

Maciej Jarosz

List of Publications by Year in descending order

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71
papers

1,833
citations

218677

26
h-index

289244

40
g-index

75
all docs

75
docs citations

75
times ranked

1710
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum metallodrug-protein binding studies by capillary electrophoresis-inductively coupled plasma-mass spectrometry: Characterization of interactions between Pt(II) complexes and human serum albumin. <i>Electrophoresis</i> , 2004, 25, 1988-1995.	2.4	125
2	Identification of indigoid dyes in natural organic pigments used in historical art objects by high-performance liquid chromatography coupled to electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004, 39, 1441-1449.	1.6	102
3	Platinum group metallodrug-protein binding studies by capillary electrophoresis – inductively coupled plasma-mass spectrometry: A further insight into the reactivity of a novel antitumor ruthenium(III) complex toward human serum proteins. <i>Electrophoresis</i> , 2006, 27, 1128-1135.	2.4	100
4	Capillary electrophoresis hyphenated to inductively coupled plasma-mass spectrometry: A novel approach for the analysis of anticancer metallodrugs in human serum and plasma. <i>Electrophoresis</i> , 2008, 29, 2224-2232.	2.4	86
5	Identification of anthraquinone coloring matters in natural red dyes by electrospray mass spectrometry coupled to capillary electrophoresis. <i>Journal of Mass Spectrometry</i> , 2003, 38, 1252-1258.	1.6	58
6	Blue natural organic dyestuffs – from textile dyeing to mural painting. Separation and characterization of coloring matters present in elderberry, logwood and indigo. <i>Journal of Mass Spectrometry</i> , 2006, 41, 613-622.	1.6	57
7	Novel methodology for the extraction and identification of natural dyestuffs in historical textiles by HPLC-UV-Vis-ESI MS. Case study: chasubles from the Wawel Cathedral collection. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3241-3251.	3.7	56
8	Uptake, translocation, size characterization and localization of cerium oxide nanoparticles in radish (<i>Raphanus sativus</i> L.). <i>Science of the Total Environment</i> , 2019, 683, 284-292.	8.0	56
9	Speciation of metal-based nanomaterials in human serum characterized by capillary electrophoresis coupled to ICP-MS: a case study of gold nanoparticles. <i>Metallomics</i> , 2015, 7, 1364-1370.	2.4	55
10	Identification of anthraquinone coloring matters in natural red dyestuffs by high performance liquid chromatography with ultraviolet and electrospray mass spectrometric detection. <i>Journal of Separation Science</i> , 2003, 26, 1028-1034.	2.5	51
11	Saffron yellow: characterization of carotenoids by high performance liquid chromatography with electrospray mass spectrometric detection. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1661-1667.	1.6	48
12	Probing the stability of serum protein – ruthenium(III) drug adducts in the presence of extracellular reductants using CE. <i>Electrophoresis</i> , 2007, 28, 2235-2240.	2.4	46
13	Application of capillary electrophoresis – inductively coupled plasma mass spectrometry to comparative studying of the reactivity of antitumor ruthenium(III) complexes differing in the nature of counter-ion toward human serum proteins. <i>Journal of Chromatography A</i> , 2008, 1192, 323-326.	3.7	44
14	Identification of unknown colorants in pre-Columbian textiles dyed with American cochineal (<i>Dactylopius coccus</i> Costa) using high-performance liquid chromatography and tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 855-867.	3.7	43
15	Identification of Polish cochineal (<i>Porphyrophora polonica</i> L.) in historical textiles by high-performance liquid chromatography coupled with spectrophotometric and tandem mass spectrometric detection. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3349-3358.	3.7	40
16	Advances of CE-ICP-MS in speciation analysis related to metalloproteomics of anticancer drugs. <i>Talanta</i> , 2012, 102, 164-170.	5.5	38
17	Metallomics for drug development: an integrated CE-ICP-MS and ICP-MS approach reveals the speciation changes for an investigational ruthenium(III) drug bound to holo-transferrin in simulated cancer cytosol. <i>Metallomics</i> , 2013, 5, 955.	2.4	37
18	Sensitive reversed-phase liquid chromatographic determination of hydrogen peroxide and glucose based on ternary vanadium(V)-hydrogen peroxide-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol system. <i>Analytica Chimica Acta</i> , 2000, 421, 35-43.	5.4	36

