

Sonja Berensmeier

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77
papers

1,742
citations

22
h-index

40
g-index

78
ext. papers

2,112
ext. citations

4.4
avg, IF

5.39
L-index

#	Paper	IF	Citations
77	Magnetic particles for the separation and purification of nucleic acids. <i>Applied Microbiology and Biotechnology</i> , 2006 , 73, 495-504	5.7	344
76	Development and trends of biosurfactant analysis and purification using rhamnolipids as an example. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1579-90	4.4	125
75	Nature of Interactions of Amino Acids with Bare Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23032-23041	3.8	104
74	Oxidation of magnetite nanoparticles: impact on surface and crystal properties. <i>CrystEngComm</i> , 2017 , 19, 246-255	3.3	101
73	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> , 2015 , 377, 81-89	2.8	98
72	An optimized purification process for porcine gastric mucin with preservation of its native functional properties. <i>RSC Advances</i> , 2016 , 6, 44932-44943	3.7	64
71	High-gradient magnetic separation for technical scale protein recovery using low cost magnetic nanoparticles. <i>Separation and Purification Technology</i> , 2015 , 150, 29-36	8.3	63
70	Continuous rhamnolipid production with integrated product removal by foam fractionation and magnetic separation of immobilized <i>Pseudomonas aeruginosa</i> . <i>Biotechnology Progress</i> , 2011 , 27, 706-16	2.8	42
69	Cloning of the <i>pelA</i> gene from <i>Bacillus licheniformis</i> 14A and biochemical characterization of recombinant, thermostable, high-alkaline pectate lyase. <i>Applied Microbiology and Biotechnology</i> , 2004 , 64, 560-7	5.7	42
68	Separation of isomaltose from high sugar concentrated enzyme reaction mixture by dealuminated Zeolite. <i>Separation and Purification Technology</i> , 2004 , 38, 129-138	8.3	37
67	Bare Iron Oxide Nanoparticles for Magnetic Harvesting of Microalgae: From Interaction Behavior to Process Realization. <i>Nanomaterials</i> , 2018 , 8,	5.4	36
66	Magnetic One-Step Purification of His-Tagged Protein by Bare Iron Oxide Nanoparticles. <i>ACS Omega</i> , 2019 , 4, 3790-3799	3.9	34
65	Controlled Synthesis of Magnetic Iron Oxide Nanoparticles: Magnetite or Maghemite?. <i>Crystals</i> , 2020 , 10, 214	2.3	34
64	Immobilization of Cellulase on Magnetic Nanocarriers. <i>ChemistryOpen</i> , 2016 , 5, 183-187	2.3	33
63	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, e1800055	5.6	32
62	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	4.9	28
61	Direct capture of lactoferrin from whey using magnetic micro-ion exchangers in combination with high-gradient magnetic separation. <i>Reactive and Functional Polymers</i> , 2007 , 67, 1577-1588	4.6	28

