

Ivan SpasojeviÄ

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

2,335
citations

218677

26
h-index

233421

45
g-index

83
all docs

83
docs citations

83
times ranked

4337
citing authors

#	ARTICLE	IF	CITATIONS
1	A mouse-human phase 1 co-clinical trial of a protease-activated fluorescent probe for imaging cancer. <i>Science Translational Medicine</i> , 2016, 8, 320ra4.	12.4	224
2	A paclitaxel-loaded recombinant polypeptide nanoparticle outperforms Abraxane in multiple murine cancer models. <i>Nature Communications</i> , 2015, 6, 7939.	12.8	173
3	Manganese(III) Biliverdin IX Dimethyl Ester: A Powerful Catalytic Scavenger of Superoxide Employing the Mn(III)/Mn(IV) Redox Couple. <i>Inorganic Chemistry</i> , 2001, 40, 726-739.	4.0	110
4	Mn Porphyrin-Based Redox-Active Drugs: Differential Effects as Cancer Therapeutics and Protectors of Normal Tissue Against Oxidative Injury. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1691-1724.	5.4	102
5	Multiple Sclerosis: Molecular Mechanisms and Therapeutic Opportunities. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 2286-2334.	5.4	96
6	Spin-trapping of oxygen free radicals in chemical and biological systems: New traps, radicals and possibilities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 1354-1366.	3.9	91
7	Mitochondria-Targeted Antioxidants: Future Perspectives in Kidney Ischemia Reperfusion Injury. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-12.	4.0	90
8	A comprehensive evaluation of catalase-like activity of different classes of redox-active therapeutics. <i>Free Radical Biology and Medicine</i> , 2015, 86, 308-321.	2.9	71
9	Effects of 2 years of caloric restriction on oxidative status assessed by urinary F ₂ -isoprostanes: The CALERIE 2 randomized clinical trial. <i>Aging Cell</i> , 2018, 17, e12719.	6.7	65
10	Structure-activity studies of Wnt/ β -catenin inhibition in the Niclosamide chemotype: Identification of derivatives with improved drug exposure. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5829-5838.	3.0	60
11	A High-Throughput In Vitro Drug Screen in a Genetically Engineered Mouse Model of Diffuse Intrinsic Pontine Glioma Identifies BMS-754807 as a Promising Therapeutic Agent. <i>PLoS ONE</i> , 2015, 10, e0118926.	2.5	57
12	Anticancer therapeutic potential of Mn porphyrin/ascorbate system. <i>Free Radical Biology and Medicine</i> , 2015, 89, 1231-1247.	2.9	56
13	Relevance of the capacity of phosphorylated fructose to scavenge the hydroxyl radical. <i>Carbohydrate Research</i> , 2009, 344, 80-84.	2.3	52
14	Free radicals and antioxidants at a glance using EPR spectroscopy. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2011, 48, 114-142.	6.1	50
15	Extracellular iron diminishes anticancer effects of vitamin C: An in vitro study. <i>Scientific Reports</i> , 2014, 4, 5955.	3.3	50
16	A comparative study of antioxidative activities of cell-wall polysaccharides. <i>Carbohydrate Research</i> , 2011, 346, 2255-2259.	2.3	44
17	The Effect of Alcohols on Red Blood Cell Mechanical Properties and Membrane Fluidity Depends on Their Molecular Size. <i>PLoS ONE</i> , 2013, 8, e76579.	2.5	42
18	Mutant IDH1 Disrupts the Mouse Subventricular Zone and Alters Brain Tumor Progression. <i>Molecular Cancer Research</i> , 2017, 15, 507-520.	3.4	41

