

Norbert Jakubowski

List of Publications by Year in descending order

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101
papers

4,214
citations

87888

38
h-index

128289

60
g-index

103
all docs

103
docs citations

103
times ranked

3679
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of organic chlorine in water via AlCl derivatization and detection by high-resolution continuum source graphite furnace molecular absorption spectrometry. <i>Analytical Methods</i> , 2021, 13, 3724-3730.	2.7	1
2	Superficial white matter imaging: Contrast mechanisms and whole-brain in vivo mapping. <i>Science Advances</i> , 2020, 6, .	10.3	65
3	Single-cell analysis by use of ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1784-1813.	3.0	46
4	Multiplex LA-ICP-MS bio-imaging of brain tissue of a parkinsonian mouse model stained with metal-coded affinity-tagged antibodies and coated with indium-spiked commercial inks as internal standards. <i>Journal of Neuroscience Methods</i> , 2020, 334, 108591.	2.5	24
5	Shake, shut, and go – A fast screening of sulfur in heavy crude oils by high-resolution continuum source graphite furnace molecular absorption spectrometry via GeS molecule detection. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019, 160, 105671.	2.9	6
6	Arraying of Single Cells for Quantitative High Throughput Laser Ablation ICP-TOF-MS. <i>Analytical Chemistry</i> , 2019, 91, 11520-11528.	6.5	34
7	Imaging of Ag NP transport through collagen-rich microstructures in fibroblast multicellular spheroids by high-resolution laser ablation inductively coupled plasma time-of-flight mass spectrometry. <i>Analyst, The</i> , 2019, 144, 4935-4942.	3.5	5
8	Quantitative Imaging of Silver Nanoparticles and Essential Elements in Thin Sections of Fibroblast Multicellular Spheroids by High Resolution Laser Ablation Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 10197-10203.	6.5	27
9	Mass Cytometry Enabling Absolute and Fast Quantification of Silver Nanoparticle Uptake at the Single Cell Level. <i>Analytical Chemistry</i> , 2019, 91, 11514-11519.	6.5	16
10	High-resolution laser ablation inductively coupled plasma mass spectrometry used to study transport of metallic nanoparticles through collagen-rich microstructures in fibroblast multicellular spheroids. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3497-3506.	3.7	17
11	Complementarity of molecular and elemental mass spectrometric imaging of Gadovist [®] in mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 629-637.	3.7	6
12	Bioimaging of metallothioneins in ocular tissue sections by laser ablation-ICP-MS using bioconjugated gold nanoclusters as specific tags. <i>Mikrochimica Acta</i> , 2018, 185, 64.	5.0	27
13	Nanomaterials: certain aspects of application, risk assessment and risk communication. <i>Archives of Toxicology</i> , 2018, 92, 121-141.	4.2	109
14	Online immunocapture ICP-MS for the determination of the metalloprotein ceruloplasmin in human serum. <i>BMC Research Notes</i> , 2018, 11, 213.	1.4	16
15	Zirconium permanent modifiers for graphite furnaces used in absorption spectrometry: understanding their structure and mechanism of action. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 2034-2042.	3.0	12
16	Multifunctional Rare-Earth Element Nanocrystals for Cell Labeling and Multimodal Imaging. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3578-3587.	5.2	14
17	Quantification of silver nanoparticles taken up by single cells using inductively coupled plasma mass spectrometry in the single cell measurement mode. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1256-1263.	3.0	34
18	Quantification of metals in single cells by LA-ICP-MS: comparison of single spot analysis and imaging. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1579-1587.	3.0	31

