

Paula Fraga-García

List of Publications by Year in descending order

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29
papers

961
citations

516561
16
h-index

526166
27
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29
all docs

29
docs citations

29
times ranked

1297
citing authors

#	ARTICLE	IF	CITATIONS
1	The electrosorptive response of a carbon nanotube flow-through electrode in aqueous systems. <i>Chemical Engineering Journal</i> , 2022, 428, 131009.	6.6	6
2	Iron Oxide Nanoparticles: Multiwall Carbon Nanotube Composite Materials for Batch or Chromatographic Biomolecule Separation. <i>Nanoscale Research Letters</i> , 2021, 16, 30.	3.1	3
3	Bio-nano interactions: binding proteins, polysaccharides, lipids and nucleic acids onto magnetic nanoparticles. <i>Biomaterials Research</i> , 2021, 25, 12.	3.2	71
4	Adsorption of organic molecules on carbon surfaces: Experimental data and molecular dynamics simulation considering multiple protonation states. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 424-437.	5.0	15
5	Magnetic Separation of Antibodies with High Binding Capacity by Site-Directed Immobilization of Protein A-Domains to Bare Iron Oxide Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 4956-4963.	2.4	19
6	Natural magnetite ore as a harvesting agent for saline microalgae <i>Microchloropsis salina</i> . <i>Bioresource Technology Reports</i> , 2021, 15, 100798.	1.5	2
7	Gold-iron oxide nanohybrids: insights into colloidal stability and surface-enhanced Raman detection. <i>Nanoscale Advances</i> , 2021, 3, 6438-6445.	2.2	10
8	Design of 3D Carbon Nanotube Monoliths for Potential-Controlled Adsorption. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9390.	1.3	3
9	Seeking Innovative Affinity Approaches: A Performance Comparison between Magnetic Nanoparticle Agglomerates and Chromatography Resins for Antibody Recovery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39967-39978.	4.0	11
10	A Carbon Nanotube Packed Bed Electrode for Small Molecule Electrosorption: An Electrochemical and Chromatographic Approach for Process Description. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1133.	1.3	9
11	Magnetic Separation in Bioprocessing Beyond the Analytical Scale: From Biotechnology to the Food Industry. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 233.	2.0	53
12	Rational Design of Iron Oxide Binding Peptide Tags. <i>Langmuir</i> , 2019, 35, 8472-8481.	1.6	5
13	Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. <i>ACS Omega</i> , 2019, 4, 3790-3799.	1.6	54
14	Design of Interactions Between Nanomaterials and Proteins: A Highly Affine Peptide Tag to Bare Iron Oxide Nanoparticles for Magnetic Protein Separation. <i>Biotechnology Journal</i> , 2019, 14, 1800055.	1.8	45
15	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. <i>Engineering in Life Sciences</i> , 2018, 18, 84-100.	2.0	26
16	Potential-Controlled Tensiometry: A Tool for Understanding Wetting and Surface Properties of Conductive Powders by Electroimbibition. <i>Analytical Chemistry</i> , 2018, 90, 14131-14136.	3.2	5
17	Magnetic Separation: Prospects for Downstream Processing. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1213-1213.	0.4	0
18	Bare Iron Oxide Nanoparticles for Magnetic Harvesting of Microalgae: From Interaction Behavior to Process Realization. <i>Nanomaterials</i> , 2018, 8, 292.	1.9	56

#	ARTICLE	IF	CITATIONS
19	Carbon nanotubes-A resin for electrochemically modulated liquid chromatography. <i>Journal of Separation Science</i> , 2017, 40, 1176-1183.	1.3	12
20	Peptide binding to metal oxide nanoparticles. <i>Faraday Discussions</i> , 2017, 204, 233-250.	1.6	38
21	Bio-nano interactions: cellulase on iron oxide nanoparticle surfaces. <i>Adsorption</i> , 2017, 23, 281-292.	1.4	43
22	Oxidation of magnetite nanoparticles: impact on surface and crystal properties. <i>CrystEngComm</i> , 2017, 19, 246-255.	1.3	148
23	Formation of iron oxide nanoparticles for the photooxidation of water: Alteration of finite size effects from ferrihydrite to hematite. <i>Scientific Reports</i> , 2017, 7, 12609.	1.6	44
24	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. <i>Scientific Reports</i> , 2017, 7, 14047.	1.6	25
25	Oleate coating of iron oxide nanoparticles in aqueous systems: the role of temperature and surfactant concentration. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	25
26	Potential-Controlled Chromatography on Carbon Nanotubes for Biomolecule Separation. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1256-1256.	0.4	0
27	High-gradient magnetic separation for technical scale protein recovery using low cost magnetic nanoparticles. <i>Separation and Purification Technology</i> , 2015, 150, 29-36.	3.9	70
28	Nature of Interactions of Amino Acids with Bare Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23032-23041.	1.5	139
29	Impact of Nanoparticle Aggregation on Protein Recovery through a Pentadentate Chelate Ligand on Magnetic Carriers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13607-13616.	4.0	24