

GÃ¼nther K Bonn

List of Publications by Year in descending order

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71
papers

2,159
citations

218677

26
h-index

233421

45
g-index

71
all docs

71
docs citations

71
times ranked

2709
citing authors

#	ARTICLE	IF	CITATIONS
1	Medicinal applications of fullerenes. <i>International Journal of Nanomedicine</i> , 2007, 2, 639-49.	6.7	402
2	Dipyridyl Amide-Functionalized Polymers Prepared by Ring-Opening-Metathesis Polymerization (ROMP) for the Selective Extraction of Mercury and Palladium. <i>Journal of the American Chemical Society</i> , 1998, 120, 2790-2797.	13.7	122
3	Development and Application of C60-Fullerene Bound Silica for Solid-Phase Extraction of Biomolecules. <i>Analytical Chemistry</i> , 2007, 79, 8144-8153.	6.5	96
4	Analysis of protein phosphorylation by monolithic extraction columns based on poly(divinylbenzene) containing embedded titanium dioxide and zirconium dioxide nanoâ€powders. <i>Proteomics</i> , 2008, 8, 4593-4602.	2.2	93
5	Influence of the polymerisation time on the porous and chromatographic properties of monolithic poly(1,2-bis(p-vinylphenyl)ethane) capillary columns. <i>Journal of Chromatography A</i> , 2009, 1216, 7747-7754.	3.7	81
6	Structural elucidation of catechin and epicatechin in sorrel leaf extracts using liquid-chromatography coupled to diode array-, fluorescence-, and mass spectrometric detection. <i>Journal of Separation Science</i> , 2004, 27, 524-528.	2.5	66
7	Nanostructured Diamond-Like Carbon on Digital Versatile Disc as a Matrix-Free Target for Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 7467-7472.	6.5	66
8	Material-enhanced laser desorption/ionization (MELDI)â€A new protein profiling tool utilizing specific carrier materials for time of flight mass spectrometric analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 1203-1208.	2.8	63
9	High-performance liquid chromatographic separation of detritylated oligonucleotides on highly cross-linked poly-(styrene-divinylbenzene) particles. <i>Journal of Chromatography A</i> , 1992, 599, 113-118.	3.7	58
10	Mutation detection by capillary denaturing high-performance liquid chromatography using monolithic columns. <i>Journal of Proteomics</i> , 2001, 47, 5-19.	2.4	52
11	A New Analytical Material-Enhanced Laser Desorption Ionization (MELDI) Based Approach for the Determination of Low-Mass Serum Constituents Using Fullerene Derivatives for Selective Enrichment. <i>Journal of Proteome Research</i> , 2007, 6, 44-53.	3.7	51
12	Derivatized Cellulose Combined with MALDI-TOF MS:Â A New Tool for Serum Protein Profiling. <i>Journal of Proteome Research</i> , 2005, 4, 2320-2326.	3.7	45
13	Rapid and direct volatile compound profiling of black and green teas (<i>Camellia sinensis</i>) from different countries with PTR-ToF-MS. <i>Talanta</i> , 2016, 152, 45-53.	5.5	44
14	Selective Extraction of Rare-Earth Elements from Rocks Using a High-Capacity cis-1,4-Butanedioic Acid-Functionalized Resin. <i>Analytical Chemistry</i> , 1998, 70, 2130-2136.	6.5	41
15	Comparison between monolithic conventional size, microbore and capillary poly(p-methylstyrene-co-1,2-bis(p-vinylphenyl)ethane) high-performance liquid chromatography columns. <i>Journal of Chromatography A</i> , 2007, 1146, 216-224.	3.7	41
16	Surface-assisted laser desorption/ionization-mass spectrometry using TiO2-coated steel targets for the analysis of small molecules. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1963-1974.	3.7	41
17	N,N'-Di(alkyloxy)imidazolium Salts: New Patent-free Ionic Liquids and NHC Precatalysts. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2007, 62, 295-308.	0.7	39
18	Comparison survey of EVOO polyphenols and exploration of healthy aging-promoting properties of oleocanthal and oleacein. <i>Food and Chemical Toxicology</i> , 2019, 125, 403-412.	3.6	39

