

Marijana Z Petkovic

List of Publications by Citations

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77
papers

1,757
citations

19
h-index

40
g-index

81
ext. papers

1,933
ext. citations

3.4
avg, IF

4.26
L-index

#	Paper	IF	Citations
77	Matrix-assisted laser desorption and ionization time-of-flight (MALDI-TOF) mass spectrometry in lipid and phospholipid research. <i>Progress in Lipid Research</i> , 2004 , 43, 449-88	14.3	316
76	Detection of individual phospholipids in lipid mixtures by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry: phosphatidylcholine prevents the detection of further species. <i>Analytical Biochemistry</i> , 2001 , 289, 202-16	3.1	276
75	The suitability of different DHB isomers as matrices for the MALDI-TOF MS analysis of phospholipids: which isomer for what purpose?. <i>European Biophysics Journal</i> , 2007 , 36, 517-27	1.9	117
74	Limits for the detection of (poly-)phosphoinositides by matrix-assisted laser desorption and ionization time-of-flight mass spectrometry (MALDI-TOF MS). <i>Chemistry and Physics of Lipids</i> , 2001 , 110, 151-64	3.7	91
73	The signal-to-noise ratio as the measure for the quantification of lysophospholipids by matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry. <i>Analyst, The</i> , 2001 , 126, 1042-50	5	57
72	CsCl as an auxiliary reagent for the analysis of phosphatidylcholine mixtures by matrix-assisted laser desorption and ionization time-of-flight mass spectrometry (MALDI-TOF MS). <i>Chemistry and Physics of Lipids</i> , 2001 , 113, 123-31	3.7	56
71	The Profile and Antimicrobial Activity of Lipopeptide Extracts of Five Potential Biocontrol Strains. <i>Frontiers in Microbiology</i> , 2017 , 8, 925	5.7	47
70	Application of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for monitoring the digestion of phosphatidylcholine by pancreatic phospholipase A(2). <i>Analytical Biochemistry</i> , 2002 , 308, 61-70	3.1	46
69	Negative-ion matrix-assisted laser desorption and ionization time-of-flight mass spectra of complex phospholipid mixtures in the presence of phosphatidylcholine: a cautionary note on peak assignment. <i>Analytical Biochemistry</i> , 2002 , 309, 311-4	3.1	46
68	Mechanism of complex formation between [AuCl ₄] ⁻ and L-methionine. <i>Polyhedron</i> , 2009 , 28, 593-599	2.7	38
67	Thermal stressing of unsaturated vegetable oils: effects analysed by MALDI-TOF mass spectrometry, ¹ H and ³¹ P NMR spectroscopy. <i>European Food Research and Technology</i> , 2002 , 215, 282-286	3.4	27
66	Analysis of enzymatically generated phosphoinositides by (³¹ P) nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2004 , 330, 167-71	3.1	23
65	Effects of lysophospholipids on the generation of reactive oxygen species by fMLP- and PMA-stimulated human neutrophils. <i>Luminescence</i> , 2002 , 17, 141-9	2.5	22
64	Effects of thermal stressing on saturated vegetable oils and isolated triacylglycerols - product analysis by MALDI-TOF mass spectrometry, NMR and IR spectroscopy. <i>European Journal of Lipid Science and Technology</i> , 2002 , 104, 496-505	3	21
63	Na ⁺ ,K ⁺ -ATPase as the Target Enzyme for Organic and Inorganic Compounds. <i>Sensors</i> , 2008 , 8, 8321-8360,8	3.8	20
62	The photoprotein pholasin as a luminescence substrate for detection of superoxide anion radicals and myeloperoxidase activity in stimulated neutrophils. <i>Free Radical Research</i> , 2001 , 35, 723-33	4	20
61	SALDI-TOF-MS analyses of small molecules (citric acid, dexasone, vitamins E and A) using TiO ₂ nanocrystals as substrates. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 7481-90	4.4	20

