

Ksenija RadotiÄ

List of Publications by Year in descending order

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83
papers

1,931
citations

304743

22
h-index

276875

41
g-index

86
all docs

86
docs citations

86
times ranked

2709
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in peroxidase activity and isoenzymes in spruce needles after exposure to different concentrations of cadmium. <i>Environmental and Experimental Botany</i> , 2000, 44, 105-113.	4.2	161
2	Anti-cancer effects of cerium oxide nanoparticles and its intracellular redox activity. <i>Chemico-Biological Interactions</i> , 2015, 232, 85-93.	4.0	132
3	Atomic Force Microscopy Stiffness Tomography on Living <i>Arabidopsis thaliana</i> Cells Reveals the Mechanical Properties of Surface and Deep Cell-Wall Layers during Growth. <i>Biophysical Journal</i> , 2012, 103, 386-394.	0.5	119
4	Bacterial cellulose-lignin composite hydrogel as a promising agent in chronic wound healing. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 494-503.	7.5	115
5	Quantification of compression wood severity in tracheids of <i>Pinus radiata</i> D. Don using confocal fluorescence imaging and spectral deconvolution. <i>Journal of Structural Biology</i> , 2010, 169, 106-115.	2.8	92
6	Luminescent carbon nanoparticles: effects of chemical functionalization, and evaluation of Ag ⁺ sensing properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8342.	10.3	92
7	Component analysis of the fluorescence spectra of a lignin model compound. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2006, 83, 1-10.	3.8	85
8	Fingerprint imaging using N-doped carbon dots. <i>Carbon</i> , 2019, 144, 791-797.	10.3	64
9	Probing the lignin nanomechanical properties and lignin-lignin interactions using the atomic force microscopy. <i>Chemical Physics Letters</i> , 2001, 347, 41-45.	2.6	58
10	Determination of the size of quantum dots by fluorescence spectroscopy. <i>Analyst</i> , 2011, 136, 2391.	3.5	48
11	Anisotropy of cell wall polymers in branches of hardwood and softwood: a polarized FTIR study. <i>Cellulose</i> , 2011, 18, 1433-1440.	4.9	46
12	Lignin model compound in alginate hydrogel: a strong antimicrobial agent with high potential in wound treatment. <i>International Journal of Antimicrobial Agents</i> , 2016, 48, 732-735.	2.5	45
13	Visualization of artificial lignin supramolecular structures. <i>Scanning</i> , 2000, 22, 288-294.	1.5	42
14	Interaction of the CdSe quantum dots with plant cell walls. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 41-47.	5.0	40
15	Study of the lignin model compound supramolecular structure by combination of near-field scanning optical microscopy and atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 34, 33-40.	5.0	38
16	Fingerprint detection and using intercalated CdSe nanoparticles on non-porous surfaces. <i>Analytica Chimica Acta</i> , 2014, 812, 228-235.	5.4	35
17	Study of Self-Assembly of the Lignin Model Compound on Cellulose Model Substrate. <i>Macromolecular Bioscience</i> , 2003, 3, 100-106.	4.1	31
18	Photosynthesis Enhancement in Maize via Nontoxic Orange Carbon Dots. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5446-5451.	5.2	29

