

# Sebastian P Schwaminger

## 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.

45  
papers

752  
citations

16  
h-index

27  
g-index

47  
ext. papers

994  
ext. citations

4.4  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
45	Direct capture and selective elution of a secreted polyglutamate-tagged nanobody using bare magnetic nanoparticles.. <i>Biotechnology Journal</i> , <b>2022</b> , e2100577	5.6	0
44	Current practices with commercial scale bovine lactoferrin production and alternative approaches. <i>International Dairy Journal</i> , <b>2021</b> , 126, 105263	3.5	1
43	Calcium Oxalate Crystallization: Influence of pH, Energy Input, and Supersaturation Ratio on the Synthesis of Artificial Kidney Stones. <i>ACS Omega</i> , <b>2021</b> , 6, 26566-26574	3.9	3
42	Magnetically Induced Aggregation of Iron Oxide Nanoparticles for Carrier Flotation Strategies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20830-20844	9.5	5
41	Bare Iron Oxide Nanoparticles as Drug Delivery Carrier for the Short Cationic Peptide Lasioglossin. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	4
40	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> , <b>2021</b> , 4, 4956-4963	5.6	3
39	DNA Binding to the Silica: Cooperative Adsorption in Action. <i>Langmuir</i> , <b>2021</b> , 37, 5902-5908	4	5
38	The Effect of pH and Viscosity on Magnetophoretic Separation of Iron Oxide Nanoparticles. <i>Magnetochemistry</i> , <b>2021</b> , 7, 80	3.1	4
37	Purification of a peptide tagged protein via an affinity chromatographic process with underivatized silica. <i>Engineering in Life Sciences</i> , <b>2021</b> , 21, 549-557	3.4	1
36	Selective ene-reductase immobilization to magnetic nanoparticles through a novel affinity tag. <i>Biotechnology Journal</i> , <b>2021</b> , 16, e2000366	5.6	6
35	Detection of targeted bacteria species on filtration membranes. <i>Analyst, The</i> , <b>2021</b> , 146, 3549-3556	5	2
34	Immobilization of PETase enzymes on magnetic iron oxide nanoparticles for the decomposition of microplastic PET. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4395-4399	5.1	4
33	Characterization of an active ingredient made of nanoscale iron(oxyhydr)oxide for the treatment of hyperphosphatemia.. <i>RSC Advances</i> , <b>2021</b> , 11, 17669-17682	3.7	1
32	Iron Oxide Nanoparticles: Multiwall Carbon Nanotube Composite Materials for Batch or Chromatographic Biomolecule Separation. <i>Nanoscale Research Letters</i> , <b>2021</b> , 16, 30	5	1
31	Insights on Alanine and Arginine Binding to Silica with Atomic Resolution. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 9384-9390	6.4	1
30	Visualization of USPIO-labeled melt-electrowritten scaffolds by non-invasive magnetic resonance imaging. <i>Biomaterials Science</i> , <b>2021</b> , 9, 4607-4612	7.4	3
29	Crystal Structure and Spectroscopic Analysis of the Compatible Solute N-Acetyl-L-2,4-Diaminobutyric Acid. <i>Crystals</i> , <b>2020</b> , 10, 1136	2.3	

28	Controlled Synthesis of Magnetic Iron Oxide Nanoparticles: Magnetite or Maghemite?. <i>Crystals</i> , <b>2020</b> , 10, 214	2.3	34
27	Immunomagnetic Separation of Microorganisms with Iron Oxide Nanoparticles. <i>Chemosensors</i> , <b>2020</b> , 8, 17	4	16
26	Anaplerotic Pathways in : The Role of the Sodium Gradient. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 561800	5.7	2
25	Seeking Innovative Affinity Approaches: A Performance Comparison between Magnetic Nanoparticle Agglomerates and Chromatography Resins for Antibody Recovery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39967-39978	9.5	6
24	Buffer Influence on the Amino Acid Silica Interaction. <i>ChemPhysChem</i> , <b>2020</b> , 21, 2347-2356	3.2	7
23	Magnetic Separation in Bioprocessing Beyond the Analytical Scale: From Biotechnology to the Food Industry. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 233	5.8	27
22	Magnetic Recovery of Cellulase from Cellulose Substrates with Bare Iron Oxide Nanoparticles. <i>ChemNanoMat</i> , <b>2019</b> , 5, 422-426	3.5	8
21	Rational Design of Iron Oxide Binding Peptide Tags. <i>Langmuir</i> , <b>2019</b> , 35, 8472-8481	4	4
20	Reactivity of Re <sub>2</sub> O <sub>7</sub> in aromatic solvents [Cleavage of a E0-4 lignin model substrate by Lewis-acidic rhenium oxide nanoparticles. <i>Journal of Catalysis</i> , <b>2019</b> , 373, 190-200	7.3	6
19	Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. <i>ACS Omega</i> , <b>2019</b> , 4, 3790-3799	3.9	34
18	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> , <b>2019</b> , 14, e1800055	5.6	32
17	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. <i>Engineering in Life Sciences</i> , <b>2018</b> , 18, 84-100	3.4	16
16	Bare Iron Oxide Nanoparticles for Magnetic Harvesting of Microalgae: From Interaction Behavior to Process Realization. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	36
15	Potential-Controlled Tensiometry: A Tool for Understanding Wetting and Surface Properties of Conductive Powders by Electroimbibition. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 14131-14136	7.8	4
14	Peptide binding to metal oxide nanoparticles. <i>Faraday Discussions</i> , <b>2017</b> , 204, 233-250	3.6	26
13	Bio-nano interactions: cellulase on iron oxide nanoparticle surfaces. <i>Adsorption</i> , <b>2017</b> , 23, 281-292	2.6	24
12	Oxidation of magnetite nanoparticles: impact on surface and crystal properties. <i>CrystEngComm</i> , <b>2017</b> , 19, 246-255	3.3	101
11	Formation of iron oxide nanoparticles for the photooxidation of water: Alteration of finite size effects from ferrihydrite to hematite. <i>Scientific Reports</i> , <b>2017</b> , 7, 12609	4.9	28

10	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. <i>Scientific Reports</i> , <b>2017</b> , 7, 14047	4.9	17
9	Probing properties of molecule-based interface systems: general discussion and Concluding Remarks. <i>Faraday Discussions</i> , <b>2017</b> , 204, 503-530	3.6	
8	Supramolecular effects in self-assembled monolayers: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 204, 123-158	3.6	2
7	Preparing macromolecular systems on surfaces: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 204, 395-418	3.6	2
6	Supramolecular systems at liquid-solid interfaces: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 204, 271-295	3.6	2
5	Improvement of adhesion strength of self-adhesive silicone rubber on thermoplastic substrates □ Comparison of an atmospheric pressure plasma jet (APPJ) and a Pyrosil□ flame. <i>International Journal of Adhesion and Adhesives</i> , <b>2016</b> , 66, 65-72	3.4	21
4	Oleate coating of iron oxide nanoparticles in aqueous systems: the role of temperature and surfactant concentration. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	19
3	Immobilization of Cellulase on Magnetic Nanocarriers. <i>ChemistryOpen</i> , <b>2016</b> , 5, 183-187	2.3	33
2	Nature of Interactions of Amino Acids with Bare Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23032-23041	3.8	104
1	Influencing factors in the CO-precipitation process of superparamagnetic iron oxide nano particles: A model based study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 377, 81-89	2.8	98