60	Colloidal TiO ₂ nanoparticles as substrates for M(S)ALDI mass spectrometry of transition metal complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2041-50	2.2	19
59	Flavonoids as matrices for MALDI-TOF mass spectrometric analysis of transition metal complexes. <i>International Journal of Mass Spectrometry</i> , 2010 , 290, 39-46	1.9	18
58	Application of flavonoids - quercetin and rutin - as new matrices for matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis of Pt(II) and Pd(II) complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 1467-75	2.2	17
57	Comparison of different procedures for the lipid extraction from HL-60 cells: a MALDI-TOF mass spectrometric study. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005 , 60, 143-51	1.7	17
56	Modification of electrodes with N-and S-doped carbon dots. Evaluation of the electrochemical response. <i>Talanta</i> , 2020 , 212, 120806	6.2	16
55	Structure analysis of geopolymers synthesized from clay originated from Serbia. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	15
54	Estradiol enhances effects of fructose rich diet on cardiac fatty acid transporter CD36 and triglycerides accumulation. <i>European Journal of Pharmacology</i> , 2012 , 694, 127-34	5.3	15
53	Laser desorption and ionization time-of-flight matrix-assisted laser desorption and ionization time-of-flight mass spectrometry of and metal complexes. <i>Analytical Methods</i> , 2011 , 3, 400-407	3.2	13
52	FAB, ESI and MALDI Mass Spectrometric methods in the study of metallo-drugs and their biomolecular interactions. <i>Metallomics</i> , 2011 , 3, 550-65	4.5	13
51	The effect of the concentration of alkaline activator and aging time on the structure of metakaolin based geopolymer. <i>Science of Sintering</i> , 2020 , 52, 219-229	0.7	13
50	Prooxidant-antioxidant balance, advanced oxidation protein products and lipid peroxidation in Serbian patients with Parkinson's disease. <i>International Journal of Neuroscience</i> , 2018 , 128, 600-607	2	13
49	Suitability of TiO ₂ nanoparticles and prolate nanospheroids for laser desorption/ionization mass spectrometric characterization of bipyridine-containing complexes. <i>Materials Letters</i> , 2015 , 150, 84-88	3.3	12
48	The thermal stability of the external invertase isoforms from <i>Saccharomyces cerevisiae</i> correlates with the surface charge density. <i>Biochimie</i> , 2012 , 94, 510-5	4.6	12
47	Synthesis, characterization, DFT study, DNA/BSA-binding affinity, and cytotoxicity of some dinuclear and trinuclear gold(III) complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2019 , 24, 1057-1073	2.7	11
46	TiO ₂ nanocrystals assisted laser desorption and ionization time-of-flight mass spectrometric analysis of steroid hormones, amino acids and saccharides. Validation and comparison of methods. <i>RSC Advances</i> , 2016 , 6, 1027-1036	3.7	11
45	Light controlled metallo-drug delivery system based on the TiO ₂ -nanoparticles and Ru-complex. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 347, 55-66	4.7	11
44	Destabilization of the acrosome results in release of phospholipase A2 from human spermatozoa and subsequent formation of lysophospholipids. <i>Andrologia</i> , 2006 , 38, 69-75	2.4	11
43	Involvement of phosphatidic acid in both degranulation and oxidative activity in fMet-Leu-Phe stimulated polymorphonuclear leukocytes. <i>Cellular Physiology and Biochemistry</i> , 2003 , 13, 165-72	3.9	11