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19	A Testosterone Metabolite 19-Hydroxyandrostenedione Induces Neuroendocrine Trans-Differentiation of Prostate Cancer Cells via an Ectopic Olfactory Receptor. <i>Frontiers in Oncology</i> , 2018, 8, 162.	2.8	41
20	A Comparative Analysis of Multiple Sclerosisâ€œRelevant Anti-Inflammatory Properties of Ethyl Pyruvate and Dimethyl Fumarate. <i>Journal of Immunology</i> , 2015, 194, 2493-2503.	0.8	38
21	Efficacy of osimertinib against EGFRvIII+ glioblastoma. <i>Oncotarget</i> , 2020, 11, 2074-2082.	1.8	37
22	Adaptive Evolution of the GDH2 Allosteric Domain Promotes Gliomagenesis by Resolving IDH1R132H-Induced Metabolic Liabilities. <i>Cancer Research</i> , 2018, 78, 36-50.	0.9	35
23	Antioxidative Activity of Colostrum and Human Milk. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2016, 62, 901-906.	1.8	34
24	CNS bioavailability and radiation protection of normal hippocampal neurogenesis by a lipophilic Mn porphyrin-based superoxide dismutase mimic, MnTnBuOE-2-PyP5+. <i>Redox Biology</i> , 2017, 12, 864-871.	9.0	32
25	Radiation-Mediated Tumor Growth Inhibition Is Significantly Enhanced with Redox-Active Compounds That Cycle with Ascorbate. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1196-1214.	5.4	30
26	H2O2-Driven Anticancer Activity of Mn Porphyrins and the Underlying Molecular Pathways. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-23.	4.0	30
27	Bioavailability and catalytic properties of copper and iron for Fenton chemistry in human cerebrospinal fluid. <i>Redox Report</i> , 2010, 15, 29-35.	4.5	27
28	Inappropriately chelated iron in the cerebrospinal fluid of amyotrophic lateral sclerosis patients. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2012, 13, 357-362.	2.1	26
29	Wedelolactone Acts as Proteasome Inhibitor in Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2017, 18, 729.	4.1	25
30	Hippocampal antioxidative system in mesial temporal lobe epilepsy. <i>Epilepsia</i> , 2015, 56, 789-799.	5.1	24
31	Increasing O-GlcNAcylation is neuroprotective in young and aged brains after ischemic stroke. <i>Experimental Neurology</i> , 2021, 339, 113646.	4.1	24
32	Fluctuating vs. Continuous Exposure to H2O2: The Effects on Mitochondrial Membrane Potential, Intracellular Calcium, and NF- κ B in Astroglia. <i>PLoS ONE</i> , 2013, 8, e76383.	2.5	21
33	Different roles of radical scavengers â€œascorbate and urate in the cerebrospinal fluid of amyotrophic lateral sclerosis patients. <i>Redox Report</i> , 2010, 15, 81-86.	4.5	19
34	Relevance of the ability of fructose 1,6-bis(phosphate) to sequester ferrous but not ferric ions. <i>Carbohydrate Research</i> , 2011, 346, 416-420.	2.3	18
35	Differences in direct pharmacologic effects and antioxidative properties of mature breast milk and infant formulas. <i>Nutrition</i> , 2013, 29, 431-435.	2.4	18
36	Challenges encountered during development of Mn porphyrin-based, potent redox-active drug and superoxide dismutase mimic, MnTnBuOE-2-PyP5+, and its alkoxyalkyl analogues. <i>Journal of Inorganic Biochemistry</i> , 2017, 169, 50-60.	3.5	18

