Sebastian P Schwaminger

List of Publications by Year
in descending order

46	1,271	393982	360668
papers	citations	19 h-index	35 g-index

47	47	47	1600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxidation of magnetite nanoparticles: impact on surface and crystal properties. CrystEngComm, 2017, 19, 246-255.	1.3	148
2	Nature of Interactions of Amino Acids with Bare Magnetite Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 23032-23041.	1.5	139
3	Influencing factors in the CO-precipitation process of superparamagnetic iron oxide nano particles: A model based study. Journal of Magnetism and Magnetic Materials, 2015, 377, 81-89.	1.0	126
4	Controlled Synthesis of Magnetic Iron Oxide Nanoparticles: Magnetite or Maghemite?. Crystals, 2020, 10, 214.	1.0	59
5	Bare Iron Oxide Nanoparticles for Magnetic Harvesting of Microalgae: From Interaction Behavior to Process Realization. Nanomaterials, 2018, 8, 292.	1.9	56
6	Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. ACS Omega, 2019, 4, 3790-3799.	1.6	54
7	Magnetic Separation in Bioprocessing Beyond the Analytical Scale: From Biotechnology to the Food Industry. Frontiers in Bioengineering and Biotechnology, 2019, 7, 233.	2.0	53
8	Immobilization of Cellulase on Magnetic Nanocarriers. ChemistryOpen, 2016, 5, 183-187.	0.9	45
9	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, 1800055.	1.8	45
10	Formation of iron oxide nanoparticles for the photooxidation of water: Alteration of finite size effects from ferrihydrite to hematite. Scientific Reports, 2017, 7, 12609.	1.6	44
11	Bio-nano interactions: cellulase on iron oxide nanoparticle surfaces. Adsorption, 2017, 23, 281-292.	1.4	43
12	Peptide binding to metal oxide nanoparticles. Faraday Discussions, 2017, 204, 233-250.	1.6	38
13	Immobilization of PETase enzymes on magnetic iron oxide nanoparticles for the decomposition of microplastic PET. Nanoscale Advances, 2021, 3, 4395-4399.	2.2	34
14	Improvement of adhesion strength of self-adhesive silicone rubber on thermoplastic substrates â€“ Comparison of an atmospheric pressure plasma jet (APPJ) and a PyrosilÂ® flame. International Journal of Adhesion and Adhesives, 2016, 66, 65-72.	1.4	32
15	Immunomagnetic Separation of Microorganisms with Iron Oxide Nanoparticles. Chemosensors, 2020, 8, 17.	1.8	29
16	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. Engineering in Life Sciences, 2018, 18, 84-100.	2.0	26
17	Bare Iron Oxide Nanoparticles as Drug Delivery Carrier for the Short Cationic Peptide Lasioglossin. Pharmaceuticals, 2021, 14, 405.	1.7	26
18	Oleate coating of iron oxide nanoparticles in aqueous systems: the role of temperature and surfactant concentration. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	25

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19	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. Scientific Reports, 2017, 7, 14047.	1.6	25
20	Magnetically Induced Aggregation of Iron Oxide Nanoparticles for Carrier Flotation Strategies. ACS Applied Materials & Interfaces, 2021, 13, 20830-20844.	4.0	19
21	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.	2.4	19
22	The Effect of pH and Viscosity on Magnetophoretic Separation of Iron Oxide Nanoparticles. Magnetochemistry, 2021, 7, 80.	1.0	16
23	Selective eneâ€reductase immobilization to magnetic nanoparticles through a novel affinity tag. Biotechnology Journal, 2021, 16, e2000366.	1.8	15
24	DNA Binding to the Silica: Cooperative Adsorption in Action. Langmuir, 2021, 37, 5902-5908.	1.6	14
25	Magnetic Recovery of Cellulase from Cellulose Substrates with Bare Iron Oxide Nanoparticles. ChemNanoMat, 2019, 5, 422-426.	1.5	13
26	Buffer Influence on the Amino Acid Silica Interaction. ChemPhysChem, 2020, 21, 2347-2356.	1.0	13
27	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.	4.0	11
28	Visualization of USPIO-labeled melt-electrowritten scaffolds by non-invasive magnetic resonance imaging. Biomaterials Science, 2021, 9, 4607-4612.	2.6	11
29	Calcium Oxalate Crystallization: Influence of pH, Energy Input, and Supersaturation Ratio on the Synthesis of Artificial Kidney Stones. ACS Omega, 2021, 6, 26566-26574.	1.6	11
30	Current practices with commercial scale bovine lactoferrin production and alternative approaches. International Dairy Journal, 2022, 126, 105263.	1.5	11
31	Reactivity of Re2O7 in aromatic solvents â€“ Cleavage of a Î²-O-4 lignin model substrate by Lewis-acidic rhenium oxide nanoparticles. Journal of Catalysis, 2019, 373, 190-200.	3.1	10
32	Gold-iron oxide nanohybrids: insights into colloidal stability and surface-enhanced Raman detection. Nanoscale Advances, 2021, 3, 6438-6445.	2.2	10
33	Purification of a peptide tagged protein via an affinity chromatographic process with underivatized silica. Engineering in Life Sciences, 2021, 21, 549-557.	2.0	7
34	Anaplerotic Pathways in Halomonas elongata: The Role of the Sodium Gradient. Frontiers in Microbiology, 2020, 11, 561800.	1.5	6
35	Insights on Alanine and Arginine Binding to Silica with Atomic Resolution. Journal of Physical Chemistry Letters, 2021, 12, 9384-9390.	2.1	6
36	Direct capture and selective elution of a secreted polyglutamateâ€tagged nanobody using bare magnetic nanoparticles. Biotechnology Journal, 2022, 17, e2100577.	1.8	6

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37	Potential-Controlled Tensiometry: A Tool for Understanding Wetting and Surface Properties of Conductive Powders by Electroimbibition. Analytical Chemistry, 2018, 90, 14131-14136.	3.2	5
38	Rational Design of Iron Oxide Binding Peptide Tags. Langmuir, 2019, 35, 8472-8481.	1.6	5
39	Characterization of an active ingredient made of nanoscale iron(oxyhydr)oxide for the treatment of hyperphosphatemia. RSC Advances, 2021, 11, 17669-17682.	1.7	5
40	Detection of targeted bacteria species on filtration membranes. Analyst, The, 2021, 146, 3549-3556.	1.7	3
41	Iron Oxide Nanoparticles: Multiwall Carbon Nanotube Composite Materials for Batch or Chromatographic Biomolecule Separation. Nanoscale Research Letters, 2021, 16, 30.	3.1	3
42	Supramolecular effects in self-assembled monolayers: general discussion. Faraday Discussions, 2017, 204, 123-158.	1.6	2
43	Supramolecular systems at liquidâ€“solid interfaces: general discussion. Faraday Discussions, 2017, 204, 271-295.	1.6	2
44	Crystal Structure and Spectroscopic Analysis of the Compatible Solute NÎ³-Acetyl-L-2,4-Diaminobutyric Acid. Crystals, 2020, 10, 1136.	1.0	1
45	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	1.6	0
46	Preparing macromolecular systems on surfaces: general discussion. Faraday Discussions, 2017, 204, 395-418.	1.6	0