60	Design of immobilised dextranucrase for fluidised bed application. <i>Journal of Biotechnology</i> , 2004 , 114, 255-67	3.7	28
59	Magnetic Separation in Bioprocessing Beyond the Analytical Scale: From Biotechnology to the Food Industry. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 233	5.8	27
58	Peptide binding to metal oxide nanoparticles. <i>Faraday Discussions</i> , 2017 , 204, 233-250	3.6	26
57	Bio-nano interactions: cellulase on iron oxide nanoparticle surfaces. <i>Adsorption</i> , 2017 , 23, 281-292	2.6	24
56	Improving the binding capacities of protein A chromatographic materials by means of ligand polymerization. <i>Journal of Chromatography A</i> , 2014 , 1347, 80-6	4.5	23
55	Bio-nano interactions: binding proteins, polysaccharides, lipids and nucleic acids onto magnetic nanoparticles. <i>Biomaterials Research</i> , 2021 , 25, 12	16.8	20
54	Impact of nanoparticle aggregation on protein recovery through a pentadentate chelate ligand on magnetic carriers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13607-16	9.5	19
53	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	2.3	19
52	Expression, one-step purification, and immobilization of HaloTag(TM) fusion proteins on chloroalkane-functionalized magnetic beads. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 162, 2098-1102	3.2	18
51	Binding patterns of homo-peptides on bare magnetic nanoparticles: insights into environmental dependence. <i>Scientific Reports</i> , 2017 , 7, 14047	4.9	17
50	Immunomagnetic Separation of Microorganisms with Iron Oxide Nanoparticles. <i>Chemosensors</i> , 2020 , 8, 17	4	16
49	Experimental characterization and simulation of amino acid and peptide interactions with inorganic materials. <i>Engineering in Life Sciences</i> , 2018 , 18, 84-100	3.4	16
48	Improved extracellular expression and purification of recombinant Staphylococcus aureus protein A. <i>Protein Expression and Purification</i> , 2014 , 93, 87-92	2	14
47	Isomaltose formation by free and immobilized dextranucrase. <i>Biocatalysis and Biotransformation</i> , 2006 , 24, 280-290	2.5	14
46	A High-Gradient Magnetic Separator for Highly Viscous Process Liquors in Industrial Biotechnology. <i>Chemical Engineering and Technology</i> , 2016 , 39, 469-476	2	13
45	Carbon nanotubes-A resin for electrochemically modulated liquid chromatography. <i>Journal of Separation Science</i> , 2017 , 40, 1176-1183	3.4	12
44	Semiconducting Polymer Interfaces for Electrochemically Assisted Mercury Remediation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49713-49722	9.5	12
43	Production, Purification, and Characterization of Thermoanaerobacterium thermosaccharolyticum Glucoamylase. <i>Starch/Staerke</i> , 2002 , 54, 328-337	2.3	11

42	Solid liquid liquid extraction of porcine gastric mucins from homogenized animal material. <i>RSC Advances</i> , 2017 , 7, 39708-39717	3.7	10
41	A fluorescence polarization assay for the experimental validation of an in silico model of the chemokine CXCL8 binding to receptor-derived peptides. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8036-43	3.6	9
40	Magnetophoretic Velocity Determined by Space- and Time-Resolved Extinction Profiles. <i>IEEE Magnetics Letters</i> , 2015 , 6, 1-4	1.6	9
39	Integrierte enzymatische Synthese und Adsorption von Isomaltose in einem Mehrphasenreaktor. <i>Chemie-Ingenieur-Technik</i> , 2005 , 77, 167-171	0.8	9
38	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	9.3	9
37	Development and validation of an RP-HPLC DAD method for the simultaneous quantification of minor and major whey proteins. <i>Food Chemistry</i> , 2021 , 342, 128176	8.5	9
36	Magnetic Recovery of Cellulase from Cellulose Substrates with Bare Iron Oxide Nanoparticles. <i>ChemNanoMat</i> , 2019 , 5, 422-426	3.5	8
35	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	2.6	8
34	Protein A affinity precipitation of human immunoglobulin G. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 965, 72-8	3.2	7
33	Buffer Influence on the Amino Acid Silica Interaction. <i>ChemPhysChem</i> , 2020 , 21, 2347-2356	3.2	7
32	Non-chromatographic preparative purification of enhanced green fluorescent protein. <i>Journal of Biotechnology</i> , 2015 , 194, 84-90	3.7	6
31	Integrated Enzymatic Synthesis and Adsorption of Isomaltose in a Multiphase Fluidized Bed Reactor. <i>Engineering in Life Sciences</i> , 2006 , 6, 481-487	3.4	6
30	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	9.5	6
29	Selective ene-reductase immobilization to magnetic nanoparticles through a novel affinity tag. <i>Biotechnology Journal</i> , 2021 , 16, e2000366	5.6	6
28	Membrane-assisted extraction of monoterpenes: from solvent screening towards biotechnological process application. <i>Royal Society Open Science</i> , 2018 , 5, 172004	3.3	5
27	Influence of different magnetites on properties of magnetic <i>Pseudomonas aeruginosa</i> immobilizates used for biosurfactant production. <i>Biotechnology Progress</i> , 2009 , 25, 1620-9	2.8	5
26	DNA Binding to the Silica: Cooperative Adsorption in Action. <i>Langmuir</i> , 2021 , 37, 5902-5908	4	5
25	Rational Design of Iron Oxide Binding Peptide Tags. <i>Langmuir</i> , 2019 , 35, 8472-8481	4	4

