Paula Fraga-Garca

List of Publications by Citations

28 papers	617 citations	15 h-index	24 g-index
29 ext. papers	776 ext. citations	5.4 avg, IF	4.32 L-index

#	Paper	IF	Citations
28	Nature of Interactions of Amino Acids with Bare Magnetite Nanoparticles. *Journal of Physical Chemistry C*, **2015**, 119, 23032-23041	3.8	104
27	Oxidation of magnetite nanoparticles: impact on surface and crystal properties. *CrystEngComm*, **2017**, 19, 246-255	3.3	101
26	High-gradient magnetic separation for technical scale protein recovery using low cost magnetic nanoparticles. *Separation and Purification Technology*, **2015**, 150, 29-36	8.3	63
25	Bare Iron Oxide Nanoparticles for Magnetic Harvesting of Microalgae: From Interaction Behavior to Process Realization. *Nanomaterials*, **2018**, 8,	5.4	36
24	Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. *ACS Omega*, **2019**, 4, 3790-3799	3.9	34
23	Design of Interactions Between Nanomaterials and Proteins: A Highly Affine Peptide Tag to Bare Iron Oxide Nanoparticles for Magnetic Protein Separation. *Biotechnology Journal*, **2019**, 14, e1800055	5.6	32
22	Formation of iron oxide nanoparticles for the photooxidation of water: Alteration of finite size effects from ferrihydrite to hematite. *Scientific Reports*, **2017**, 7, 12609	4.9	28
21	Magnetic Separation in Bioprocessing Beyond the Analytical Scale: From Biotechnology to the Food Industry. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 233	5.8	27
20	Peptide binding to metal oxide nanoparticles. *Faraday Discussions*, **2017**, 204, 233-250	3.6	26
19	Bio-nano interactions: cellulase on iron oxide nanoparticle surfaces. *Adsorption*, **2017**, 23, 281-292	2.6	24
18	Bio-nano interactions: binding proteins, polysaccharides, lipids and nucleic acids onto magnetic nanoparticles. *Biomaterials Research*, **2021**, 25, 12	16.8	20
17	Impact of nanoparticle aggregation on protein recovery through a pentadentate chelate ligand on magnetic carriers. *ACS Applied Materials & Interfaces*, **2014**, 6, 13607-16	9.5	19
16	Oleate coating of iron oxide nanoparticles in aqueous systems: the role of temperature and surfactant concentration. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	19
15	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. *Scientific Reports*, **2017**, 7, 14047	4.9	17
14	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. *Engineering in Life Sciences*, **2018**, 18, 84-100	3.4	16
13	Carbon nanotubes-A resin for electrochemically modulated liquid chromatography. *Journal of Separation Science*, **2017**, 40, 1176-1183	3.4	12
12	Adsorption of organic molecules on carbon surfaces: Experimental data and molecular dynamics simulation considering multiple protonation states. *Journal of Colloid and Interface Science*, **2021**, 589, 424-437	9.3	9

List of Publications

11	A Carbon Nanotube Packed Bed Electrode for Small Molecule Electrosorption: An Electrochemical and Chromatographic Approach for Process Description. *Applied Sciences (Switzerland)*, **2020**, 10, 1133	2.6	8
10	Seeking Innovative Affinity Approaches: A Performance Comparison between Magnetic Nanoparticle Agglomerates and Chromatography Resins for Antibody Recovery. *ACS Applied Materials & Interfaces*, **2020**, 12, 39967-39978	9.5	6
9	Rational Design of Iron Oxide Binding Peptide Tags. *Langmuir*, **2019**, 35, 8472-8481	4	4
8	Potential-Controlled Tensiometry: A Tool for Understanding Wetting and Surface Properties of Conductive Powders by Electroimbibition. *Analytical Chemistry*, **2018**, 90, 14131-14136	7.8	4
7	Magnetic Separation of Antibodies with High Binding Capacity by Site-Directed Immobilization of Protein A-Domains to Bare Iron Oxide Nanoparticles. *ACS Applied Nano Materials*, **2021**, 4, 4956-4963	5.6	3
6	Design of 3D Carbon Nanotube Monoliths for Potential-Controlled Adsorption. *Applied Sciences (Switzerland)*, **2021**, 11, 9390	2.6	2
5	Iron Oxide Nanoparticles: Multiwall Carbon Nanotube Composite Materials for Batch or Chromatographic Biomolecule Separation. *Nanoscale Research Letters*, **2021**, 16, 30	5	1
4	The electrosorptive response of a carbon nanotube flow-through electrode in aqueous systems. *Chemical Engineering Journal*, **2022**, 428, 131009	14.7	1
3	Potential-Controlled Chromatography on Carbon Nanotubes for Biomolecule Separation. *Chemie-Ingenieur-Technik*, **2016**, 88, 1256-1256	0.8	
2	Magnetic Separation: Prospects for Downstream Processing. *Chemie-Ingenieur-Technik*, **2018**, 90, 1213-1233	2.3	
1	Natural magnetite ore as a harvesting agent for saline microalgae Microchloropsis salina. *Bioresource Technology Reports*, **2021**, 15, 100798	4.1	