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19	New Insights into the Structural Organization of the Plant Polymer Lignin. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 215-229.	3.8	27
20	Deconvolution of fluorescence spectra: Contribution to the structural analysis of complex molecules. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 54, 188-192.	5.0	26
21	Tyramine modified alginates via periodate oxidation for peroxidase induced hydrogel formation and immobilization. <i>Reactive and Functional Polymers</i> , 2015, 93, 77-83.	4.1	26
22	P-doped carbon nano-powders for fingerprint imaging. <i>Talanta</i> , 2019, 194, 150-157.	5.5	26
23	Single yeast cell nanomotions correlate with cellular activity. <i>Science Advances</i> , 2020, 6, eaba3139.	10.3	25
24	A perspective view on the nanomotion detection of living organisms and its features. <i>Journal of Molecular Recognition</i> , 2020, 33, e2849.	2.1	23
25	A Comparative Study of Enzymatically and Photochemically Polymerized Artificial Lignin Supramolecular Structures Using Environmental Scanning Electron Microscopy. <i>Journal of Colloid and Interface Science</i> , 2000, 231, 190-194.	9.4	21
26	Application of Asymmetric Model in Analysis of Fluorescence Spectra of Biologically Important Molecules. <i>Journal of Fluorescence</i> , 2007, 17, 319-329.	2.5	21
27	Improved Covalent Immobilization of Horseradish Peroxidase on Macroporous Glycidyl Methacrylate-Based Copolymers. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1288-1301.	2.9	20
28	Thermo-responsive microgels based on encapsulated carbon quantum dots. <i>New Journal of Chemistry</i> , 2017, 41, 4835-4842.	2.8	19
29	Topographical characterization and surface force spectroscopy of the photochemical lignin model compound. <i>Biophysical Chemistry</i> , 2001, 94, 257-263.	2.8	18
30	Variability of antioxidant enzyme activity and isoenzyme profile in needles of Serbian spruce (<i>Picea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	18
31	Interaction of Carbohydrate Coated Cerium-Oxide Nanoparticles with Wheat and Pea: Stress Induction Potential and Effect on Development. <i>Plants</i> , 2019, 8, 478.	3.5	18
32	Phenolic Profiling of 12 Strawberry Cultivars Using Different Spectroscopic Methods. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4346-4354.	5.2	18
33	Antioxidative enzymes during germination of two lines of Serbian spruce [<i>Picea omorika</i> (Panc.) PurkynÄ]. <i>Archives of Biological Sciences</i> , 2007, 59, 209-216.	0.5	18
34	Structural Differences Between Lignin Model Polymers Synthesized from Various Monomers. <i>Journal of Polymers and the Environment</i> , 2012, 20, 607-617.	5.0	17
35	Study of Photochemical Reactions of Coniferyl Alcohol. II. Comparative Structural Study of a Photochemical and Enzymatic Polymer of Coniferyl Alcohol. <i>Photochemistry and Photobiology</i> , 1998, 68, 703-709.	2.5	16
36	Fluorescence spectroscopy and multispectral imaging for fingerprinting of aflatoxin-B1 contaminated (<i>Zea mays</i> L.) seeds: a preliminary study. <i>Scientific Reports</i> , 2022, 12, 4849.	3.3	15

