

Jie Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

854
citations

15
h-index

28
g-index

55
ext. papers

1,106
ext. citations

4.7
avg, IF

4.27
L-index

#	Paper	IF	Citations
53	Highly Efficient Capture and Quantification of the Airborne Fungal Pathogen Employing a Nanoelectrode-Activated Microwell Array.. <i>ACS Omega</i> , 2022 , 7, 459-468	3.9	1
52	Improving immunoassay detection accuracy of anti-SARS-CoV-2 antibodies through dual modality validation. <i>Biosensors and Bioelectronics: X</i> , 2022 , 100176	2.9	
51	Exploratory study on neurochemical effects of low-intensity pulsed ultrasound in brains of mice. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 1099-1110	3.1	1
50	Classification of cannabis strains in the Canadian market with discriminant analysis of principal components using genome-wide single nucleotide polymorphisms. <i>PLoS ONE</i> , 2021 , 16, e0253387	3.7	2
49	Impact of low-intensity pulsed ultrasound on the growth of <i>Schizochytrium</i> sp. for omega-3 production. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 319-328	4.9	2
48	Selective Single-Cell Sorting Using a Multisectorial Electroactive Nanowell Platform. <i>ACS Nano</i> , 2021 ,	16.7	1
47	Overcoming the sensitivity vs. throughput tradeoff in Coulter counters: A novel side counter design. <i>Biosensors and Bioelectronics</i> , 2020 , 168, 112507	11.8	6
46	Secondary Metabolites Profiled in Cannabis Inflorescences, Leaves, Stem Barks, and Roots for Medicinal Purposes. <i>Scientific Reports</i> , 2020 , 10, 3309	4.9	55
45	DNA aptamer-based non-faradaic impedance biosensor for detecting <i>E. coli</i> . <i>Analytica Chimica Acta</i> , 2020 , 1107, 135-144	6.6	19
44	Improved Low-Power Cost-Effective DCT Implementation Based on Markov Random Field and Stochastic Logic. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020 , 30, 3803-3813	6.4	1
43	Ultrasound-assisted magnetic nanoparticle-based gene delivery. <i>PLoS ONE</i> , 2020 , 15, e0239633	3.7	0
42	Impact of low-intensity pulsed ultrasound on transcription and metabolite compositions in proliferation and functionalization of human adipose-derived mesenchymal stromal cells. <i>Scientific Reports</i> , 2020 , 10, 13690	4.9	5
41	Single ascospore detection for the forecasting of stem rot of canola. <i>Lab on A Chip</i> , 2020 , 20, 3644-3652	7.2	4
40	Therapeutic Systems and Technologies: State-of-the-Art Applications, Opportunities, and Challenges. <i>IEEE Reviews in Biomedical Engineering</i> , 2020 , 13, 325-339	6.4	13
39	A Miniaturized Low-Intensity Ultrasound Device for Wearable Medical Therapeutic Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 1372-1382	5.1	5
38	A Review of Low-Intensity Pulsed Ultrasound for Therapeutic Applications. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2704-2718	5	63
37	Polyethylenimine-coated iron oxide magnetic nanoparticles for high efficient gene delivery. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 811-821	3.3	14

