Ana D PopoviÄ-BijeliÄ

List of Publications by Year
in descending order

47 papers	922 citations	471509 17 h-index	477307 29 g-index
47 all docs	47 docs citations	47 times ranked	1589 citing authors

#	Article	IF	Citations
1	Analysis of Fixed-Dose Combination of Three Antihypertensive Drugs by a Green and Quality by Design Approach. Journal of Chromatographic Science, 2023, 61, 256-268.	1.4	0
2	The Release of a Highly Cytotoxic Paullone Bearing a TEMPO Free Radical from the HSA Hydrogel: An EPR Spectroscopic Characterization. Pharmaceutics, 2022, 14, 1174.	4.5	2
3	In Vivo/Ex Vivo EPR Investigation of the Brain Redox Status and Blood-Brain Barrier Integrity in the 5xFAD Mouse Model of Alzheimer's Disease. Current Alzheimer Research, 2021, 18, 25-34.	1.4	3
4	Coumarin-Based Triapine Derivatives and Their Copper(II) Complexes: Synthesis, Cytotoxicity and mR2 RNR Inhibition Activity. Biomolecules, 2021, 11, 862.	4.0	8
5	A novel methodology for hydrogel water content determination by EPR: The basis for real-time monitoring of controlled drug release and hydrogel swelling and degradation. Polymer Testing, 2021, 98, 107187.	4.8	8
6	Triapine Analogues and Their Copper(II) Complexes: Synthesis, Characterization, Solution Speciation, Redox Activity, Cytotoxicity, and mR2 RNR Inhibition. Inorganic Chemistry, 2021, 60, 11297-11319.	4.0	10
7	Facile Synthesis of L-Cysteine Functionalized Graphene Quantum Dots as a Bioimaging and Photosensitive Agent. Nanomaterials, 2021, 11, 1879.	4.1	12
8	Magnetically induced controlled release from glucose-modified liposomes loaded with Fe3O4 nanoparticles. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	1
9	Spin-labeled hydrogels for cell viability assessment by EPR. Free Radical Biology and Medicine, 2021, 177, S76.	2.9	1
10	Triapine Derivatives Act as Copper Delivery Vehicles to Induce Deadly Metal Overload in Cancer Cells. Biomolecules, 2020, 10, 1336.	4.0	12
11	New Water-Soluble Copper(II) Complexes with Morpholineâ€“Thiosemicarbazone Hybrids: Insights into the Anticancer and Antibacterial Mode of Action. Journal of Medicinal Chemistry, 2019, 62, 512-530.	6.4	91
12	Changes of the peripheral blood mononuclear cells membrane fluidity from type 1 Gaucher disease patients: an electron paramagnetic resonance study. Biological Chemistry, 2018, 399, 447-452.	2.5	5
13	Coordinate and redox interactions of epinephrine with ferric and ferrous iron at physiological pH. Scientific Reports, 2018, 8, 3530.	3.3	13
14	Coordination and redox interactions of Î²-lactam antibiotics with Cu2+ in physiological settings and the impact on antibacterial activity. Free Radical Biology and Medicine, 2018, 129, 279-285.	2.9	11
15	Anti-cancer effects of wedelolactone: interactions with copper and subcellular localization. Metallomics, 2018, 10, 1524-1531.	2.4	5
16	Investigation of the Halogenateâ€“Hydrogen Peroxide Reactions Using the Electron Paramagnetic Resonance Spin Trapping Technique. Journal of Physical Chemistry A, 2017, 121, 3207-3212.	2.5	8
17	In vivo EPR pharmacokinetic evaluation of the redox status and the blood brain barrier permeability in the SOD1 G93A ALS rat model. Free Radical Biology and Medicine, 2017, 108, 258-269.	2.9	12
18	Mechanisms of redox interactions of bilirubin with copper and the effects of penicillamine. Chemico-Biological Interactions, 2017, 278, 129-134.	4.0	4

