

# Sebastian Beck

## List of Publications by Year in descending order

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44  
papers

1,558  
citations

567281

15  
h-index

302126

39  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Analysis of Pharmaceutical Drugs Using a Combination of Acoustic Levitation and High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 6019-6024.	6.5	9
2	Fragmentation behavior of EDTA complexes under different activation conditions. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4775.	1.6	4
3	VUV Photodissociation Induced by a Deuterium Lamp in an Ion Trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2114-2122.	2.8	7
4	Peptide quantification in elemental mass spectrometry using a photocleavable metal-coded affinity tag (MeCAT) reagent. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 978-980.	1.5	0
5	Comparison of the fragmentation behavior of DNA and LNA single strands and duplexes. <i>Journal of Mass Spectrometry</i> , 2019, 54, 402-411.	1.6	4
6	Complementarity of molecular and elemental mass spectrometric imaging of Gadovist <sup>®</sup> in mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 629-637.	3.7	6
7	Synthesis and characterization of a new MeCAT reagent containing a photocleavable linker for labeling of proteins and peptides in mass spectrometric analyses. <i>Talanta</i> , 2019, 192, 197-203.	5.5	1
8	Charge-induced geometrical reorganization of DNA oligonucleotides studied by tandem mass spectrometry and ion mobility. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 225-230.	1.0	7
9	Negative nucleotide ions as sensitive probes for energy specificity in collision-induced fragmentation in mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 597-603.	1.5	6
10	A new strategy for metal labeling of glycan structures in antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 21-25.	3.7	6
11	Fragmentation behavior of DOTA complexes under different activation conditions. <i>Journal of Mass Spectrometry</i> , 2017, 52, 442-451.	1.6	6
12	Inducer exclusion in Firmicutes: insights into the regulation of a carbohydrate ATP binding cassette transporter from <i>Lactobacillus casei</i> BL23 by the signal transducing protein PaSer46 <sup>HP</sup> . <i>Molecular Microbiology</i> , 2017, 105, 25-45.	2.5	20
13	Identification and Characterization of Differentially-Regulated Type IVb Pilin Genes Necessary for Predation in Obligate Bacterial Predators. <i>Scientific Reports</i> , 2017, 7, 1013.	3.3	26
14	Comprehensive Molecular Characterization of a Cisplatin-Specific Monoclonal Antibody. <i>Molecular Pharmaceutics</i> , 2017, 14, 4454-4461.	4.6	4
15	Mass spectrometric imaging of flavonoid glycosides and biflavonoids in <i>Ginkgo biloba</i> L.. <i>Phytochemistry</i> , 2016, 130, 201-206.	2.9	63
16	Software assisted data analysis for relative quantification of differentially metal labeled proteins based on HPLC/ESI-MS and MS/MS experiments. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1120-1123.	1.6	4
17	Light-Induced Rearrangement of the $\beta$ 5 Strand in the BLUF Photoreceptor SyPixD (Slr1694). <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4749-4753.	4.6	17
18	Quantification of intact covalently metal labeled proteins using ESI-MS/MS. <i>Journal of Mass Spectrometry</i> , 2014, 49, 13-18.	1.6	15

