

Magdalena Matczuk

List of Publications by Year in descending order

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514
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623574

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34
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34
times ranked

534
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.0	55
2	Advances of CE-ICP-MS in speciation analysis related to metalloproteomics of anticancer drugs. <i>Talanta</i> , 2012, 102, 164-170.	2.9	38
3	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.	1.0	37
4	Characterization of the protein corona of gold nanoparticles by an advanced treatment of CE-ICP-MS data. <i>Electrophoresis</i> , 2016, 37, 2257-2259.	1.3	29
5	Analytical methodology for studying cellular uptake, processing and localization of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2019, 1052, 1-9.	2.6	28
6	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.	1.0	26
7	Comparison of detection techniques for capillary electrophoresis analysis of gold nanoparticles. <i>Electrophoresis</i> , 2015, 36, 1158-1163.	1.3	22
8	Characterization of interactions of metal-containing nanoparticles with biomolecules by CE: An update (2012-2016). <i>Electrophoresis</i> , 2017, 38, 1661-1668.	1.3	22
9	CE Separation and ICP-MS Detection of Gold Nanoparticles and Their Protein Conjugates. <i>Chromatographia</i> , 2017, 80, 1695-1700.	0.7	21
10	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.	1.8	19
11	Methodology for characterization of platinum-based drug's targeted delivery nanosystems. <i>Journal of Controlled Release</i> , 2021, 335, 178-190.	4.8	19
12	Combination of ICP-MS, capillary electrophoresis, and their hyphenation for probing Ru(III) metallodrug-DNA interactions. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2421-2427.	1.9	17
13	A CE-ICP-MS/MS method for the determination of superparamagnetic iron oxide nanoparticles under simulated physiological conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8145-8153.	1.9	17
14	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.	1.9	15
15	A sensitive and versatile method for characterization of protein-mediated transformations of quantum dots. <i>Analyst</i> , 2016, 141, 2574-2580.	1.7	14
16	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.	1.4	14
17	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.	2.6	13
18	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</i> , 2015, 140, 3492-3499.	1.7	13

#	ARTICLE	IF	CITATIONS
19	New solvents for metal extraction – NADES. Prediction and optimization of efficient extraction of selected metals by ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 946-953.	1.6	13
20	Joint forces of direct, single particle, CE and HPLC – inductively coupled plasma mass spectrometry techniques for the examination of gold nanoparticle accumulation, distribution and changes inside human cells. <i>Metallomics</i> , 2020, 12, 408-415.	1.0	12
21	How to effectively prepare a sample for bottom-up proteomic analysis of nanoparticle protein corona? A critical review. <i>Talanta</i> , 2021, 226, 122153.	2.9	10
22	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.	1.8	8
23	Use of high-performance liquid chromatography – 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.	1.9	8
24	Targeted Delivery of Cisplatin by Gold Nanoparticles: The Influence of Nanocarrier Surface Modification Type on the Efficiency of Drug Binding Examined by CE-ICP-MS/MS. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2324.	1.8	8
25	The impact of the various chemical and physical factors on the degradation rate of bronopol. <i>International Journal of Cosmetic Science</i> , 2012, 34, 451-457.	1.2	7
26	Analytical methodology for determination of interactions between metallodrugs and DNA: A critical examination. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 90, 107-113.	5.8	6
27	Characterization of quantum dots in cancer cytosol using ICP-MS-based combined techniques. <i>Analytical Biochemistry</i> , 2019, 584, 113387.	1.1	6
28	First application of CE – ICP – MS for monitoring the formation of cisplatin targeting delivery systems with gold nanocarriers. <i>Electrophoresis</i> , 2020, 41, 394-398.	1.3	6
29	Optimization of a CE-ICP-MS/MS method for the investigation of liposome – cisplatin nanosystems and their interactions with transferrin. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 1442-1449.	1.6	4
30	Simple Ultraviolet – Visible Spectroscopy-Based Assay for Fast Evaluation of Magnetic Nanoparticle Selectivity Changes After Doping. <i>Applied Spectroscopy</i> , 2021, 75, 1305-1311.	1.2	3
31	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.	1.8	3
32	Metal-Based Nanomaterials in Biological Matrices. , 2022, , 611-626.		0