36	Feedback-Based Low-Power Soft-Error-Tolerant Design for Dual-Modular Redundancy. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2018 , 26, 1585-1589	2.6	9
35	Immuno-impedimetric Biosensor for Onsite Monitoring of Ascospores and Forecasting of Sclerotinia Stem Rot of Canola. <i>Scientific Reports</i> , 2018 , 8, 12396	4.9	11
34	Low Power Area-Efficient DCT Implementation Based on Markov Random Field-Stochastic Logic 2018 ,		1
33	High-Efficiency Charge Pumps for Low-Power On-Chip Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1143-1153	3.9	14
32	Transfection of Difficult-to-Transfect Rat Primary Cortical Neurons with Magnetic Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2018 , 14, 1654-1664	4	8
31	Non-invasive Point-of-Care Device To Diagnose Acute Mesenteric Ischemia. <i>ACS Sensors</i> , 2018 , 3, 2296-2302	3.0	5
30	Low-Power Noise-Immune Nanoscale Circuit Design Using Coding-Based Partial MRF Method. <i>IEEE Journal of Solid-State Circuits</i> , 2018 , 53, 2389-2398	5.5	3
29	Algal Cell Response to Pulsed Waved Stimulation and Its Application to Increase Algal Lipid Production. <i>Scientific Reports</i> , 2017 , 7, 42003	4.9	19
28	Impact of Low-Intensity Pulsed Ultrasound on Transcript and Metabolite Abundance in <i>Saccharomyces cerevisiae</i> . <i>Journal of Proteome Research</i> , 2017 , 16, 2975-2982	5.6	5
27	Using Impedance Measurements to Characterize Surface Modified with Gold Nanoparticles. <i>Sensors</i> , 2017 , 17,	3.8	5
26	A Fully Integrated Multistage Cross-Coupled Voltage Multiplier With No Reversion Power Loss in a Standard CMOS Process. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017 , 64, 737-741	3.5	15
25	A low-voltage charge pump with improved pumping efficiency 2017 ,		5
24	Increasing vaccine production using pulsed ultrasound waves. <i>PLoS ONE</i> , 2017 , 12, e0187048	3.7	2
23	Implementation of efficient parallel discrete cosine transform using stochastic logic 2016 ,		2
22	Simulations and design of microfabricated interdigitated electrodes for use in a gold nanoparticle enhanced biosensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 299-302	0.9	1
21	Modeling of the Effect of Cell Deformation Associated with Microbubble Collision in Centrifugation Field. <i>Cellular and Molecular Bioengineering</i> , 2016 , 9, 162-174	3.9	2
20	Area-efficient partial-clique-energy MRF pair design with ultra-low supply voltage 2016 ,		2
19	Design of a Thermoacoustic Sensor for Low Intensity Ultrasound Measurements Based on an Artificial Neural Network. <i>Sensors</i> , 2015 , 15, 14788-808	3.8	7

18	Simulations of Interdigitated Electrode Interactions with Gold Nanoparticles for Impedance-Based Biosensing Applications. <i>Sensors</i> , 2015 , 15, 22192-208	3.8	36
17	Developing trends in aptamer-based biosensor devices and their applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2014 , 8, 4-14	5.1	29
16	Study of interactions between cells and microbubbles in high speed centrifugation field for biomolecule delivery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2932-5	0.9	
15	Applications of low-intensity pulsed ultrasound to increase monoclonal antibody production in CHO cells using shake flasks or wavebags. <i>Ultrasonics</i> , 2014 , 54, 1439-47	3.5	13
14	Microbubble-Enhanced Cell Membrane Permeability in High Gravity Field. <i>Cellular and Molecular Bioengineering</i> , 2013 , 6, 266-278	3.9	3
13	Application of low-intensity pulsed ultrasound to increase bio-ethanol production. <i>Renewable Energy</i> , 2013 , 57, 462-468	8.1	27
12	Design and characterization of a close-proximity thermoacoustic sensor. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 1613-22	3.5	1
11	Biomolecule delivery into canola protoplasts by centrifuging cells with microbubbles. <i>FEBS Letters</i> , 2013 , 587, 285-90	3.8	3
10	Low-intensity pulsed ultrasound-mediated stimulation of hematopoietic stem/progenitor cell viability, proliferation and differentiation in vitro. <i>Biotechnology Letters</i> , 2012 , 34, 1965-73	3	37
9	Applications of ultrasound to enhance mycophenolic acid production. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1582-8	3.5	30
8	Ultrasound-enhanced monoclonal antibody production. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1949-57	3.5	10
7	Recognition of chemical compounds in contaminated water using time-dependent multiple dose cellular responses. <i>Analytica Chimica Acta</i> , 2012 , 724, 30-9	6.6	9
6	Design and implementation of therapeutic ultrasound generating circuit for dental tissue formation and tooth-root healing. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010 , 4, 49-61	5.1	18
5	Design and Implementation of Cost-Effective Probabilistic-Based Noise-Tolerant VLSI Circuits. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2009 , 56, 2411-2424	3.9	20
4	Analytical study of electronic structure in armchair graphene nanoribbons. <i>Physical Review B</i> , 2007 , 75,	3.3	229
3	A Probabilistic-Based Design for Nanoscale Computation 2004 , 133-156		20
2	A probabilistic-based design methodology for nanoscale computation 2003 ,		60
1	ULTRASOUND-ASSISTED MAGNETIC NANOPARTICLE-BASED GENE DELIVERY		1

