

Jenifer GÃ³mez-Pastora

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,058
citations

758635

12
h-index

610482

24
g-index

27
all docs

27
docs citations

27
times ranked

1690
citing authors

#	ARTICLE	IF	CITATIONS
1	SPIONs self-assembly and magnetic sedimentation in quadrupole magnets: Gaining insight into the separation mechanisms. <i>Separation and Purification Technology</i> , 2022, 280, 119786.	3.9	9
2	Potential of cell tracking velocimetry as an economical and portable hematology analyzer. <i>Scientific Reports</i> , 2022, 12, 1692.	1.6	6
3	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.	1.3	3
4	Novel Approaches Concerning the Numerical Modeling of Particle and Cell Separation in Microchannels: A Review. <i>Processes</i> , 2022, 10, 1226.	1.3	10
5	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.	0.2	7
6	Recovery of Magnetic Catalysts: Advanced Design for Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16780-16790.	1.8	9
7	Magnetophoretic and spectral characterization of oxyhemoglobin and deoxyhemoglobin: Chemical versus enzymatic processes. <i>PLoS ONE</i> , 2021, 16, e0257061.	1.1	5
8	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.	3.2	16
9	Formation and manipulation of ferrofluid droplets with magnetic fields in a microdevice: a numerical parametric study. <i>Soft Matter</i> , 2020, 16, 9506-9518.	1.2	17
10	Self-assembly and sedimentation of 5Ånm SPIONs using horizontal, high magnetic fields and gradients. <i>Separation and Purification Technology</i> , 2020, 248, 117012.	3.9	12
11	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.	0.5	161
12	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.	1.6	23
13	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.	1.1	13
14	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.	1.5	12
15	The Reverse of Controlled Release: Controlled Sequestration of Species and Biotoxins into Nanoparticles (NPs). <i>From Biomaterials Towards Medical Devices</i> , 2018, , 207-243.	0.0	9
16	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.	3.1	21
17	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.	6.6	31
18	Review and perspectives on the use of magnetic nanophotocatalysts (MNPCs) in water treatment. <i>Chemical Engineering Journal</i> , 2017, 310, 407-427.	6.6	247

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19	Magnetic Bead Separation from Flowing Blood in a Two-Phase Continuous-Flow Magnetophoretic Microdevice: Theoretical Analysis through Computational Fluid Dynamics Simulation. Journal of Physical Chemistry C, 2017, 121, 7466-7477.	1.5	21
20	On-chip polyelectrolyte coating onto magnetic droplets â€ towards continuous flow assembly of drug delivery capsules. Lab on A Chip, 2017, 17, 3785-3795.	3.1	38
21	Analysis of separators for magnetic beads recovery: From large systems to multifunctional microdevices. Separation and Purification Technology, 2017, 172, 16-31.	3.9	61
22	Computational analysis of facilitated transport in a microfluidic device. Computer Aided Chemical Engineering, 2017, 40, 1189-1194.	0.3	0
23	Computational Analysis of a Two-Phase Continuous-Flow Magnetophoretic Microsystem for Particle Separation from Biological Fluids. Computer Aided Chemical Engineering, 2017, 40, 1183-1188.	0.3	1
24	Recent progress and future challenges on the use of high performance magnetic nano-adsorbents in environmental applications. Chemical Engineering Journal, 2014, 256, 187-204.	6.6	325
25	Computational Analysis of Magnetic Droplet Generation and Manipulation in Microfluidic Devices. , 0, , .		0