

Jenifer Gmez-Pastora

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.

23
papers

721
citations

9
h-index

26
g-index

27
ext. papers

898
ext. citations

5.8
avg, IF

4.36
L-index

#	Paper	IF	Citations
23	Potential of cell tracking velocimetry as an economical and portable hematology analyzer.. <i>Scientific Reports</i> , 2022 , 12, 1692	4.9	1
22	SPIONs self-assembly and magnetic sedimentation in quadrupole magnets: Gaining insight into the separation mechanisms.. <i>Separation and Purification Technology</i> , 2022 , 280,	8.3	2
21	Continuous-Flow Magnetic Fractionation of Red Blood Cells Based on Hemoglobin Content and Oxygen Saturation Clinical Blood Supply Implications and Sickle Cell Anemia Treatment. <i>Processes</i> , 2022 , 10, 927	2.9	0
20	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	3.1	3
19	Recovery of Magnetic Catalysts: Advanced Design for Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 16780-16790	3.9	1
18	Magnetophoretic and spectral characterization of oxyhemoglobin and deoxyhemoglobin: Chemical versus enzymatic processes. <i>PLoS ONE</i> , 2021 , 16, e0257061	3.7	2
17	Self-Assembly and sedimentation of 5 nm SPIONs using horizontal, high magnetic fields and gradients. <i>Separation and Purification Technology</i> , 2020 , 248, 117012-117012	8.3	5
16	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	6.2	93
15	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	7.8	8
14	Formation and manipulation of ferrofluid droplets with magnetic fields in a microdevice: a numerical parametric study. <i>Soft Matter</i> , 2020 , 16, 9506-9518	3.6	3
13	Numerical Analysis of Bead Magnetophoresis from Flowing Blood in a Continuous-Flow Microchannel: Implications to the Bead-Fluid Interactions. <i>Scientific Reports</i> , 2019 , 9, 7265	4.9	14
12	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	4.6	7
11	Two-Step Numerical Approach To Predict Ferrofluid Droplet Generation and Manipulation inside Multilaminar Flow Chambers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10065-10080	3.8	8
10	The Reverse of Controlled Release: Controlled Sequestration of Species and Biotoxins into Nanoparticles (NPs). <i>From Biomaterials Towards Medical Devices</i> , 2018 , 207-243		4
9	Computational modeling and fluorescence microscopy characterization of a two-phase magnetophoretic microsystem for continuous-flow blood detoxification. <i>Lab on A Chip</i> , 2018 , 18, 1593-1606	7.2	11
8	Flow patterns and mass transfer performance of miscible liquid-liquid flows in various microchannels: Numerical and experimental studies. <i>Chemical Engineering Journal</i> , 2018 , 344, 487-497	14.7	20
7	Review and perspectives on the use of magnetic nanophotocatalysts (MNPCs) in water treatment. <i>Chemical Engineering Journal</i> , 2017 , 310, 407-427	14.7	187

6	Magnetic Bead Separation from Flowing Blood in a Two-Phase Continuous-Flow Magnetophoretic Microdevice: Theoretical Analysis through Computational Fluid Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7466-7477	3.8	16
5	On-chip polyelectrolyte coating onto magnetic droplets - towards continuous flow assembly of drug delivery capsules. <i>Lab on A Chip</i> , 2017 , 17, 3785-3795	7.2	29
4	Analysis of separators for magnetic beads recovery: From large systems to multifunctional microdevices. <i>Separation and Purification Technology</i> , 2017 , 172, 16-31	8.3	44
3	Computational analysis of facilitated transport in a microfluidic device. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1189-1194	0.6	
2	Computational Analysis of a Two-Phase Continuous-Flow Magnetophoretic Microsystem for Particle Separation from Biological Fluids. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1183-1188	0.6	1
1	Recent progress and future challenges on the use of high performance magnetic nano-adsorbents in environmental applications. <i>Chemical Engineering Journal</i> , 2014 , 256, 187-204	14.7	261