

Zung-Hang Wei

List of Publications by Year in descending order

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39
papers

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citations

623734

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times ranked

875
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of cell behavior on pva/pva-gelatin electrospun nanofibers with random and aligned configuration. <i>Scientific Reports</i> , 2016, 6, 37960.	3.3	110
2	Antibacterial properties of nanoporous graphene oxide/cobalt metal organic framework. <i>Materials Science and Engineering C</i> , 2019, 104, 109862.	7.3	56
3	Erlotinib-Conjugated Iron Oxide Nanoparticles as a Smart Cancer-Targeted Theranostic Probe for MRI. <i>Scientific Reports</i> , 2016, 6, 36650.	3.3	48
4	Wheatstone bridge giant-magnetoresistance based cell counter. <i>Biosensors and Bioelectronics</i> , 2014, 57, 48-53.	10.1	33
5	Anisotropic Wettability of Biomimetic Micro/Nano Dual-Scale Inclined Cones Fabricated by Ferrofluid-Molding Method. <i>Advanced Functional Materials</i> , 2015, 25, 2670-2676.	14.9	33
6	Cell patterning using microstructured ferromagnetic thin films. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	32
7	Magnetic fluid micromixer with tapered magnets. <i>Journal of Applied Physics</i> , 2009, 105, 07B523.	2.5	23
8	Field dependent shape variation of magnetic fluid droplets on magnetic dots. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4133-4135.	2.3	22
9	Influence of Magnetic Domain Walls and Magnetic Field on the Thermal Conductivity of Magnetic Nanowires. <i>Nano Letters</i> , 2015, 15, 2773-2779.	9.1	22
10	MRI tracking of polyethylene glycol-coated superparamagnetic iron oxide-labelled placenta-derived mesenchymal stem cells toward glioblastoma stem-like cells in a mouse model. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 448-459.	2.8	20
11	A permalloy zigzag structure based magnetic bio-sensor. <i>Journal of Applied Physics</i> , 2012, 111, 07E506.	2.5	19
12	Hysteresis in a Microactuator With Single-Domain Magnetic Thin Films. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 630-633.	2.1	16
13	Kinetic modeling of multiphase flow based on simplified Enskog equation. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	16
14	Compare Analysis for the Nanotoxicity Effects of Different Amounts of Endocytic Iron Oxide Nanoparticles at Single Cell Level. <i>PLoS ONE</i> , 2014, 9, e96550.	2.5	16
15	Concentric Magnetic Structures for Magnetophoretic Bead Collection, Cell Trapping and Analysis of Cell Morphological Changes Caused by Local Magnetic Forces. <i>PLoS ONE</i> , 2015, 10, e0135299.	2.5	14
16	Oscillation spectrums and beat phenomenon of a water droplet driven by electrowetting. <i>Applied Physics Letters</i> , 2009, 94, 154102.	3.3	13
17	Angular arrangements of triangular fins for controlling the magnetization processes in permalloy rings. <i>Journal of Applied Physics</i> , 2011, 109, 07D507.	2.5	10
18	Magneto-Optical Kerr Effect Enhanced by Surface Plasmon Resonance and Its Application on Biological Detection. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	9

#	ARTICLE	IF	CITATIONS
19	Magnetoresistance measurement of permalloy thin film rings with triangular fins. Journal of Magnetism and Magnetic Materials, 2010, 322, 92-96.	2.3	8
20	Magnetic Micro/Nano Structures for Biological Manipulation. Spin, 2016, 06, 1650005.	1.3	8
21	Numerical analysis of a magnetic-spring-based piecewise nonlinear electromagnetic energy harvester. European Physical Journal Plus, 2022, 137, 1.	2.6	8
22	Non-equilibrium characteristics of mass and heat transfers in the slip flow. AIP Advances, 2022, 12, .	1.3	8
23	Synthesis of iron oxide magnetic nanoparticles coated with dextran of varied molecular mass using a facile ball-milling method. Micro and Nano Letters, 2020, 15, 645-650.	1.3	6
24	Cell Patterning Using Magnetic Concentric Rectangular Thin Films for Biochip Application. IEEE Transactions on Magnetics, 2013, 49, 3496-3499.	2.1	5
25	Honeycomb-shaped magnetic multilayer thin films for cell trapping. RSC Advances, 2016, 6, 24299-24303.	3.6	4
26	Optimization of Magnetic Labeling Process for Intracellular Hyperthermia in Cervical Cancer Cells. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	3
27	Thermoelectric Effects of Nanogaps between Two Tips. Small, 2018, 14, e1703695.	10.0	3
28	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
29	Possible strategies for performance enhancement of asymmetric potential bistable energy harvesters by orbit jumps. European Physical Journal B, 2022, 95, 1.	1.5	3
30	Wave-Like Pseudo-Spin Valve Thin Film as a Biosensor. IEEE Transactions on Magnetics, 2014, 50, 1-3.	2.1	2
31	Biomimetic Surfaces: Anisotropic Wettability of Biomimetic Micro/Nano Dual-Scale Inclined Cones Fabricated by Ferrofluid-Molding Method (Adv. Funct. Mater. 18/2015). Advanced Functional Materials, 2015, 25, 2669-2669.	14.9	2
32	Cell Trapping by Local Magnetic Force Using Sinewave Magnetic Structure. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
33	Nanostructured Biosensor of Cobalt Line Array on Permalloy Film. IEEE Transactions on Magnetics, 2013, 49, 4040-4043.	2.1	1
34	Shape-Mediated Magnetocrystalline Anisotropy and Relaxation Controls by Cobalt Ferrite Core-Shell Heterostructures for Magnetothermal Penetration Delivery. Advanced Materials Interfaces, 0, , 2200022.	3.7	1
35	Intracellular Nanoparticle-Mediated Hyperthermia of Microscopic Tumours. , 2016, , .		0
36	New Approach for Quantitative Single-Cell Analysis of Magnetic Labelling Efficacy. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Demonstration of using surface plasma enhanced magneto-optic Kerr effect to implement a compact micro-optofluidic sensor. , 2016, , .		0
38	Thermoelectric Devices: Thermoelectric Effects of Nanogaps between Two Tips (Small 14/2018). Small, 2018, 14, 1870063.	10.0	0
39	Shape-Mediated Magnetocrystalline Anisotropy and Relaxation Controls by Cobalt Ferrite Core-Shell Heterostructures for Magnetothermal Penetration Delivery (Adv. Mater. Interfaces 12/2022). Advanced Materials Interfaces, 2022, 9, .	3.7	0