42	Elucidation of the binding sites of two novel Ru(II) complexes on bovine serum albumin. <i>Journal of Inorganic Biochemistry</i> , 2016 , 159, 89-95	4.2	11
41	Detection of Adducts with Matrix Clusters in the Positive and Negative Ion Mode MALDI-TOF Mass Spectra of Phospholipids. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009 , 64, 331-334	1	10
40	Positive and negative nano-electrospray mass spectrometry of ruthenated serum albumin supported by docking studies: an integrated approach towards defining metallodrug binding sites on proteins. <i>Metallomics</i> , 2018 , 10, 587-594	4.5	9
39	Dependence of the quality of SALDI TOF MS analysis on the TiO ₂ nanocrystals size and shape. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	9
38	Matrix-assisted laser desorption and ionisation time-of-flight mass spectrometry of Pt(II) and Pd(II) complexes. <i>Polyhedron</i> , 2009 , 28, 2905-2912	2.7	9
37	Interaction of the [PtCl ₂ (DMSO) ₂] complex with L-cysteine. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2009 , 64, 103-8	1.7	9
36	Functional titanium dioxide nanoparticle conjugated with phthalocyanine and folic acid as a promising photosensitizer for targeted photodynamic therapy in vitro and in vivo. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 215, 112122	6.7	9
35	Biological activity and binding properties of [Ru(II)(dcbpy) ₂ Cl ₂] complex to bovine serum albumin, phospholipase A ₂ and glutathione. <i>BioMetals</i> , 2016 , 29, 921-33	3.4	8
34	Interactions of nitrogen-donor bio-molecules with dinuclear platinum(II) complexes. <i>Journal of Coordination Chemistry</i> , 2015 , 68, 3148-3163	1.6	8
33	Inhibitory effect of platinum and ruthenium bipyridyl complexes on porcine pancreatic phospholipase A ₂ . <i>Metallomics</i> , 2011 , 3, 1056-63	4.5	8
32	Preparation of smallest microparticles of poly-D,L-lactide by modified precipitation method: influence of the process parameters. <i>Microscopy Research and Technique</i> , 2008 , 71, 86-92	2.8	8
31	Chemically heterogeneous carbon dots enhanced cholesterol detection by MALDI TOF mass spectrometry. <i>Journal of Colloid and Interface Science</i> , 2021 , 591, 373-383	9.3	7
30	Kinetics and mechanism of substitution reactions of the new bimetallic [(PdCl(bipy)) ₂ (NH ₂ (CH ₂) ₆ H ₂ N)] ₂ [PtCl(bipy)]Cl(ClO ₄) complex with important bio-molecules. <i>Polyhedron</i> , 2015 , 101, 206-214	2.7	6
29	Gender differences in the expression and cellular localization of lipin 1 in the hearts of fructose-fed rats. <i>Lipids</i> , 2014 , 49, 655-63	1.6	6
28	Increased plasma phosphatidylcholine/lysophosphatidylcholine ratios in patients with Parkinson's disease. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8595	2.2	6
27	Performances of ionic liquid matrices with butyl ammonium counterion for matrix-assisted laser desorption/ionization mass spectrometric detection and analysis of sucralfate. <i>Journal of Carbohydrate Chemistry</i> , 2020 , 39, 1-23	1.7	6
26	Detection of Ru potential metallodrug in human urine by MALDI-TOF mass spectrometry: Validation and options to enhance the sensitivity. <i>Talanta</i> , 2021 , 222, 121551	6.2	6
25	Comparison of MALDI-TOF mass spectra of [PdCl(dien)]Cl and [Ru(en) ₂ Cl ₂]Cl acquired with different matrices. <i>Journal of the Serbian Chemical Society</i> , 2011 , 76, 1687-1701	0.9	5