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19	Laser desorption/ionization mass spectrometric analysis of small molecules using fullerene-derivatized silica as energy-absorbing material. <i>Journal of Mass Spectrometry</i> , 2010, 45, 545-552.	1.6	36
20	Ultra-fast mass fingerprinting by high-affinity capture of peptides and proteins on derivatized poly(glycidyl methacrylate/divinylbenzene) for the analysis of serum and cell lysates. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2954-2960.	1.5	33
21	Monolithic poly(1,2-bis(vinylphenyl)ethane) capillary columns for simultaneous separation of low- and high-molecular-weight compounds. <i>Journal of Separation Science</i> , 2009, 32, 2510-2520.	2.5	33
22	Mass Spectrometric Identification of Serum Peptides Employing Derivatized Poly(glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	3.7	31
23	Versatile nanocomposites in phosphoproteomics: A review. <i>Analytica Chimica Acta</i> , 2012, 747, 7-18.	5.4	31
24	CE coupled to MALDI with novel covalently coated capillaries. <i>Electrophoresis</i> , 2010, 31, 618-629.	2.4	30
25	Challenging handheld NIR spectrometers with moisture analysis in plant matrices: Performance of PLSR vs. GPR vs. ANN modelling. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119342.	3.9	29
26	Capillary electrochromatography of boswellic acids in <i>Boswellia serrata</i> Roxb.. <i>Journal of Separation Science</i> , 2003, 26, 1383-1388.	2.5	28
27	Synthesis and Crystal Structures of 1-Alkoxy-3-alkylimidazolium Salts Including Ionic Liquids, 1-Alkylimidazole 3-oxides and 1-Alkylimidazole Perhydrates. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2008, 63, 447-464.	0.7	27
28	Comprehensive evaluation of imidazole-based polymers for the enrichment of selected non-steroidal anti-inflammatory drugs. <i>Talanta</i> , 2016, 153, 177-185.	5.5	24
29	Rapid isolation of acidic cannabinoids from <i>Cannabis sativa</i> L. using pH-zone-refining centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2019, 1599, 196-202.	3.7	24
30	Monolithic poly[(trimethylsilyl-4-methylstyrene)-co- bis(4-vinylbenzyl)dimethylsilane] stationary phases for the fast separation of proteins and oligonucleotides. <i>Journal of Chromatography A</i> , 2007, 1147, 53-58.	3.7	23
31	A simple method for the enrichment of bisphenols using boron nitride. <i>Food Chemistry</i> , 2016, 194, 149-155.	8.2	22
32	The (E)-2-Ferrocenylethenylcobaltocenium Cation. A Missing Link in Heteronuclear Bimetalloocene-Based Donor-Acceptor Conjugate Chemistry Exhibiting Irregular Solvatochromism. <i>Organometallics</i> , 2005, 24, 6085-6093.	2.3	21
33	Hydrogen Bonding in the Crystal Structures of New Imidazolium Triflimide Protic Ionic Liquids. <i>Journal of Chemical Crystallography</i> , 2009, 39, 662-668.	1.1	20
34	Poly(N-vinylimidazole/ethylene glycol dimethacrylate) for the purification and isolation of phenolic acids. <i>Analytica Chimica Acta</i> , 2015, 885, 199-206.	5.4	19
35	Highly selective recovery of phosphopeptides using trypsin-assisted digestion of precipitated lanthanide-phosphoprotein complexes. <i>Analyst</i> , 2013, 138, 2897.	3.5	17
36	Determination of phototoxic furanocoumarins in natural cosmetics using SPE with LC-MS. <i>Analytica Chimica Acta</i> , 2020, 1101, 211-221.	5.4	17

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37	C60-fullerene bound silica for the preconcentration and the fractionation of multiphosphorylated peptides. <i>Analytica Chimica Acta</i> , 2013, 761, 92-101.	5.4	16
38	Quaternary 4-Amino-1,2,4-triazolium Salts: Crystal Structures of Ionic Liquids and N-Heterocyclic Carbene (NHC) Complexes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 603-616.	0.7	15
39	Peptide mapping using capillary electrophoresis offline coupled to matrix-assisted laser desorption ionization time of flight mass spectrometry. <i>Electrophoresis</i> , 2011, 32, 2830-2839.	2.4	15
40	Rapid discrimination of <i>Curcuma longa</i> and <i>Curcuma xanthorrhiza</i> using Direct Analysis in Real Time Mass Spectrometry and Near Infrared Spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120347.	3.9	14
41	Derivatized graphitic nanofibres (GNF) as a new support material for mass spectrometric analysis of peptides and proteins. <i>Amino Acids</i> , 2009, 37, 341-348.	2.7	13
42	Largely Reduced Grid Densities in a Vibrational Self-Consistent Field Treatment Do Not Significantly Impact the Resulting Wavenumbers. <i>Molecules</i> , 2014, 19, 21253-21275.	3.8	12
43	Development of erbium phosphate doped poly(glycidyl methacrylate/ethylene dimethacrylate) spin columns for selective enrichment of phosphopeptides. <i>Journal of Separation Science</i> , 2015, 38, 1334-1343.	2.5	11
44	Near-infrared and Mid-infrared Spectroscopic Techniques for a Fast and Nondestructive Quality Control of <i>Thymi herba</i> . <i>Planta Medica</i> , 2018, 84, 420-427.	1.3	11
45	Quantification of selected aroma compounds in e-cigarette products and toxicity evaluation in HUVEC/Tert2 cells. <i>Biomedical Chromatography</i> , 2020, 34, e4761.	1.7	11
46	Enrichment and desalting of tryptic protein digests and the protein depletion using boron nitride. <i>Analytica Chimica Acta</i> , 2014, 823, 40-50.	5.4	10
47	Novel multifunctional chitosan-GMA-IDA-Cu(II) nanospheres for high dynamic range characterization of the human plasma proteome. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 747-756.	3.7	8
48	Sulfonated halloysite nanotubes as a novel cation exchange material for solid phase extraction of toxic pyrrolizidine alkaloids. <i>Analytical Methods</i> , 2022, 14, 2689-2697.	2.7	8
49	New stationary phases for enrichment and separation in the 'omics' era. <i>Bioanalysis</i> , 2009, 1, 151-169.	1.5	7
50	Novel asymmetric 1,3-di(alkyloxy)imidazolium based ionic liquids for liquid-phase microextraction of selected analgesics and estrogens from aqueous samples. <i>Journal of Molecular Liquids</i> , 2019, 289, 111157.	4.9	7
51	Novel Room Temperature Ionic Liquid for Liquid-Phase Microextraction of Cannabidiol from Natural Cosmetics. <i>Separations</i> , 2020, 7, 45.	2.4	7
52	Rapid differentiation and quality control of tobacco products using Direct Analysis in Real Time Mass Spectrometry and Liquid Chromatography Mass Spectrometry. <i>Talanta</i> , 2022, 238, 123057.	5.5	7
53	Fast, noninvasive and simultaneous near-infrared spectroscopic characterisation of physicochemical stationary phases' properties: From silica particles towards monoliths. <i>Journal of Separation Science</i> , 2008, 31, 2541-2550.	2.5	6
54	Highly selective enrichment of phosphopeptides using aluminum silicate. <i>Analytical Methods</i> , 2014, 6, 9160-9167.	2.7	6

