

Marijana Å½ PetkoviÄ

List of Publications by Year in descending order

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79
papers

2,001
citations

361045

20
h-index

264894

42
g-index

81
all docs

81
docs citations

81
times ranked

2230
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 449-488.	5.3	342
2	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, 202-216.	1.1	300
3	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, 517-527.	1.2	129
4	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, 151-164.	1.5	102
5	The Profile and Antimicrobial Activity of Bacillus Lipopeptide Extracts of Five Potential Biocontrol Strains. <i>Frontiers in Microbiology</i> , 2017, 8, 925.	1.5	77
6	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, 123-131.	1.5	63
7	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, 1042-1050.	1.7	61
8	Application of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for monitoring the digestion of phosphatidylcholine by pancreatic phospholipase A2. <i>Analytical Biochemistry</i> , 2002, 308, 61-70.	1.1	50
9	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, 311-314.	1.1	50
10	Mechanism of complex formation between [AuCl ₄] ⁻ and l-methionine. <i>Polyhedron</i> , 2009, 28, 593-599.	1.0	39
11	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.	1.6	33
12	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.	1.7	30
13	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.	1.0	27
14	Effects of lysophospholipids on the generation of reactive oxygen species by fMLP- and PMA-stimulated human neutrophils. <i>Luminescence</i> , 2002, 17, 141-149.	1.5	26
15	Analysis of enzymatically generated phosphoinositides by ³¹ P nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2004, 330, 167-171.	1.1	25
16	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, 723-733.	1.5	24
17	Na ⁺ ,K ⁺ -ATPase as the Target Enzyme for Organic and Inorganic Compounds. <i>Sensors</i> , 2008, 8, 8321-8360.	2.1	24
18	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, 143-152.	0.6	23

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19	Modification of electrodes with N-and S-doped carbon dots. Evaluation of the electrochemical response. <i>Talanta</i> , 2020, 212, 120806.	2.9	23
20	Flavonoids as matrices for MALDI-TOF mass spectrometric analysis of transition metal complexes. <i>International Journal of Mass Spectrometry</i> , 2010, 290, 39-46.	0.7	21
21	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, 7481-7490.	1.9	21
22	Application of flavonoids â€“ quercetin and rutin â€“ as new matrices for matrixâ€“assisted laser desorption/ionization timeâ€“ofâ€“flight mass spectrometric analysis of Pt(II) and Pd(II) complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1467-1475.	0.7	19
23	Estradiol enhances effects of fructose rich diet on cardiac fatty acid transporter CD36 and triglycerides accumulation. <i>European Journal of Pharmacology</i> , 2012, 694, 127-134.	1.7	19
24	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, 2041-2050.	0.7	19
25	Structure analysis of geopolymers synthesized from clay originated from Serbia. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	19
26	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, 1057-1076.	1.1	19
27	Increased plasma phosphatidylcholine/lysophosphatidylcholine ratios in patients with Parkinson's disease. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8595.	0.7	19
28	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.	0.5	19
29	Chemically heterogeneous carbon dots enhanced cholesterol detection by MALDI TOF mass spectrometry. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 373-383.	5.0	18
30	FAB, ESI and MALDI Mass Spectrometric methods in the study of metallo-drugs and their biomolecular interactions. <i>Metallomics</i> , 2011, 3, 550.	1.0	16
31	Laser desorption and ionization time-of-flight versus matrix-assisted laser desorption and ionization time-of-flight mass spectrometry of Pt(ii) and Ru(iii) metal complexes. <i>Analytical Methods</i> , 2011, 3, 400-407.	1.3	16
32	Prooxidantâ€“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.	0.8	16
33	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.	2.0	15
34	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.	0.3	14
35	The thermal stability of the external invertase isoforms from <i>Saccharomyces cerevisiae</i> correlates with the surface charge density. <i>Biochimie</i> , 2012, 94, 510-515.	1.3	13
36	TiO ₂ nanocrystals â€“ 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.	1.7	13