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19	Maleimido-proxyl as an EPR spin label for the evaluation of conformational changes of albumin. European Biophysics Journal, 2017, 46, 773-787.	2.2	15
20	Investigation of the binding of cis/trans-[MCl4(1H-indazole)(NO)]â^' (M = Ru, Os) complexes to human serum albumin. Journal of Inorganic Biochemistry, 2016, 159, 37-44.	3.5	12
21	Iron-sulfur cluster damage by the superoxide radical in neural tissues of the SOD1G93A ALS rat model. Free Radical Biology and Medicine, 2016, 96, 313-322.	2.9	20
22	Flavonolignan 2,3-dehydroderivatives: Preparation, antiradical and cytoprotective activity. Free Radical Biology and Medicine, 2016, 90, 114-125.	2.9	72
23	Photo-redox reactions of indole and ferric iron in water. Applied Catalysis B: Environmental, 2016, 185, 174-180.	20.2	6
24	Formation of stable radicals in catechin/nitrous acid systems: Participation of dinitrosocatechin. Food Chemistry, 2016, 194, 1116-1122.	8.2	10
25	Sterilization of bacteria suspensions and identification of radicals deposited during plasma treatment. Open Chemistry, 2015, 13, .	1.9	21
26	Reactions of superoxide dismutases with HSâ^'/H2S and superoxide radical anion: An inÂvitro EPR study. Nitric Oxide - Biology and Chemistry, 2015, 51, 19-23.	2.7	7
27	Effects of Terminal Dimethylation and Metal Coordination of Proline-2-formylpyridine Thiosemicarbazone Hybrids on Lipophilicity, Antiproliferative Activity, and hR2 RNR Inhibition. Inorganic Chemistry, 2014, 53, 12595-12609.	4.0	24
28	Electronic Structural Flexibility of Heterobimetallic Mn/Fe Cofactors: R2lox and R2c Proteins. Journal of the American Chemical Society, 2014, 136, 13399-13409.	13.7	37
29	Binding of Doxyl Stearic Spin Labels to Human Serum Albumin: An EPR Study. Journal of Physical Chemistry B, 2014, 118, 10898-10905.	2.6	20
30	Energy requirements of the reactions of kaempferol and selected radical species in different media: towards the prediction of the possible radical scavenging mechanisms. Structural Chemistry, 2014, 25, 1795-1804.	2.0	29
31	A highly cytotoxic modified paullone ligand bearing a TEMPO free-radical unit and its copper(ii) complex as potential hR2 RNR inhibitors. Chemical Communications, 2013, 49, 10007.	4.1	18
32	Radicals in the Brayâ€“Liebhafsky Oscillatory Reaction. Journal of Physical Chemistry A, 2013, 117, 3292-3295.	2.5	28
33	Rapid X-ray Photoreduction of Dimetal-Oxygen Cofactors in Ribonucleotide Reductase. Journal of Biological Chemistry, 2013, 288, 9648-9661.	3.4	30
34	Raman microspectroscopy as a biomarking tool for in vitro diagnosis of cancer: a feasibility study. Croatian Medical Journal, 2012, 53, 551-551.	0.7	10
35	A joint application of spectroscopic, electrochemical and theoretical approaches in evaluation of the radical scavenging activity of 3-OH flavones and their iron complexes towards different radical species. Dalton Transactions, 2012, 41, 7295.	3.3	21
36	The Manganese Ion of the Heterodinuclear Mn/Fe Cofactor in Chlamydia trachomatis Ribonucleotide Reductase R2c Is Located at Metal Position 1. Journal of the American Chemical Society, 2012, 134, 123-125.	13.7	30

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37	High-valent [MnFe] and [FeFe] cofactors in ribonucleotide reductases. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 430-444.	1.0	14
38	Oxygen Centered Radicals in Iodine Chemical Oscillators. Journal of Physical Chemistry A, 2011, 115, 7955-7958.	2.5	28
39	A Potential Source of Free Radicals in Iodine-Based Chemical Oscillators. Journal of Physical Chemistry A, 2011, 115, 2247-2249.	2.5	14
40	Ribonucleotide reductase inhibition by metal complexes of Triapine (3-aminopyridine-2-carboxaldehyde) Tj ETQq0 0 0 rgBT /Overlock 10 Biochemistry, 2011, 105, 1422-1431.	3.5	105
41	Inhibition of chlamydial class Ic ribonucleotide reductase by Câ€terminal peptides from protein R2. Journal of Peptide Science, 2011, 17, 756-762.	1.4	1
42	Ribonucleotide Reductase as One Important Target of [Tris(1,10- phenanthroline)lanthanum(III)] Trithiocyanate (KP772). Current Cancer Drug Targets, 2009, 9, 595-607.	1.6	21
43	Metal Binding and Activity of Ribonucleotide Reductase Protein R2 Mutants: Conditions for Formation of the Mixed Manganeseâ^'Iron Cofactor. Biochemistry, 2009, 48, 6532-6539.	2.5	12
44	Temperature dependence of oxygen evolution through catalase-like activity of horseradish peroxidase. Russian Journal of Physical Chemistry A, 2007, 81, 1371-1373.	0.6	2
45	Numerically Simulated pH-Induced Reactivation of Catalytic Activity of Horseradish Peroxidase. Annals of the New York Academy of Sciences, 2005, 1048, 457-460.	3.8	2
46	Multi-Field Surface Electrode for Selective Electrical Stimulation. Artificial Organs, 2005, 29, 448-452.	1.9	88
47	E Actitrode: The new selective stimulation interface for functional movements in hemiplegics patients. Serbian Journal of Electrical Engineering, 2004, 1, 21-28.	0.4	19