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55	Direct Determination of Ni ²⁺ -Capacity of IMAC Materials Using Near-Infrared Spectroscopy. <i>Molecules</i> , 2018, 23, 3072.	3.8	6
56	Quantification of Silymarin in <i>Silybi mariani fructus</i> : Challenging the Analytical Performance of Benchtop vs. Handheld NIR Spectrometers on Whole Seeds. <i>Planta Medica</i> , 2022, 88, 20-32.	1.3	6
57	Stability evaluation of morphine, hydromorphone, metamizole and esketamine containing analgesic mixtures applied for patient-controlled analgesia in hospice and palliative care. <i>Biomedical Chromatography</i> , 2022, 36, e5340.	1.7	6
58	A validated method for the rapid quantification of melatonin in over-the-counter hypnotics by the atmospheric pressure solid analysis probe (ASAP). <i>Analytical Methods</i> , 2022, 14, 1603-1610.	2.7	6
59	Fast and semiquantitative screening for sildenafil in herbal over-the-counter formulations with atmospheric pressure solid analysis probe (ASAP) to prevent medicinal adulteration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 214, 114720.	2.8	6
60	The impact of highly correlated potential energy surfaces on the anharmonically corrected IR spectrum of acetonitrile. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 545-555.	3.9	5
61	At-Line Monitoring of the Extraction Process of <i>Rosmarini Folium</i> via Wet Chemical Assays, UHPLC Analysis, and Newly Developed Near-Infrared Spectroscopic Analysis Methods. <i>Molecules</i> , 2019, 24, 2480.	3.8	5
62	Investigation of the evaporation behavior of aroma compounds in e-cigarettes. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3029-3035.	3.7	5
63	An automated preloaded pipet tip SPE method for the accurate quantification of carcinogenic polycyclic aromatic hydrocarbons from tea. <i>Analytical Methods</i> , 2020, 12, 1827-1833.	2.7	5
64	Lanthanide-IMAC enrichment of carbohydrates and polyols. <i>Biomedical Chromatography</i> , 2014, 28, 412-418.	1.7	4
65	Quantification and cytotoxicity of degradation products (chloropropanols) in sucralose containing e-liquids with propylene glycol and glycerol as base. <i>Toxicology and Applied Pharmacology</i> , 2021, 430, 115727.	2.8	4
66	Mass Spectrometric Profiling of Low-Molecular-Weight Proteins. <i>Methods in Molecular Biology</i> , 2013, 1023, 83-95.	0.9	3
67	Novel ionic liquid based dispersive liquid-liquid microextraction for the extraction of bergapten and bergamottin in hydroalcoholic cosmetic formulations. <i>Analytical Methods</i> , 2020, 12, 4377-4386.	2.7	3
68	Highly selective enrichment of phosphopeptides using poly(dibenzo-18-crown-6) as a solid-phase extraction material. <i>Biomedical Chromatography</i> , 2019, 33, e4567.	1.7	2
69	Electrochemical Simulation of the Oxidative Capsaicin Metabolism. <i>Chemical Research in Toxicology</i> , 2021, 34, 2522-2533.	3.3	2
70	Anion Exchange Solid Phase Extraction of Humic Substances for the Determination of Complexed Heavy Metals in Natural Waters with High Dissolved Organic Carbon Contents. <i>Monatshefte für Chemie</i> , 1998, 129, 597-605.	1.8	1
71	The Crosslinker Matters: Vinylimidazole-Based Anion Exchange Polymer for Dispersive Solid-Phase Extraction of Phenolic Acids. <i>Separations</i> , 2022, 9, 72.	2.4	1