

Maciej Zborowski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8175536/publications.pdf>

Version: 2024-02-01

52
papers

1,522
citations

516710

16
h-index

330143

37
g-index

52
all docs

52
docs citations

52
times ranked

1649
citing authors

#	ARTICLE	IF	CITATIONS
1	SPIONs self-assembly and magnetic sedimentation in quadrupole magnets: Gaining insight into the separation mechanisms. Separation and Purification Technology, 2022, 280, 119786.	7.9	9
2	Potential of cell tracking velocimetry as an economical and portable hematology analyzer. Scientific Reports, 2022, 12, 1692.	3.3	6
3	Cortical Bone Vibrations Induced by Electromagnetic Field Pulse. IEEE Transactions on Magnetics, 2022, 58, 1-9.	2.1	0
4	Continuous-Flow Magnetic Fractionation of Red Blood Cells Based on Hemoglobin Content and Oxygen Saturation—Clinical Blood Supply Implications and Sickle Cell Anemia Treatment. Processes, 2022, 10, 927.	2.8	3
5	Microfluidic chip for graduated magnetic separation of circulating tumor cells by their epithelial cell adhesion molecule expression and magnetic nanoparticle binding. Journal of Chromatography A, 2021, 1637, 461823.	3.7	11
6	A comparison of alendronate to varying magnitude PEMF in mitigating bone loss and altering bone remodeling in skeletally mature osteoporotic rats. Bone, 2021, 143, 115761.	2.9	13
7	Intrinsically magnetic susceptibility in human blood and its potential impact on cell separation: Non-classical and intermediate monocytes have the strongest magnetic behavior in fresh human blood. Experimental Hematology, 2021, 99, 21-31.e5.	0.4	7
8	Magnetophoretic and spectral characterization of oxyhemoglobin and deoxyhemoglobin: Chemical versus enzymatic processes. PLoS ONE, 2021, 16, e0257061.	2.5	5
9	Quantification of the Mean and Distribution of Hemoglobin Content in Normal Human Blood Using Cell Tracking Velocimetry. Analytical Chemistry, 2020, 92, 1956-1962.	6.5	16
10	Self-assembly and sedimentation of 5Ånm SPIONs using horizontal, high magnetic fields and gradients. Separation and Purification Technology, 2020, 248, 117012.	7.9	12
11	Hyperferritinemia in critically ill COVID-19 patients – Is ferritin the product of inflammation or a pathogenic mediator?. Clinica Chimica Acta, 2020, 509, 249-251.	1.1	161
12	Single cell analysis of aged RBCs: quantitative analysis of the aged cells and byproducts. Analyst, The, 2019, 144, 935-942.	3.5	8
13	Quantitative characterization of the regulation of iron metabolism in glioblastoma stem-like cells using magnetophoresis. Biotechnology and Bioengineering, 2019, 116, 1644-1655.	3.3	14
14	A Subpopulation of Monocytes in Normal Human Blood Has Significant Magnetic Susceptibility: Quantification and Potential Implications. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 478-487.	1.5	13
15	Single cell magnetometry by magnetophoresis vs. bulk cell suspension magnetometry by SQUID-MPMS – A comparison. Journal of Magnetism and Magnetic Materials, 2019, 474, 152-160.	2.3	10
16	Continuous, intrinsic magnetic depletion of erythrocytes from whole blood with a quadrupole magnet and annular flow channel; pilot scale study. Biotechnology and Bioengineering, 2018, 115, 1521-1530.	3.3	9
17	Correlation of simulation/finite element analysis to the separation of intrinsically magnetic spores and red blood cells using a microfluidic magnetic deposition system. Biotechnology and Bioengineering, 2018, 115, 1288-1300.	3.3	10
18	Tessellated permanent magnet circuits for flow-through, open gradient separations of weakly magnetic materials. Journal of Magnetism and Magnetic Materials, 2017, 427, 325-330.	2.3	3