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19	Elucidation of the fate of zinc in model plants using single particle ICP-MS and ESI tandem MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 683-693.	3.0	36
20	Study of the formation of vanadium(IV) complexes with some triphenylmethane reagents and cationic surfactants. <i>Analyst</i> , 1984, 109, 35.	3.5	34
21	Elucidation of the Interactions of an Anticancer Ruthenium Complex in Clinical Trials with Biomolecules Utilizing Capillary Electrophoresis Hyphenated to Inductively Coupled Plasma-Mass Spectrometry. Short Communication. <i>Chemistry and Biodiversity</i> , 2008, 5, 1609-1614.	2.1	33
22	Early synthetic dyes – a challenge for tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013, 48, 141-147.	1.6	31
23	Characterization of TiO ₂ NPs in Radish (<i>Raphanus sativus</i> L.) by Single-Particle ICP-QQQ-MS. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	30
24	Characterization of the protein corona of gold nanoparticles by an advanced treatment of CE-ICP-MS data. <i>Electrophoresis</i> , 2016, 37, 2257-2259.	2.4	29
25	Analytical methodology for studying cellular uptake, processing and localization of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2019, 1052, 1-9.	5.4	28
26	HPLC-UV-ESI MS/MS identification of the color constituents of sawwort (<i>Serratula tinctoria</i> L.). <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3703-3708.	3.7	26
27	Metallomics for drug development: a further insight into intracellular activation chemistry of a ruthenium(III)-based anticancer drug gained using a multidimensional analytical approach. <i>Metallomics</i> , 2014, 6, 147-153.	2.4	26
28	Old master paintings - A fruitful field of activity for analysts: Targets, methods, outlook. <i>Journal of Separation Science</i> , 2003, 26, 996-1004.	2.5	22
29	A versatile approach for assaying in vitro metallodrug metabolism using CE hyphenated with ICP-MS. <i>Analyst</i> , 2009, 134, 1999.	3.5	22
30	Comparison of detection techniques for capillary electrophoresis analysis of gold nanoparticles. <i>Electrophoresis</i> , 2015, 36, 1158-1163.	2.4	22
31	Identification of degradation products of indigoids by tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1245-1251.	1.6	21
32	CE Separation and ICP-MS Detection of Gold Nanoparticles and Their Protein Conjugates. <i>Chromatographia</i> , 2017, 80, 1695-1700.	1.3	21
33	Sensitive reversed-phase liquid chromatographic determination of fluoride based on its ternary systems with zirconium(IV) or hafnium(IV) and 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol. <i>Analyst</i> , 1998, 123, 1529-1533.	3.5	19
34	The fate of differently functionalized gold nanorods in human serum: A response from capillary electrophoresis-inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1499, 222-225.	3.7	19
35	Determination of fluoride impurities in Leuprolide. Comparison of analytical methods. <i>Microchemical Journal</i> , 2000, 65, 51-58.	4.5	18
36	Mass spectrometric investigation of gallium and zirconium complexes with octaethylporphyrin and tetraphenylporphyrin. <i>Journal of Mass Spectrometry</i> , 2002, 37, 1236-1241.	1.6	17

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37	Combination of ICP-MS, capillary electrophoresis, and their hyphenation for probing Ru(III) metallodrugâ€™DNA interactions. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2421-2427.	3.7	17
38	Study of ternary thorium complexes with some triphenylmethane reagents and cationic surfactants. <i>Analyst, The</i> , 1986, 111, 681.	3.5	16
39	Metall(rote)omic studies by capillary electrophoresis using separation capillary as an in-line reactor. <i>Metallomics</i> , 2011, 3, 761.	2.4	16
40	Cellular processing of gold nanoparticles: CE-ICP-MS evidence for the speciation changes in human cytosol. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1151-1156.	3.7	15
41	To-Do and Not-To-Do in Model Studies of the Uptake, Fate and Metabolism of Metal-Containing Nanoparticles in Plants. <i>Nanomaterials</i> , 2020, 10, 1480.	4.1	15
42	RP-HPLC study of redox equilibria in vanadium-PAR binary and ternary systems: Direct determination of vanadium in steel. <i>Mikrochimica Acta</i> , 1997, 126, 241-249.	5.0	14
43	Investigation of iodine bioavailability from chicken eggs versus iodized kitchen salt with in vitro method. <i>European Food Research and Technology</i> , 2012, 234, 913-919.	3.3	14
44	A sensitive and versatile method for characterization of protein-mediated transformations of quantum dots. <i>Analyst, The</i> , 2016, 141, 2574-2580.	3.5	14
45	An improved protocol for ICP-MS-based assessment of the cellular uptake of metal-based nanoparticles. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 174, 300-304.	2.8	14
46	Molecular mass spectrometry in metallodrug development: A case of mapping transferrin-mediated transformations for a ruthenium(III) anticancer drug. <i>Analytica Chimica Acta</i> , 2014, 851, 72-77.	5.4	13
47	A shotgun metalloproteomic approach enables identification of proteins involved in the speciation of a ruthenium anticancer drug in the cytosol of cancer cells. <i>Analyst, The</i> , 2015, 140, 3492-3499.	3.5	13
48	Study of chicken egg protein influence on bioavailability of vitamin B12 by SEC-ICP MS and ESI MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 608.	3.0	12
49	High-resolution ICP-MS approach for characterization of magnetic nanoparticles for biomedical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 189, 113479.	2.8	12
50	Capillaryâ€™HPLC with tandem mass spectrometry in analysis of alkaloid dyestuffs â€™ a new approach. <i>Electrophoresis</i> , 2018, 39, 1276-1283.	2.4	9
51	Toward a deeper and simpler understanding of serum protein-mediated transformations of magnetic nanoparticles by ICP-MS. <i>Talanta</i> , 2021, 229, 122287.	5.5	9
52	Atmospheric pressure chemical ionization mass spectrometric and visible spectrophotometric studies of copper(I) and copper(II) complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1230-1236.	1.6	8
53	Can neutral analytes be concentrated by transient isotachopheresis in micellar electrokinetic chromatography and how much?. <i>Journal of Chromatography A</i> , 2014, 1345, 212-218.	3.7	8
54	Use of high-performance liquid chromatographyâ€™tandem electrospray ionization mass spectrometry to assess the speciation of a ruthenium(III) anticancer drug in the cytosol of cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4857-4862.	3.7	8