24	One-Step Purification of Microbially Produced Hydrophobic Terpenes via Process Chromatography. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 185	5.8	4
23	Bare Iron Oxide Nanoparticles as Drug Delivery Carrier for the Short Cationic Peptide Lasioglossin. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	4
22	Immobilization of PETase enzymes on magnetic iron oxide nanoparticles for the decomposition of microplastic PET. <i>Nanoscale Advances</i> , 2021 , 3, 4395-4399	5.1	4
21	Potential-Controlled Tensiometry: A Tool for Understanding Wetting and Surface Properties of Conductive Powders by Electroimbibition. <i>Analytical Chemistry</i> , 2018 , 90, 14131-14136	7.8	4
20	Selective release of overexpressed recombinant proteins from E. coli cells facilitates one-step chromatographic purification of peptide-tagged green fluorescent protein variants. <i>Protein Expression and Purification</i> , 2018 , 152, 155-160	2	3
19	In vivo labeling and specific magnetic bead separation of RNA for biofilm characterization and stress-induced gene expression analysis in bacteria. <i>Journal of Microbiological Methods</i> , 2009 , 79, 344-52 ^{2.8}	2.8	3
18	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	5.6	3
17	Visualization of USPIO-labeled melt-electrowritten scaffolds by non-invasive magnetic resonance imaging. <i>Biomaterials Science</i> , 2021 , 9, 4607-4612	7.4	3
16	Design of 3D Carbon Nanotube Monoliths for Potential-Controlled Adsorption. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9390	2.6	2
15	Anaplerotic Pathways in : The Role of the Sodium Gradient. <i>Frontiers in Microbiology</i> , 2020 , 11, 561800	5.7	2
14	Detection of targeted bacteria species on filtration membranes. <i>Analyst, The</i> , 2021 , 146, 3549-3556	5	2
13	Integrierte Produktion und Separation von Biotensiden im Mehrphasenreaktor. <i>Chemie-Ingenieur-Technik</i> , 2010 , 82, 111-115	0.8	1
12	Current practices with commercial scale bovine lactoferrin production and alternative approaches. <i>International Dairy Journal</i> , 2021 , 126, 105263	3.5	1
11	Purification of a peptide tagged protein via an affinity chromatographic process with underivatized silica. <i>Engineering in Life Sciences</i> , 2021 , 21, 549-557	3.4	1
10	Iron Oxide Nanoparticles: Multiwall Carbon Nanotube Composite Materials for Batch or Chromatographic Biomolecule Separation. <i>Nanoscale Research Letters</i> , 2021 , 16, 30	5	1
9	Insights on Alanine and Arginine Binding to Silica with Atomic Resolution. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9384-9390	6.4	1
8	The electrosorptive response of a carbon nanotube flow-through electrode in aqueous systems. <i>Chemical Engineering Journal</i> , 2022 , 428, 131009	14.7	1
7	Direct capture and selective elution of a secreted polyglutamate-tagged nanobody using bare magnetic nanoparticles.. <i>Biotechnology Journal</i> , 2022 , e2100577	5.6	0

- 6 Crystal Structure and Spectroscopic Analysis of the Compatible Solute N-Acetyl-L-2,4-Diaminobutyric Acid. *Crystals*, **2020**, 10, 1136 2.3
- 5 Potential-Controlled Chromatography on Carbon Nanotubes for Biomolecule Separation. *Chemie-Ingenieur-Technik*, **2016**, 88, 1256-1256 0.8
- 4 Bioseparation, Magnetic Particle Adsorbents 1
- 3 Downstream process development for a small molecule from saline microbial fermentation. *Chemie-Ingenieur-Technik*, **2020**, 92, 1239-1239 0.8
- 2 Magnetic Separation: Prospects for Downstream Processing. *Chemie-Ingenieur-Technik*, **2018**, 90, 1213-1213 0.8
- 1 Natural magnetite ore as a harvesting agent for saline microalgae *Microchloropsis salina*. *Bioresource Technology Reports*, **2021**, 15, 100798 4.1