#	ARTICLE	IF	CITATIONS
19	Erratum to "Comparison of Therapeutic Magnetic Stimulation With Electric Stimulation of Spinal Column Vertebrae" [Dec 15 Art no. 5001009]. IEEE Transactions on Magnetics, 2017, 53, 1-1.	2.1	0
20	Magnetically-responsive, multifunctional drug delivery nanoparticles for elastic matrix regenerative repair. Acta Biomaterialia, 2017, 52, 171-186.	8.3	32
21	Multiparameter Evaluation of the Heterogeneity of Circulating Tumor Cells Using Integrated RNA In Situ Hybridization and Immunocytochemical Analysis. Frontiers in Oncology, 2016, 6, 234.	2.8	12
22	Magnetically Responsive Bone Marrow Mesenchymal Stem Cell-Derived Smooth Muscle Cells Maintain Their Benefits to Augmenting Elastic Matrix Neoassembly. Tissue Engineering - Part C: Methods, 2016, 22, 301-311.	2.1	12
23	Application of magnetic cytosmear for the estimation of Plasmodium falciparum gametocyte density and detection of asexual stages in asymptomatic children. Malaria Journal, 2016, 15, 113.	2.3	9
24	Comparison of Therapeutic Magnetic Stimulation With Electric Stimulation of Spinal Column Vertebrae. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	10
25	Circular Halbach Array for Fast Magnetic Separation of Hyaluronan-Expressing Tissue Progenitors. Analytical Chemistry, 2015, 87, 9908-9915.	6.5	13
26	Inverted Linear Halbach Array for Separation of Magnetic Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 3449-3452.	2.1	14
27	Simultaneous, single particle, magnetization and size measurements of micron sized, magnetic particles. Journal of Magnetism and Magnetic Materials, 2012, 324, 4189-4199.	2.3	26
28	Quantification of changes in oxygen release from red blood cells as a function of age based on magnetic susceptibility measurements. Analyst, The, 2011, 136, 2996.	3.5	23
29	Rare Cell Separation and Analysis by Magnetic Sorting. Analytical Chemistry, 2011, 83, 8050-8056.	6.5	165
30	Magnetic Pressure as a Scalar Representation of Field Effects in Magnetic Suspensions. , 2010, 1311, 111-117.		2
31	Decibel Attenuation of Pulsed Electromagnetic Field (PEMF) in Blood and Cortical Bone Determined Experimentally and from the Theory of Ohmic Losses. Annals of Biomedical Engineering, 2006, 34, 1030-1041.	2.5	9
32	Quality determination of magnetic labeling reagents by cell magnetophoresis measurement. FASEB Journal, 2006, 20, A526.	0.5	0
33	Magnetic Cell Sorting. , 2005, 295, 291-300.		22
34	Magnetic Field Visualization in Applications to Pulsed Electromagnetic Field Stimulation of Tissues. Annals of Biomedical Engineering, 2003, 31, 195-206.	2.5	15
35	Red Blood Cell Magnetophoresis. Biophysical Journal, 2003, 84, 2638-2645.	0.5	223
36	SEPARATIONS BASED ON MAGNETOPHORETIC MOBILITY. Separation Science and Technology, 2002, 37, 3611-3633.	2.5	49

#	ARTICLE	IF	CITATIONS
37	Measurement of CD2 expression levels of IFN- γ -treated fibrosarcomas using cell tracking velocimetry. <i>Cytometry</i> , 2001, 44, 137-147.	1.8	19
38	Mobility measurements of immunomagnetically labeled cells allow quantitation of secondary antibody binding amplification. <i>Biotechnology and Bioengineering</i> , 2001, 75, 642-655.	3.3	31
39	Separation of a Breast Cancer Cell Line from Human Blood Using a Quadrupole Magnetic Flow Sorter. <i>Biotechnology Progress</i> , 2001, 17, 1145-1155.	2.6	48
40	Magnetophoretic mobilities correlate to antibody binding capacities. <i>Cytometry</i> , 2000, 40, 307-315.	1.8	58
41	Quantification of cellular properties from external fields and resulting induced velocity: Cellular hydrodynamic diameter. , 1999, 64, 509-518.		21
42	Quantification of cellular properties from external fields and resulting induced velocity: Magnetic susceptibility. <i>Biotechnology and Bioengineering</i> , 1999, 64, 519-526.	3.3	37
43	Detection of rare MCF-7 breast carcinoma cells from mixtures of human peripheral leukocytes by magnetic deposition analysis. <i>Cytometry</i> , 1999, 36, 294-302.	1.8	32
44	Flow Rate Optimization for the Quadrupole Magnetic Cell Sorter. <i>Analytical Chemistry</i> , 1999, 71, 3799-3807.	6.5	73
45	Quantification of cellular properties from external fields and resulting induced velocity: Magnetic susceptibility. <i>Biotechnology and Bioengineering</i> , 1999, 64, 519-526.	3.3	1
46	Flow Through, Immunomagnetic Cell Separation. <i>Biotechnology Progress</i> , 1998, 14, 141-148.	2.6	121
47	Theoretical analysis of cell separation based on cell surface marker density. <i>Biotechnology and Bioengineering</i> , 1998, 59, 10-20.	3.3	38
48	Continuous, flow-through immunomagnetic cell sorting in a quadrupole field. , 1998, 33, 469-475.		78
49	Quantitative and Qualitative Analysis of Bacteria in Er(III) Solution by Thin-Film Magnetopheresis. <i>Applied and Environmental Microbiology</i> , 1993, 59, 1187-1193.	3.1	12
50	Selective removal of anti-acetylcholine receptor antibody in the low temperature operation of membrane plasma fractionation. <i>Journal of Clinical Apheresis</i> , 1992, 7, 81-86.	1.3	3
51	Backwashing procedure for on-line reuse of a plasma fractionator in cryofiltration. <i>Journal of Clinical Apheresis</i> , 1992, 7, 87-92.	1.3	2
52	Study on analytical Magnetic Separation system of Bacterial Species. <i>Journal of Life Support Technology</i> , 1991, 4, 17-27.	0.0	2