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19	Quantitative characterization of single cells by use of immunocytochemistry combined with multiplex LA-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3667-3676.	3.7	37
20	Determination of boron isotope ratios by high-resolution continuum source molecular absorption spectrometry using graphite furnace vaporizers. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 136, 116-122.	2.9	18
21	Quantification of silver nanoparticle uptake and distribution within individual human macrophages by FIB/SEM slice and view. <i>Journal of Nanobiotechnology</i> , 2017, 15, 21.	9.1	31
22	Quantification and visualization of cellular uptake of TiO ₂ and Ag nanoparticles: comparison of different ICP-MS techniques. <i>Journal of Nanobiotechnology</i> , 2016, 14, 50.	9.1	82
23	Determination of tributyltin in whole water matrices under the European Water Framework Directive. <i>Journal of Chromatography A</i> , 2016, 1459, 112-119.	3.7	17
24	Biomolecular environment, quantification, and intracellular interaction of multifunctional magnetic SERS nanoprobos. <i>Analyst, The</i> , 2016, 141, 5096-5106.	3.5	29
25	LA-ICP-MS Allows Quantitative Microscopy of Europium-Doped Iron Oxide Nanoparticles and is a Possible Alternative to Ambiguous Prussian Blue Iron Staining. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1001-1010.	1.1	36
26	Internal standardization of LA-ICP-MS immuno imaging via printing of universal metal spiked inks onto tissue sections. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 801-808.	3.0	26
27	Printing metal-spiked inks for LA-ICP-MS bioimaging internal standardization: comparison of the different nephrotoxic behavior of cisplatin, carboplatin, and oxaliplatin. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2309-2318.	3.7	35
28	Gadolinium-uptake by aquatic and terrestrial organisms-distribution determined by laser ablation inductively coupled plasma mass spectrometry. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 200-207.	3.5	39
29	Tributyltin "critical pollutant in whole water samples" development of traceable measurement methods for monitoring under the European Water Framework Directive (WFD) 2000/60/EC. <i>Environmental Science and Pollution Research</i> , 2015, 22, 9589-9594.	5.3	14
30	Analysis of Gadolinium-based contrast agents in tap water with a new hydrophilic interaction chromatography (ZIC-cHILIC) hyphenated with inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2415-2422.	3.7	44
31	Sample loss in asymmetric flow field-flow fractionation coupled to inductively coupled plasma-mass spectrometry of silver nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2214-2222.	3.0	18
32	Investigation of a Combined Microdroplet Generator and Pneumatic Nebulization System for Quantitative Determination of Metal-Containing Nanoparticles Using ICPMS. <i>Analytical Chemistry</i> , 2015, 87, 8687-8694.	6.5	36
33	Current trends in single cell analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6957-6961.	3.7	21
34	Development of a calibration and standardization procedure for LA-ICP-MS using a conventional ink-jet printer for quantification of proteins in electro- and Western-blot assays. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1282.	3.0	32
35	In situ Characterization of SiO ₂ Nanoparticle Biointeractions Using BrightSilica. <i>Advanced Functional Materials</i> , 2014, 24, 3765-3775.	14.9	48
36	Relating surface-enhanced Raman scattering signals of cells to gold nanoparticle aggregation as determined by LA-ICP-MS micromapping. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7003-7014.	3.7	61

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37	Trends in single-cell analysis by use of ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6963-6977.	3.7	129
38	A multi-parametric microarray for protein profiling: simultaneous analysis of 8 different cytochromes via differentially element tagged antibodies and laser ablation ICP-MS. <i>Analyst</i> , The, 2013, 138, 6309.	3.5	36
39	Application of a micro-droplet generator for an ICP-sector field mass spectrometer – optimization and analytical characterization. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 646.	3.0	70
40	Sample introduction of single selenized yeast cells (<i>Saccharomyces cerevisiae</i>) by micro droplet generation into an ICP-sector field mass spectrometer for label-free detection of trace elements. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 637.	3.0	77
41	Speciation of gadolinium in surface water samples and plants by hydrophilic interaction chromatography hyphenated with inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1865-1873.	3.7	44
42	Model Peptides Uncover the Role of the Î²-Secretase Transmembrane Sequence in Metal Ion Mediated Oligomerization. <i>Journal of the American Chemical Society</i> , 2013, 135, 19354-19361.	13.7	15
43	Comparison of different chelates for lanthanide labeling of antibodies and application in a Western blot immunoassay combined with detection by laser ablation (LA-)ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1311.	3.0	55
44	LA-ICP-MS and nHPLC-ESI-LTQ-FT-MS/MS for the analysis of cisplatin–protein complexes separated by two dimensional gel electrophoresis in biological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1474.	3.0	36
45	Quantitative Imaging of Gold and Silver Nanoparticles in Single Eukaryotic Cells by Laser Ablation ICP-MS. <i>Analytical Chemistry</i> , 2012, 84, 9684-9688.	6.5	191
46	History of inductively coupled plasma mass spectrometry-based immunoassays. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 76, 27-39.	2.9	49
47	Iodine as an elemental marker for imaging of single cells and tissue sections by laser ablation inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2160.	3.0	69
48	Iodination of proteins, proteomes and antibodies with potassium triiodide for LA-ICP-MS based proteomic analyses. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1610.	3.0	35
49	Combined application of a laser ablation-ICP-MS assay for screening and ESI-FTICR-MS for identification of a Cd-binding protein in <i>Spinacia oleracea</i> L. after exposure to Cd. <i>Metallomics</i> , 2011, 3, 1001.	2.4	18
50	Cytochromes – fascinating molecular machines. <i>Metallomics</i> , 2011, 3, 316.	2.4	4
51	Elemental Bioimaging in Kidney by LA-ICP-MS As a Tool to Study Nephrotoxicity and Renal Protective Strategies in Cisplatin Therapies. <i>Analytical Chemistry</i> , 2011, 83, 7933-7940.	6.5	130
52	Inductively coupled plasma- and glow discharge plasma-sector field mass spectrometry : Part I. Tutorial: Fundamentals and instrumentation. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 693.	3.0	61
53	Inductively coupled plasma- and glow discharge plasma-sector field mass spectrometry : Part II. Applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 727.	3.0	34
54	Multi-parametric analysis of cytochrome P450 expression in rat liver microsomes by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 310-319.	3.0	36