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37	Phenolic profile, chromatic parameters and fluorescence of different woods used in Balkan cooperage. <i>Industrial Crops and Products</i> , 2019, 132, 156-167.	5.2	14
38	<i>In vitro</i> anti-hydroxyl radical activity of the fructooligosaccharides 1-kestose and nystose using spectroscopic and computational approaches. <i>International Journal of Food Science and Technology</i> , 2014, 49, 1500-1505.	2.7	13
39	Improving stability of cerium oxide nanoparticles by microbial polysaccharides coating. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 745-757.	0.8	13
40	Oxalate oxidase and non-enzymatic compounds of the antioxidative system in young Serbian spruce plants exposed to cadmium stress. <i>Archives of Biological Sciences</i> , 2008, 60, 67-76.	0.5	12
41	ZL-DHP lignin model compound at the air-water interface. <i>Biophysical Chemistry</i> , 2002, 99, 55-62.	2.8	11
42	Fluorescence and phosphorescence of tryptophan in peptides of different length and sequence. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 157, 120-128.	3.8	11
43	Tyramine-modified pectins via periodate oxidation for soybean hull peroxidase induced hydrogel formation and immobilization. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2281-2290.	3.6	11
44	Moderate hyperhomocysteinemia induced by short-term dietary methionine overload alters bone microarchitecture and collagen features during growth. <i>Life Sciences</i> , 2017, 191, 9-16.	4.3	10
45	Toxicity investigation of CeO ₂ nanoparticles coated with glucose and exopolysaccharides levan and pullulan on the bacterium <i>Vibrio fischeri</i> and aquatic organisms <i>Daphnia magna</i> and <i>Danio rerio</i> . <i>Aquatic Toxicology</i> , 2021, 236, 105867.	4.0	10
46	Antioxidant enzymes in the needles of different omorika lines. <i>Archives of Biological Sciences</i> , 2005, 57, 277-282.	0.5	10
47	ZnS:Mn nanoparticles functionalized by PAMAM-OH dendrimer based fluorescence ratiometric probe for cadmium. <i>Talanta</i> , 2015, 134, 317-324.	5.5	9
48	Mitochondrial activity detected by cantilever based sensor. <i>Mechanical Sciences</i> , 2017, 8, 23-28.	1.0	9
49	Multivariate Curve Resolution - Alternate Least Square Analysis of Excitation-Emission Matrices for Maize Flour Contaminated with Aflatoxin B1. <i>Journal of Fluorescence</i> , 2018, 28, 729-733.	2.5	8
50	Variability Estimation of the Protein and Phenol Total Content in Honey Using Front Face Fluorescence Spectroscopy Coupled with MCR-ALS Analysis. <i>Journal of Applied Spectroscopy</i> , 2019, 86, 256-263.	0.7	8
51	Variations in polyamine conjugates in maize (<i>Zea mays</i> L.) seeds contaminated with aflatoxin B1: a dose-response relationship. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 2905-2910.	3.5	8
52	Fluorescence-Detected Linear Dichroism of Wood Cell Walls in Juvenile Serbian Spruce: Estimation of Compression Wood Severity. <i>Microscopy and Microanalysis</i> , 2016, 22, 361-367.	0.4	7
53	Estimation of carbon dots amelioration of copper toxicity in maize studied by synchrotron radiation-FTIR. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111828.	5.0	7
54	Immobilization of chemically modified horse radish peroxidase within activated alginate beads. <i>Hemijaska Industrija</i> , 2014, 68, 117-122.	0.7	7

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55	Solvatochromism of symmetrical 2,6-distyrylpyridines. An experimental and theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 435-446.	3.9	6
56	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.	9.4	6
57	Analysis of static bending-induced compression wood formation in juvenile <i>Picea omorika</i> (Pančić) Purkyně. <i>Trees - Structure and Function</i> , 2015, 29, 1533-1543.	1.9	5
58	Peroxidase-Sensitive Tyramine Carboxymethyl Xylan Hydrogels for Enzyme Encapsulation. <i>Macromolecular Research</i> , 2019, 27, 764-771.	2.4	5
59	Cell wall response to UV radiation in needles of <i>Picea omorika</i> . <i>Plant Physiology and Biochemistry</i> , 2021, 161, 176-190.	5.8	5
60	Influence of silicon on polymerization process during lignin synthesis. Implications for cell wall properties. <i>International Journal of Biological Macromolecules</i> , 2022, 198, 168-174.	7.5	5
61	Changes in <i>Chenopodium rubrum</i> Seeds with Aging. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 505-508.	3.8	4
62	Cell Death Parameters as Revealed by Whole-Cell Patch-Clamp and Interval Weighted Spectra Averaging: Changes in Membrane Properties and Current Frequency of Cultured Mouse Microglial Cells Induced by Glutaraldehyde. <i>Journal of Membrane Biology</i> , 2015, 248, 117-123.	2.1	4
63	Parenchyma cell wall structure in twining stem of <i>Dioscorea balcanica</i> . <i>Cellulose</i> , 2017, 24, 4653-4669.	4.9	4
64	Automatic image processing morphometric method for the analysis of tracheid double wall thickness tested on juvenile <i>Picea omorika</i> trees exposed to static bending. <i>Trees - Structure and Function</i> , 2018, 32, 1347-1356.	1.9	4
65	Annual variation of proteins and phenols in honey of a bee society using fluorescence spectroscopy: a way to assess effects of antivarroa treatments on honey composition. <i>European Food Research and Technology</i> , 2020, 246, 1515-1518.	3.3	4
66	Multiple forms of superoxide dismutase in the apoplast and whole-needle extract of Serbian spruce [<i>Picea omorika</i> (Panc.) Purkyně]. <i>Archives of Biological Sciences</i> , 2006, 58, 211-214.	0.5	4
67	Detection of DNA mutations based on analysis of multiple wavelength excitation/emission fluorescence kinetics curves in real-time PCR. <i>Medical Hypotheses</i> , 2013, 80, 376-379.	1.5	3
68	Enhancement in statistical and image analysis for μ SXRF studies of elemental distribution and co-localization, using <i>Dioscorea balcanica</i> . <i>Journal of Synchrotron Radiation</i> , 2013, 20, 339-346.	2.4	3
69	In vitro Radioprotective Activity of the Bryozoan <i>Hyalinella punctata</i> . <i>Asian Journal of Chemistry</i> , 2013, 25, 4713-4714.	0.3	3
70	Relations of cell wall bound peroxidases, phenols and lignin in needles of Serbian spruce <i>Picea omorika</i> (Pančić) Purkyně in the natural habitat. <i>Biochemical Systematics and Ecology</i> , 2015, 59, 271-277.	1.3	3
71	Estimation of honey bee colony infection with <i>Nosema ceranae</i> and <i>Varroa destructor</i> using fluorescence spectroscopy in combination with differential scanning calorimetry of honey samples. <i>Journal of Apicultural Research</i> , 0, , 1-7.	1.5	3
72	Kinetic parameters for thermal inactivation of soluble peroxidase from needles of Serbian spruce <i>Picea omorika</i> (Pančić) Purkyně. <i>General Physiology and Biophysics</i> , 2009, 28, 78-85.	0.9	2