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55	Study of the formation of some substituted triphenylmethane reagent-cationic surfactant associates. <i>Analyst</i> , The, 1987, 112, 1279.	3.5	7
56	Spectrophotometric determination of lead with Pyrocatechol Violet and cationic surfactants. <i>Microchemical Journal</i> , 1988, 37, 322-325.	4.5	7
57	New validated HPLC methodology for the determination of ($\hat{\alpha}$)-trans-paroxetine and its enantiomer in pharmaceutical formulations with use of ovomucoid chiral stationary phase. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3697-3702.	3.7	7
58	Indirect spectrophotometric determination of fluoride using the ternary system: Thorium-chrome azulol S-cetyltrimethylammonium. <i>Mikrochimica Acta</i> , 1984, 84, 485-490.	5.0	6
59	Spectrophotometric Determination of Niobium with Hydrogen Peroxide and 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol in Steel and Apatite after Its Extractive Separation as .ALPHA.-Benzoin Oxamate.. <i>Analytical Sciences</i> , 1993, 9, 285-288.	1.6	6
60	Reversed-phase liquid chromatographic determination of uranium based on its ternary complex with fluoride and 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol. New chromatographic probe for the detection of fluoride on C18 stationary phase surface. <i>Talanta</i> , 2000, 51, 817-824.	5.5	6
61	Electrospray mass spectrometric investigation of the influence of the nature of mobile phase on the ionization of gallium and zirconium porphyrins. <i>Journal of Mass Spectrometry</i> , 2003, 38, 1265-1266.	1.6	6
62	Characterization of quantum dots in cancer cytosol using ICP-MS-based combined techniques. <i>Analytical Biochemistry</i> , 2019, 584, 113387.	2.4	6
63	Spectrophotometric study of the formation of ternary complexes of iron(III) with some triphenylmethane dyes and cationic surfactants. <i>Microchemical Journal</i> , 1988, 37, 268-274.	4.5	5
64	Characterization of Organic Natural Dyes by Electrospray Mass Spectrometry Coupled with HPLC and/or Capillary Electrophoresis. , 0, , 363-388.		5
65	Metal-Specific Response of High-Resolution ICP-MS for Proteins Binding to Gold Nanoparticles in Human Serum. <i>Analytical Chemistry</i> , 2021, 93, 14918-14922.	6.5	3
66	Protein-Mediated Transformations of Superparamagnetic Nanoparticles Evidenced by Single-Particle Inductively Coupled Plasma Tandem Mass Spectrometry: A Disaggregation Phenomenon. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1088.	4.1	3
67	The new HPLC methodology for the chiral separation of tamsulosin enantiomers on amylose tris(3,5-dimethylphenylcarbamate) stationary phase. <i>Talanta</i> , 2012, 102, 75-78.	5.5	2
68	Current and emerging mass spectrometry methods for the preclinical development of metal-based drugs: a critical appraisal. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 95-102.	3.7	2
69	Inorganic and Bioinorganic Speciation Analysis: Problems and Prospects. , 2016, , 333-370.		2
70	Mass-spectrometric studies of new 6-nitroquipazinesâ€™ serotonin transporter inhibitors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 537-541.	3.7	0
71	Metal-Based Nanomaterials in Biological Matrices. , 2022, , 611-626.		0