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19	Protein Quantification by Elemental Mass Spectrometry: An Experiment for Graduate Students. <i>Journal of Chemical Education</i> , 2014, 91, 2167-2170.	2.3	11
20	DOTA based metal labels for protein quantification: a review. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 221-233.	3.0	62
21	DNA Quantification via ICP-MS Using Lanthanide-Labeled Probes and Ligation-Mediated Amplification. <i>Analytical Chemistry</i> , 2014, 86, 585-591.	6.5	46
22	Solid Phase Synthesis of Short Peptide-Based Multimetal Tags for Biomolecule Labeling. <i>Bioconjugate Chemistry</i> , 2014, 25, 1069-1077.	3.6	9
23	Structure of Polydopamine: A Never-Ending Story?. <i>Langmuir</i> , 2013, 29, 10539-10548.	3.5	834
24	MeCAT – comparing relative quantification of alpha lactalbumin using both molecular and elemental mass spectrometry. <i>Analyst</i> , 2013, 138, 2449.	3.5	11
25	A Set of Engineered <i>Escherichia coli</i> Expression Strains for Selective Isotope and Reactivity Labeling of Amino Acid Side Chains and Flavin Cofactors. <i>PLoS ONE</i> , 2013, 8, e79006.	2.5	15
26	Comparison of the fragmentation behavior of differentially metal-coded affinity tag (MeCAT)-labeled peptides. <i>Journal of Mass Spectrometry</i> , 2012, 47, 885-889.	1.6	10
27	MeCAT – new iodoacetamide reagents for metal labeling of proteins and peptides. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1203-1209.	3.7	35
28	Bacterial Predators Possess Unique Membrane Lipid Structures. <i>Lipids</i> , 2011, 46, 1129-1140.	1.7	12
29	<i>Campylobacter jejuni</i> Group III Phage CP81 Contains Many T4-Like Genes without Belonging to the T4-Type Phage Group: Implications for the Evolution of T4 Phages. <i>Journal of Virology</i> , 2011, 85, 8597-8605.	3.4	26
30	Chemical Structure of <i>Bacteriovorax stolpii</i> Lipid A. <i>Lipids</i> , 2010, 45, 189-198.	1.7	6
31	The <i>Sinorhizobium meliloti</i> LpxXL and AcpXL Proteins Play Important Roles in Bacteroid Development within Alfalfa. <i>Journal of Bacteriology</i> , 2009, 191, 4681-4686.	2.2	43
32	Fragmentation behavior of metal-coded affinity tag (MeCAT)-labeled peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2045-2052.	1.5	23
33	The <i>Sinorhizobium meliloti</i> MsbA2 protein is essential for the legume symbiosis. <i>Microbiology (United Kingdom)</i> , 2009, 153, 1843-1852. <a href="#">DOI: 10.1099/mic/0/011843-1</a>	1.8	20
34	Screening for immunomodulatory proteins of the intestinal parasitic nematode <i>Heligmosomoides polygyrus</i> . <i>Parasite Immunology</i> , 2006, 28, 463-472.	1.5	32
35	<i>Bdellovibrio</i> and Like Organisms: Potential Sources for New Biochemicals and Therapeutic Agents?. <i>Journal of Biotechnology</i> , 2006, 124, 131-152.		4
36	Phosphorus-31 MAS NMR investigations of pyridine stabilized dithiomonometaphosphoryl halides. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 28, 57-63.	2.3	3

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37	Transcriptional Activity of the Host-Interaction Locus and a Putative Pilin Gene of <i>Bdellovibrio bacteriovorus</i> in the Predatory Life Cycle. <i>Current Microbiology</i> , 2005, 51, 310-316.	2.2	19
38	Mass spectrometric decompositions of cationized $\beta$ -cyclodextrin. <i>Carbohydrate Research</i> , 2005, 340, 1567-1572.	2.3	15
39	Characterization of outer membrane protein fractions of <i>Bdellovibrionales</i> . <i>FEMS Microbiology Letters</i> , 2005, 243, 211-217.	1.8	10
40	Mass spectrometric decomposition of N-arylbenzotriolium ions. <i>International Journal of Mass Spectrometry</i> , 2005, 242, 1-4.	1.5	5
41	Electrospray ionization mass spectrometric study of purine base-cisplatin complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 970-974.	1.5	14
42	<i>Bdellovibrio bacteriovorus</i> Strains Produce a Novel Major Outer Membrane Protein during Predacious Growth in the Periplasm of Prey Bacteria. <i>Journal of Bacteriology</i> , 2004, 186, 2766-2773.	2.2	20
43	Sequence Analysis of the Genome of the Temperate <i>Yersinia enterocolitica</i> Phage PY54. <i>Journal of Molecular Biology</i> , 2003, 331, 605-622.	4.2	66
44	Triorganophosphine- $\alpha$ -dithiomonometaphosphoryl halides. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, o247-o250.	0.4	2