

# Maciej Zborowski

## List of Publications by Year in descending order

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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	Red Blood Cell Magnetophoresis. <i>Biophysical Journal</i> , 2003, 84, 2638-2645.	0.5	223
2	Rare Cell Separation and Analysis by Magnetic Sorting. <i>Analytical Chemistry</i> , 2011, 83, 8050-8056.	6.5	165
3	Hyperferritinemia in critically ill COVID-19 patients – Is ferritin the product of inflammation or a pathogenic mediator?. <i>Clinica Chimica Acta</i> , 2020, 509, 249-251.	1.1	161
4	Flow Through, Immunomagnetic Cell Separation. <i>Biotechnology Progress</i> , 1998, 14, 141-148.	2.6	121
5	Continuous, flow-through immunomagnetic cell sorting in a quadrupole field. , 1998, 33, 469-475.		78
6	Flow Rate Optimization for the Quadrupole Magnetic Cell Sorter. <i>Analytical Chemistry</i> , 1999, 71, 3799-3807.	6.5	73
7	Magnetophoretic mobilities correlate to antibody binding capacities. <i>Cytometry</i> , 2000, 40, 307-315.	1.8	58
8	SEPARATIONS BASED ON MAGNETOPHORETIC MOBILITY. <i>Separation Science and Technology</i> , 2002, 37, 3611-3633.	2.5	49
9	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
10	Theoretical analysis of cell separation based on cell surface marker density. <i>Biotechnology and Bioengineering</i> , 1998, 59, 10-20.	3.3	38
11	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
12	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
13	Magnetically-responsive, multifunctional drug delivery nanoparticles for elastic matrix regenerative repair. <i>Acta Biomaterialia</i> , 2017, 52, 171-186.	8.3	32
14	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
15	Simultaneous, single particle, magnetization and size measurements of micron sized, magnetic particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 4189-4199.	2.3	26
16	Quantification of changes in oxygen release from red blood cells as a function of age based on magnetic susceptibility measurements. <i>Analyst, The</i> , 2011, 136, 2996.	3.5	23
17	Magnetic Cell Sorting. , 2005, 295, 291-300.		22
18	Quantification of cellular properties from external fields and resulting induced velocity: Cellular hydrodynamic diameter. , 1999, 64, 509-518.		21

#	ARTICLE	IF	CITATIONS
19	Measurement of CD2 expression levels of IFN- $\gamma$ -treated fibrosarcomas using cell tracking velocimetry. <i>Cytometry</i> , 2001, 44, 137-147.	1.8	19
20	Quantification of the Mean and Distribution of Hemoglobin Content in Normal Human Blood Using Cell Tracking Velocimetry. <i>Analytical Chemistry</i> , 2020, 92, 1956-1962.	6.5	16
21	Magnetic Field Visualization in Applications to Pulsed Electromagnetic Field Stimulation of Tissues. <i>Annals of Biomedical Engineering</i> , 2003, 31, 195-206.	2.5	15
22	Inverted Linear Halbach Array for Separation of Magnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3449-3452.	2.1	14
23	Quantitative characterization of the regulation of iron metabolism in glioblastoma stem-like cells using magnetophoresis. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1644-1655.	3.3	14
24	Circular Halbach Array for Fast Magnetic Separation of Hyaluronan-Expressing Tissue Progenitors. <i>Analytical Chemistry</i> , 2015, 87, 9908-9915.	6.5	13
25	A Subpopulation of Monocytes in Normal Human Blood Has Significant Magnetic Susceptibility: Quantification and Potential Implications. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 478-487.	1.5	13
26	A comparison of alendronate to varying magnitude PEMF in mitigating bone loss and altering bone remodeling in skeletally mature osteoporotic rats. <i>Bone</i> , 2021, 143, 115761.	2.9	13
27	Multiparameter Evaluation of the Heterogeneity of Circulating Tumor Cells Using Integrated RNA In Situ Hybridization and Immunocytochemical Analysis. <i>Frontiers in Oncology</i> , 2016, 6, 234.	2.8	12
28	Magnetically Responsive Bone Marrow Mesenchymal Stem Cell-Derived Smooth Muscle Cells Maintain Their Benefits to Augmenting Elastic Matrix Neoassembly. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 301-311.	2.1	12
29	Self-assembly and sedimentation of 5Ånm SPIONs using horizontal, high magnetic fields and gradients. <i>Separation and Purification Technology</i> , 2020, 248, 117012.	7.9	12
30	Quantitative and Qualitative Analysis of Bacteria in Er(III) Solution by Thin-Film Magnetophoresis. <i>Applied and Environmental Microbiology</i> , 1993, 59, 1187-1193.	3.1	12
31	Microfluidic chip for graduated magnetic separation of circulating tumor cells by their epithelial cell adhesion molecule expression and magnetic nanoparticle binding. <i>Journal of Chromatography A</i> , 2021, 1637, 461823.	3.7	11
32	Comparison of Therapeutic Magnetic Stimulation With Electric Stimulation of Spinal Column Vertebrae. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-9.	2.1	10
33	Correlation of simulation/finite element analysis to the separation of intrinsically magnetic spores and red blood cells using a microfluidic magnetic deposition system. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1288-1300.	3.3	10
34	Single cell magnetometry by magnetophoresis vs. bulk cell suspension magnetometry by SQUID-MPMS – A comparison. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 152-160.	2.3	10
35	Decibel Attenuation of Pulsed Electromagnetic Field (PEMF) in Blood and Cortical Bone Determined Experimentally and from the Theory of Ohmic Losses. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1030-1041.	2.5	9
36	Application of magnetic cytosmear for the estimation of Plasmodium falciparum gametocyte density and detection of asexual stages in asymptomatic children. <i>Malaria Journal</i> , 2016, 15, 113.	2.3	9