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37	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.	1.0	13
38	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, 165-172.	1.1	12
39	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.	1.3	12
40	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.	1.5	12
41	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.	1.0	11
42	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.	1.0	10
43	Interaction of the [PtCl ₂ (DMSO) ₂] Complex with L-Cysteine. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2009, 64, 103-108.	0.6	10
44	Inhibitory effect of platinum and ruthenium bipyridyl complexes on porcine pancreatic phospholipase A2. <i>Metallomics</i> , 2011, 3, 1056.	1.0	10
45	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.	1.5	10
46	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.	1.2	9
47	Interactions of nitrogen-donor bio-molecules with dinuclear platinum(II) complexes. <i>Journal of Coordination Chemistry</i> , 2015, 68, 3148-3163.	0.8	9
48	Biological activity and binding properties of [Ru(II)(dcbpy) ₂ Cl ₂] complex to bovine serum albumin, phospholipase A2 and glutathione. <i>BioMetals</i> , 2016, 29, 921-933.	1.8	9
49	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.	1.1	9
50	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.	2.9	9
51	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.	0.4	8
52	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.	1.1	8
53	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.	0.4	7
54	Gender Differences in the Expression and Cellular Localization of Lipin 1 in the Hearts of Fructose-Fed Rats. <i>Lipids</i> , 2014, 49, 655-663.	0.7	7

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55	Kinetics and mechanism of substitution reactions of the new bimetallic $[\{PdCl(bipy)\}_2\{PtCl(bipy)\}_2]Cl(ClO_4)$ complex with important bio-molecules. <i>Polyhedron</i> , 2015, 101, 206-214.	1.0	6
56	SR-FTIR spectro-microscopic interaction study of biochemical changes in HeLa cells induced by Levan-C60, Pullulan-C60, and their cholesterol-derivatives. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2541-2549.	3.6	6
57	Lipid Status of A2780 Ovarian Cancer Cells after Treatment with Ruthenium Complex Modified with Carbon Dot Nanocarriers: A Multimodal SR-FTIR Spectroscopy and MALDI TOF Mass Spectrometry Study. <i>Cancers</i> , 2022, 14, 1182.	1.7	6
58	S, N-doped carbon dots-based cisplatin delivery system in adenocarcinoma cells: Spectroscopic and computational approach. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 226-237.	5.0	6
59	Pancreatic Phospholipase A ₂ - Mediated Enhancement of the Respiratory Burst Response of Human Neutrophils. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2001, 56, 1150-1156.	0.6	5
60	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.	2.3	5
61	Testing the photo-sensitive nanocomposite system for potential controlled metallo-drug delivery. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	5
62	Biocompatibility of TiO ₂ prolate nanospheroids as a potential photosensitizer in therapy of cancer. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	5
63	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, 32.	1.3	5
64	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.	0.4	5
65	Cross-Reactivity of the V3-Specific Antibodies with the Human C1q. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2001, 56, 1135-1143.	0.6	4
66	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, 1972-1986.	1.0	4
67	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.	1.7	4
68	Thermal denaturation of pepsin at acidic media: Using DSC, MALDI-TOF MS and PAGE techniques. <i>Thermochimica Acta</i> , 2013, 568, 165-170.	1.2	3
69	Controlled killing of human cervical cancer cells by combined action of blue light and C-doped TiO ₂ nanoparticles. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1087-1098.	1.6	3
70	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, 651-660.	2.5	2
71	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.	1.5	2
72	Sensitivity and Accuracy of Organic Matrix-Assisted Laser Desorption and Ionisation Mass Spectrometry of FeCl ₃ is Higher Than in Matrix-Free Approach. <i>European Journal of Mass Spectrometry</i> , 2013, 19, 77-89.	0.5	1

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73	Gold chloride cluster ions generated by vacuum laser ablation. Optical and Quantum Electronics, 2018, 50, 1.	1.5	1
74	Physico-chemical and mechanical properties of geopolymers/zircon composites. Science of Sintering, 2022, 54, 11-24.	0.5	1
75	Detection of Cadmium-related ions by MALDI TOF mass spectrometry correlates with physicochemical properties of Cadmium/matrix adducts. Polyhedron, 2021, 209, 115463.	1.0	0
76	Platinum (IV) Complexes, Inhibition of Porcine Pancreatic Phospholipase A2. , 2013, , 1698-1703.		0
77	Determination of isotopic distribution of lead by a matrix assisted laser desorption/ionization versus a laser desorption/ionization time of flight mass spectrometry. Hemijska Industrija, 2017, 71, 19-26.	0.3	0
78	Experimental design for optimizing MALDI-TOF-MS analysis of palladium complexes. Hemijska Industrija, 2017, 71, 281-288.	0.3	0
79	Potential of MALDI TOF mass spectrometry for detection and quantification of corticosterone in the blood of loggerhead sea turtles. International Journal of Mass Spectrometry, 2022, 473, 116796.	0.7	0