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55	Multiplexed Immunohistochemical Detection of Tumor Markers in Breast Cancer Tissue Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 8177-8183.	6.5	97
56	Comparison of ICP-MS and photometric detection of an immunoassay for the determination of ochratoxin A in wine. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1567.	3.0	27
57	Mass spectrometric study of the impurity profile in Zn during reduction-distillation of ZnO with activated and inactivated Al. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1620-1623.	2.8	1
58	Methods for the discovery of low-abundance biomarkers for urinary bladder cancer in biological fluids. <i>Bioanalysis</i> , 2010, 2, 295-309.	1.5	18
59	Real time monitoring of chemical transformations during catalytic reduction using gas source mass spectrometry: carbon/zinc carbonate hydroxide. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1378.	3.0	1
60	A novel solid phase extraction method for pre-concentration of gadolinium and gadolinium based MRI contrast agents from the environment. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1573.	3.0	21
61	The synergy of elemental and biomolecular mass spectrometry: new analytical strategies in life sciences. <i>Chemical Society Reviews</i> , 2009, 38, 1969.	38.1	133
62	Labelling of antibodies and detection by laser ablation inductively coupled plasma mass spectrometry : PART III. Optimization of antibody labelling for application in a Western blot procedure. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 924.	3.0	46
63	Screening of selenium containing proteins in the Tris-buffer soluble fraction of African catfish (<i>Clarias gariepinus</i>) fillets by laser ablation-ICP-MS after SDS-PAGE and electroblotting onto membranes. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 775.	3.0	30
64	Detection of electrophoretically separated cytochromes P450 by element-labelled monoclonal antibodies via laser ablation inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 1135-1147.	3.7	35
65	Analytical plasma ion sources for elemental mass spectrometry: where are we coming from—where are we going to?. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 673.	3.0	9
66	Labelling of proteins by use of iodination and detection by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1487.	3.0	52
67	Labelling of proteins with 2-(4-isothiocyanatobenzyl)-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid and lanthanides and detection by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1497.	3.0	80
68	On-line coupling of gel electrophoresis (GE) and inductively coupled plasma-mass spectrometry (ICP-MS) for the detection of Fe in metalloproteins. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 917-924.	3.0	37
69	Laser ablation-ICP-MS assay development for detecting Cd- and Zn-binding proteins in Cd-exposed <i>Spinacia oleracea</i> L.. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 878.	3.0	38
70	Trends in glow discharge spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 722.	3.0	73
71	Lipocalin 24p3 is regulated by the Wnt pathway independent of regulation by iron. <i>Cancer Genetics and Cytogenetics</i> , 2007, 174, 16-23.	1.0	24
72	Optimisation of a laser ablation cell for detection of hetero-elements in proteins blotted onto membranes by use of inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 1006.	3.0	62