#	ARTICLE	IF	CITATIONS
37	Continuous, intrinsic magnetic depletion of erythrocytes from whole blood with a quadrupole magnet and annular flow channel; pilot scale study. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1521-1530.	3.3	9
38	SPIONs self-assembly and magnetic sedimentation in quadrupole magnets: Gaining insight into the separation mechanisms. <i>Separation and Purification Technology</i> , 2022, 280, 119786.	7.9	9
39	Single cell analysis of aged RBCs: quantitative analysis of the aged cells and byproducts. <i>Analyst, The</i> , 2019, 144, 935-942.	3.5	8
40	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. <i>Experimental Hematology</i> , 2021, 99, 21-31.e5.	0.4	7
41	Potential of cell tracking velocimetry as an economical and portable hematology analyzer. <i>Scientific Reports</i> , 2022, 12, 1692.	3.3	6
42	Magnetophoretic and spectral characterization of oxyhemoglobin and deoxyhemoglobin: Chemical versus enzymatic processes. <i>PLoS ONE</i> , 2021, 16, e0257061.	2.5	5
43	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
44	Tessellated permanent magnet circuits for flow-through, open gradient separations of weakly magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 325-330.	2.3	3
45	Continuous-Flow Magnetic Fractionation of Red Blood Cells Based on Hemoglobin Content and Oxygen Saturationâ€™Clinical Blood Supply Implications and Sickle Cell Anemia Treatment. <i>Processes</i> , 2022, 10, 927.	2.8	3
46	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
47	Magnetic Pressure as a Scalar Representation of Field Effects in Magnetic Suspensions. , 2010, 1311, 111-117.		2
48	Study on analytical Magnetic Separation system of Bacterial Species. <i>Journal of Life Support Technology</i> , 1991, 4, 17-27.	0.0	2
49	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
50	Erratum to â€œComparison of Therapeutic Magnetic Stimulation With Electric Stimulation of Spinal Column Vertebraeâ€™[Dec 15 Art no. 5001009]. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-1.	2.1	0
51	Quality determination of magnetic labeling reagents by cell magnetophoresis measurement. <i>FASEB Journal</i> , 2006, 20, A526.	0.5	0
52	Cortical Bone Vibrations Induced by Electromagnetic Field Pulse. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-9.	2.1	0