Magdalena Matczuk

List of Publications by Year
in descending order

32 papers	514 citations	623188 14 h-index	676716 22 g-index
34 all docs	34 docs citations	34 times ranked	534 citing authors

#	Article	IF	Citations
1	Protein-Mediated Transformations of Superparamagnetic Nanoparticles Evidenced by Single-Particle Inductively Coupled Plasma Tandem Mass Spectrometry: A Disaggregation Phenomenon. International Journal of Molecular Sciences, 2022, 23, 1088.	1.8	3
2	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. International Journal of Molecular Sciences, 2022, 23, 2324.	1.8	8
3	Optimization of a CE-ICP-MS/MS method for the investigation of liposomeâ€“cisplatin nanosystems and their interactions with transferrin. Journal of Analytical Atomic Spectrometry, 2022, 37, 1442-1449.	1.6	4
4	Metal-Based Nanomaterials in Biological Matrices. , 2022, , 611-626.		0
5	New solvents for metal extraction â€“ NADES. Prediction and optimization of efficient extraction of selected metals by ICP-MS/MS. Journal of Analytical Atomic Spectrometry, 2021, 36, 946-953.	1.6	13
6	How to effectively prepare a sample for bottom-up proteomic analysis of nanoparticle protein corona? A critical review. Talanta, 2021, 226, 122153.	2.9	10
7	Simple Ultravioletâ€“Visible Spectroscopy-Based Assay for Fast Evaluation of Magnetic Nanoparticle Selectivity Changes After Doping. Applied Spectroscopy, 2021, 75, 1305-1311.	1.2	3
8	Methodology for characterization of platinum-based drug's targeted delivery nanosystems. Journal of Controlled Release, 2021, 335, 178-190.	4.8	19
9	Joint forces of direct, single particle, CEâ€“ and HPLCâ€“inductively coupled plasma mass spectrometry techniques for the examination of gold nanoparticle accumulation, distribution and changes inside human cells. Metallomics, 2020, 12, 408-415.	1.0	12
10	A CE-ICP-MS/MS method for the determination of superparamagnetic iron oxide nanoparticles under simulated physiological conditions. Analytical and Bioanalytical Chemistry, 2020, 412, 8145-8153.	1.9	17
11	First application of CEâ€ICPâ€MS for monitoring the formation of cisplatin targeting delivery systems with gold nanocarriers. Electrophoresis, 2020, 41, 394-398.	1.3	6
12	Characterization of quantum dots in cancer cytosol using ICP-MS-based combined techniques. Analytical Biochemistry, 2019, 584, 113387.	1.1	6
13	An improved protocol for ICP-MS-based assessment of the cellular uptake of metal-based nanoparticles. Journal of Pharmaceutical and Biomedical Analysis, 2019, 174, 300-304.	1.4	14
14	Analytical methodology for studying cellular uptake, processing and localization of gold nanoparticles. Analytica Chimica Acta, 2019, 1052, 1-9.	2.6	28
15	Cellular processing of gold nanoparticles: CE-ICP-MS evidence for the speciation changes in human cytosol. Analytical and Bioanalytical Chemistry, 2018, 410, 1151-1156.	1.9	15
16	Combination of ICP-MS, capillary electrophoresis, and their hyphenation for probing Ru(III) metallodrugâ€“DNA interactions. Analytical and Bioanalytical Chemistry, 2017, 409, 2421-2427.	1.9	17
17	The fate of differently functionalized gold nanorods in human serum: A response from capillary electrophoresisâ€“inductively coupled plasma mass spectrometry. Journal of Chromatography A, 2017, 1499, 222-225.	1.8	19
18	Characterization of interactions of metalâ€containing nanoparticles with biomolecules by CE: An update (2012â€“2016). Electrophoresis, 2017, 38, 1661-1668.	1.3	22

#	ARTICLE	IF	CITATIONS
19	Analytical methodology for determination of interactions between metallodrugs and DNA: A critical examination. TrAC - Trends in Analytical Chemistry, 2017, 90, 107-113.	5.8	6
20	CE Separation and ICP-MS Detection of Gold Nanoparticles and Their Protein Conjugates. Chromatographia, 2017, 80, 1695-1700.	0.7	21
21	Characterization of the protein corona of gold nanoparticles by an advanced treatment of CEâ€ICPâ€MS data. Electrophoresis, 2016, 37, 2257-2259.	1.3	29
22	A sensitive and versatile method for characterization of protein-mediated transformations of quantum dots. Analyst, The, 2016, 141, 2574-2580.	1.7	14
23	Comparison of detection techniques for capillary electrophoresis analysis of gold nanoparticles. Electrophoresis, 2015, 36, 1158-1163.	1.3	22
24	A shotgun metalloproteomic approach enables identification of proteins involved in the speciation of a ruthenium anticancer drug in the cytosol of cancer cells. Analyst, The, 2015, 140, 3492-3499.	1.7	13
25	Speciation of metal-based nanomaterials in human serum characterized by capillary electrophoresis coupled to ICP-MS: a case study of gold nanoparticles. Metallomics, 2015, 7, 1364-1370.	1.0	55
26	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. Analytical and Bioanalytical Chemistry, 2015, 407, 4857-4862.	1.9	8
27	Metallomics for drug development: a further insight into intracellular activation chemistry of a ruthenium(<scp>iii</scp>)-based anticancer drug gained using a multidimensional analytical approach. Metallomics, 2014, 6, 147-153.	1.0	26
28	Molecular mass spectrometry in metallodrug development: A case of mapping transferrin-mediated transformations for a ruthenium(III) anticancer drug. Analytica Chimica Acta, 2014, 851, 72-77.	2.6	13
29	Can neutral analytes be concentrated by transient isotachophoresis in micellar electrokinetic chromatography and how much?. Journal of Chromatography A, 2014, 1345, 212-218.	1.8	8
30	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. Metallomics, 2013, 5, 955.	1.0	37
31	Advances of CE-ICP-MS in speciation analysis related to metalloproteomics of anticancer drugs. Talanta, 2012, 102, 164-170.	2.9	38
32	The impact of the various chemical and physical factors on the degradation rate of bronopol. International Journal of Cosmetic Science, 2012, 34, 451-457.	1.2	7