotropic Wettability of Biomimetic Micro/Nano Dualâ€Scale Inclined Cones Fabricated by Ferrofluidâ€Molding Method. Advanced Functional Materials, 2015, 25, 2670-2676.	14.9	33
23	Influence of Magnetic Domain Walls and Magnetic Field on the Thermal Conductivity of Magnetic Nanowires. Nano Letters, 2015, 15, 2773-2779.	9.1	22
24	Optimization of Magnetic Labeling Process for Intracellular Hyperthermia in Cervical Cancer Cells. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
25	Wave-Like Pseudo-Spin Valve Thin Film as a Biosensor. IEEE Transactions on Magnetics, 2014, 50, 1-3.	2.1	2
26	Magneto-Optical Kerr Effect Enhanced by Surface Plasmon Resonance and Its Application on Biological Detection. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	9
27	Wheatstone bridge giant-magnetoresistance based cell counter. Biosensors and Bioelectronics, 2014, 57, 48-53.	10.1	33
28	Compare Analysis for the Nanotoxicity Effects of Different Amounts of Endocytic Iron Oxide Nanoparticles at Single Cell Level. PLoS ONE, 2014, 9, e96550.	2.5	16
29	Cell Patterning Using Magnetic Concentric Rectangular Thin Films for Biochip Application. IEEE Transactions on Magnetics, 2013, 49, 3496-3499.	2.1	5
30	Nanostructured Biosensor of Cobalt Line Array on Permalloy Film. IEEE Transactions on Magnetics, 2013, 49, 4040-4043.	2.1	1
31	Field dependent shape variation of magnetic fluid droplets on magnetic dots. Journal of Magnetism and Magnetic Materials, 2012, 324, 4133-4135.	2.3	22
32	A permalloy zigzag structure based magnetic bio-sensor. Journal of Applied Physics, 2012, 111, 07E506.	2.5	19
33	Angular arrangements of triangular fins for controlling the magnetization processes in permalloy rings. Journal of Applied Physics, 2011, 109, 07D507.	2.5	10
34	Hysteresis in a Microactuator With Single-Domain Magnetic Thin Films. IEEE Transactions on Magnetics, 2010, 46, 630-633.	2.1	16
35	Magnetoresistance measurement of permalloy thin film rings with triangular fins. Journal of Magnetism and Magnetic Materials, 2010, 322, 92-96.	2.3	8
36	Cell patterning using microstructured ferromagnetic thin films. Applied Physics Letters, 2010, 96, .	3.3	32

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37	Oscillation spectrums and beat phenomenon of a water droplet driven by electrowetting. Applied Physics Letters, 2009, 94, 154102.	3.3	13
38	Magnetic fluid micromixer with tapered magnets. Journal of Applied Physics, 2009, 105, 07B523.	2.5	23
39	Shapeâ€Mediated Magnetocrystalline Anisotropy and Relaxation Controls by Cobalt Ferrite Coreâ€“Shell Heterostructures for Magnetothermal Penetration Delivery. Advanced Materials Interfaces, 0, , 2200022.	3.7	1