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73	State of the art report of selenium speciation in biological samples. Journal of Analytical Atomic Spectrometry, 2006, 21, 639-654.	3.0	89
74	A new ion source design for inductively coupled plasma mass spectrometry (ICP-MS). Journal of Analytical Atomic Spectrometry, 2006, 21, 197-200.	3.0	15
75	Quantitative determination of melphalan DNA adducts using HPLC-inductively coupled mass spectrometry. Journal of Mass Spectrometry, 2006, 41, 507-516.	1.6	45
76	Speciation of Sulfur. , 2005, , 378-407.		1
77	Styrene oxide DNA adducts: quantitative determination using 31P monitoring. Analytical and Bioanalytical Chemistry, 2005, 381, 205-211.	3.7	40
78	Depth profiling with modified dc-Grimm and rf-Grimm-type glow discharges operated with high gas flow rates and coupled to a high-resolution mass spectrometer. Analytical and Bioanalytical Chemistry, 2005, 382, 1965-1974.	3.7	27
79	Speciation of Chromium. , 2005, , 120-135.		12
80	Bioaccumulation of platinum group elements and characterization of their species in Lolium multiflorum by size-exclusion chromatography coupled with ICP-MS. Science of the Total Environment, 2004, 322, 95-108.	8.0	53
81	Determination of Cr(VI) in ambient airborne particulate matter by a species-preserving scrubber-sampling technique. Analytical and Bioanalytical Chemistry, 2004, 378, 123-128.	3.7	13
82	Changes of the Metal Composition in German White Wines through the Winemaking Process. A Study of 63 Elements by Inductively Coupled Plasma-Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2004, 52, 2953-2961.	5.2	90
83	Classification of German White Wines with Certified Brand of Origin by Multielement Quantitation and Pattern Recognition Techniques. Journal of Agricultural and Food Chemistry, 2004, 52, 2962-2974.	5.2	82
84	Metallobiomolecules. The basis of life, the challenge of atomic spectroscopy. Journal of Analytical Atomic Spectrometry, 2004, 19, 1.	3.0	86
85	International Symposium on GDOES for Surface Analysis, Keio University, Yokohama, Japan, November 19-21, 2002. Journal of Analytical Atomic Spectrometry, 2003, 18, 2N-2N.	3.0	1
86	Quantification of silylated organic compounds using gas chromatography coupled to ICP-MS. Journal of Analytical Atomic Spectrometry, 2002, 17, 1209-1212.	3.0	16
87	Development and analytical characterization of a Grimm-type glow discharge ion source operated with high gas flow rates and coupled to a mass spectrometer with high mass resolution. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 1521-1533.	2.9	41
88	Analysis of Protein Phosphorylation by Capillary Liquid Chromatography Coupled to Element Mass Spectrometry with 31P Detection and to Electrospray Mass Spectrometry. Analytical Chemistry, 2001, 73, 29-35.	6.5	164
89	Speciation of nickel in airborne particulate matter by means of sequential extraction in a micro flow system and determination by graphite furnace atomic absorption spectrometry and inductively coupled plasma mass spectrometry. Journal of Environmental Monitoring, 2001, 3, 681-687.	2.1	23
90	Speciation of selenium in human urine by HPLC-ICP-MS with a collision and reaction cell. Journal of Analytical Atomic Spectrometry, 2001, 16, 457-463.	3.0	60

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91	Speciation of organic selenium compounds using reversed-phase liquid chromatography and inductively coupled plasma mass spectrometry : Part III. Application of a sector field instrument with low and high mass resolution for selenium speciation in herring gull eggs.. Journal of Analytical Atomic Spectrometry, 2001, 16, 135-139.	3.0	16
92	Speciation of organic selenium compounds by reversed-phase liquid chromatography and inductively coupled plasma mass spectrometry. Part II. Sector field instrument with high mass resolution. Journal of Analytical Atomic Spectrometry, 2000, 15, 371.	3.0	20
93	Comparison of different nebulisers and chromatographic techniques for the speciation of selenium in nutritional commercial supplements by hexapole collision and reaction cell ICP-MS. Journal of Analytical Atomic Spectrometry, 2000, 15, 1093-1102.	3.0	71
94	Glow discharge atomic spectrometry for the analysis of environmental samples ? a review. Journal of Analytical Atomic Spectrometry, 2000, 15, 1516-1525.	3.0	25
95	Analysis of ZrO ₂ powders by microwave assisted digestion at high pressure and ICP atomic spectrometry. Journal of Analytical Atomic Spectrometry, 1999, 14, 1093-1098.	3.0	21
96	Speciation of Chromium by Direct Coupling of Ion Exchange Chromatography With Inductively Coupled Plasma Mass Spectrometry. Journal of Analytical Atomic Spectrometry, 1997, 12, 1155-1161.	3.0	97
97	Comparison of ICP-MS with spark ablation and GDMS for direct element analysis of conductive solids. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1995, 50, 639-654.	2.9	17
98	Plasma diagnostics of an analytical Grimm-type glow discharge in argon and in neon: Langmuir probe and optical emission spectrometry measurements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1995, 50, 1337-1349.	2.9	50
99	Alan Date Memorial Award. Contributions in the field of atmospheric plasma source mass spectrometry. Journal of Analytical Atomic Spectrometry, 1991, 6, 249.	3.0	1
100	Microchemical determination of platinum and iridium by glow discharge mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1991, 46, 155-163.	2.9	42
101	Ultra trace analysis of refractory metals by solid state mass spectrometry ? A comparison of GDMS, SSMS and SIMS. Mikrochimica Acta, 1987, 91, 302-308.	5.0	7