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73	Decomposition of Complex Fluorescence Spectra Containing Components with Close Emission Maxima Positions and Similar Quantum Yields. Application to Fluorescence Spectra of Proteins. <i>Journal of Fluorescence</i> , 2013, 23, 605-610.	2.5	2
74	Screening of semi-volatile compounds in plants treated with coated cerium oxide nanoparticles by comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2021, 44, 2260-2268.	2.5	2
75	The effect of pH on the activity of soluble peroxidase in needles of Serbian spruce (<i>Picea omorika</i>) Tj ETQq1 1 0.784314 rgBT /Overload 122-128.	0.9	1
76	Combining Electrophoretic and Fluorescence Method for Screening Fine Structural Variations Among Lignin Model Polymers Differing in Monomer Composition. <i>Journal of Polymers and the Environment</i> , 2015, 23, 235-241.	5.0	1
77	Using optical fibers to measure absorption in intact conifer leaves, relative numbers of chloroplasts, and pigment content. <i>Journal of Biological Physics</i> , 2020, 46, 33-43.	1.5	1
78	Study of Photochemical Reactions of Coniferyl Alcohol. II. Comparative Structural Study of a Photochemical and Enzymatic Polymer of Coniferyl Alcohol. <i>Photochemistry and Photobiology</i> , 1998, 68, 703.	2.5	1
79	Lignin and organic free radicals in maize (<i>Zea mays</i> L.) seeds in response to aflatoxin B 1 contamination. An optical and EPR spectroscopic study. <i>Journal of the Science of Food and Agriculture</i> , 2021, , .	3.5	1
80	KINETIC STUDY OF STRESS-INDUCED LUMINESCENCE FROM DIFFERENT TISSUES. <i>Photochemistry and Photobiology</i> , 1992, 56, 83-88.	2.5	0
81	Phosphorus homeostasis in <i>Populus alba</i> L. under excess phosphate conditions, assessed by ³¹ P nuclear magnetic resonance spectroscopy and X-ray microfluorescence. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3320-3328.	5.3	0
82	Differential Polarization Imaging of Plant Cells. Mapping the Anisotropy of Cell Walls and Chloroplasts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7661.	4.1	0
83	Toxicity of nickel and cadmium in spruce seedlings: Effect of separated and combined treatments on peroxidase and superoxide-dismutase activity. <i>Journal of Medical Biochemistry</i> , 2003, 22, 41-52.	0.1	0