24	Lipid biosignature of breast cancer tissues by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Breast Cancer Research and Treatment</i> , 2020 , 182, 9-19	4.4	4
23	Testing the photo-sensitive nanocomposite system for potential controlled metallo-drug delivery. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	4
22	Application of matrix-assisted laser desorption and ionization time-of-flight mass spectrometry for the characterization of the substrate specificity of neutrophil phospholipase A2. <i>Microchemical Journal</i> , 2005 , 80, 31-37	4.8	4
21	Investigations of the lysophospholipid composition of human neutrophils under different stimulation conditions by matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry. <i>Journal of the Serbian Chemical Society</i> , 2002 , 67, 149-163	0.9	4
20	SR-FTIR spectro-microscopic interaction study of biochemical changes in HeLa cells induced by Levan-C, Pullulan-C, and their cholesterol-derivatives. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2541-2549	7.9	4
19	Thermal denaturation of pepsin at acidic media: Using DSC, MALDI-TOF MS and PAGE techniques. <i>Thermochimica Acta</i> , 2013 , 568, 165-170	2.9	3
18	Interactions of platinum and ruthenium coordination complexes with pancreatic phospholipase A(2) and phospholipids investigated by MALDI TOF mass spectrometry. <i>Chemistry and Biodiversity</i> , 2013 , 10, 1972-86	2.5	3
17	Pancreatic phospholipase A2--mediated enhancement of the respiratory burst response of human neutrophils. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2001 , 56, 1150-6	1.7	3
16	Cross--reactivity of the V3-specific antibodies with the human C1q. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2001 , 56, 1135-43	1.7	3
15	Biocompatibility of TiO ₂ prolate nanospheroids as a potential photosensitizer in therapy of cancer. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	2
14	Bis(triazinyl)pyridine complexes of Pt(II) and Pd(II): studies of the nucleophilic substitution reactions, DNA/HSA interactions, molecular docking and biological activity. <i>Journal of Biological Inorganic Chemistry</i> , 2021 , 26, 625-637	3.7	2
13	Light controllable TiO ₂ -Ru nanocomposite system encapsulated in phospholipid unilamellar vesicles for anti-cancer photodynamic therapy. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	2
12	Gold chloride cluster ions generated by vacuum laser ablation. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	1
11	Inhibitory effect of cisplatin and [Pt(dach)Cl ₂] on the activity of phospholipase A2. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 651-60	5.6	1
10	Sensitivity and accuracy of organic matrix-assisted laser desorption and ionisation mass spectrometry of FeCl ₃ is higher than in in matrix-free approach. <i>European Journal of Mass Spectrometry</i> , 2013 , 19, 77-89	1.1	1
9	Analytical Platforms for the Determination of Phospholipid Turnover in Breast Cancer Tissue: Role of Phospholipase Activity in Breast Cancer Development. <i>Metabolites</i> , 2021 , 11,	5.6	1
8	Controlled killing of human cervical cancer cells by combined action of blue light and C-doped TiO nanoparticles. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 1087-1098	4.2	1
7	Physico-chemical and mechanical properties of geopolymer/zircon composites. <i>Science of Sintering</i> , 2022 , 54, 11-24	0.7	1

6	Biochemical changes in cancer cells induced by photoactive nanosystem based on carbon dots loaded with Ru-complex.. <i>Chemico-Biological Interactions</i> , 2022 , 360, 109950	5	0
5	S, N-doped carbon dots-based cisplatin delivery system in adenocarcinoma cells: Spectroscopical and computational approach.. <i>Journal of Colloid and Interface Science</i> , 2022 , 623, 226-237	9.3	0
4	Potential of MALDI TOF mass spectrometry for detection and quantification of corticosterone in the blood of loggerhead sea turtles. <i>International Journal of Mass Spectrometry</i> , 2022 , 473, 116796	1.9	
3	Determination of isotopic distribution of lead by a matrix assisted laser desorption/ionization versus a laser desorption/ionization time of flight mass spectrometry. <i>Hemijska Industrija</i> , 2017 , 71, 19-28	8.6	
2	Experimental design for optimizing MALDI-TOF-MS analysis of palladium complexes. <i>Hemijska Industrija</i> , 2017 , 71, 281-288	0.6	
1	Detection of Cadmium-related ions by MALDI TOF mass spectrometry correlates with physicochemical properties of Cadmium/matrix adducts. <i>Polyhedron</i> , 2021 , 209, 115463	2.7	