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37	UV-irradiation provokes generation of superoxide on cell wall polygalacturonic acid. <i>Physiologia Plantarum</i> , 2012, , n/a-n/a.	5.2	18
38	Antioxidative Defense Enzymes in Placenta Protect Placenta and Fetus in Inherited Thrombophilia from Hydrogen Peroxide. <i>Oxidative Medicine and Cellular Longevity</i> , 2009, 2, 14-18.	4.0	17
39	The Relationship of Physicochemical Properties to the Antioxidative Activity of Free Amino Acids in Fenton System. <i>Environmental Science & Technology</i> , 2015, 49, 4245-4254.	10.0	17
40	Safety and efficacy of intravesical chemotherapy and hyperthermia in the bladder: results of a porcine study. <i>International Journal of Hyperthermia</i> , 2020, 37, 854-860.	2.5	17
41	Disrupting the vicious cycle created by NOX activation in sickle erythrocytes exposed to hypoxia/reoxygenation prevents adhesion and vasoocclusion. <i>Redox Biology</i> , 2019, 25, 101097.	9.0	16
42	Electron Paramagnetic Resonance - A Powerful Tool of Medical Biochemistry in Discovering Mechanisms of Disease and Treatment Prospects. <i>Journal of Medical Biochemistry</i> , 2010, 29, 175-188.	1.7	15
43	Comparison of the effects of methanethiol and sodium sulphide on uterine contractile activity. <i>Pharmacological Reports</i> , 2014, 66, 373-379.	3.3	15
44	Apple pectin-derived oligosaccharides produce carbon dioxide radical anion in Fenton reaction and prevent growth of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Food Research International</i> , 2017, 100, 132-136.	6.2	13
45	Coordinate and redox interactions of epinephrine with ferric and ferrous iron at physiological pH. <i>Scientific Reports</i> , 2018, 8, 3530.	3.3	13
46	Hydrogen Peroxide in Adaptation. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-4.	4.0	12
47	The reaction of methionine with hydroxyl radical: reactive intermediates and methanethiol production. <i>Amino Acids</i> , 2012, 42, 2439-2445.	2.7	12
48	Coordination and redox interactions of β -lactam antibiotics with Cu^{2+} in physiological settings and the impact on antibacterial activity. <i>Free Radical Biology and Medicine</i> , 2018, 129, 279-285.	2.9	11
49	Metals and electrolytes in sclerotic hippocampi in patients with drug-resistant mesial temporal lobe epilepsy. <i>Epilepsia</i> , 2014, 55, e34-e37.	5.1	10
50	The role of autophagy and lipolysis in survival of astrocytes under nutrient deprivation. <i>Neuroscience Letters</i> , 2015, 595, 128-133.	2.1	10
51	What if cell culture media do not mimic <i>in vivo</i> redox settings?. <i>Redox Report</i> , 2016, 21, 127-129.	4.5	10
52	Urinary F ₂ -isoprostanes and the risk of hypertension. <i>Annals of Epidemiology</i> , 2017, 27, 391-396.	1.9	10
53	Identification of DK419, a potent inhibitor of Wnt/ β -catenin signaling and colorectal cancer growth. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5435-5442.	3.0	10
54	Biliverdin-copper complex at physiological pH. <i>Dalton Transactions</i> , 2019, 48, 6061-6070.	3.3	10

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55	ENTPD1 (CD39) Expression Inhibits UVR-Induced DNA Damage Repair through Purinergic Signaling and Is Associated with Metastasis in Human Cutaneous Squamous Cell Carcinoma. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2509-2520.	0.7	10
56	UV-irradiation provokes generation of superoxide on cell wall polygalacturonic acid. <i>Physiologia Plantarum</i> , 2013, 148, 574-581.	5.2	10
57	Fe Porphyrin-Based SOD Mimic and Redox-Active Compound, (OH)FeTnHex-2-PyP4+, in a Rodent Ischemic Stroke (MCAO) Model: Efficacy and Pharmacokinetics as Compared to Its Mn Analogue, (H2O)MnTnHex-2-PyP5+. <i>Antioxidants</i> , 2020, 9, 467.	5.1	8
58	Mechanisms of detoxification of high copper concentrations by the microalga <i>Chlorella sorokiniana</i> . <i>Biochemical Journal</i> , 2020, 477, 3729-3741.	3.7	8
59	The potential physiological implications of polygalacturonic acid-mediated production of superoxide. <i>Plant Signaling and Behavior</i> , 2010, 5, 1525-1529.	2.4	7
60	Urinary F2-Isoprostanes and Metabolic Markers of Fat Oxidation. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-5.	4.0	7
61	Reactions of superoxide dismutases with HS ⁻ /H ₂ S and superoxide radical anion: An <i>in vitro</i> EPR study. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 51, 19-23.	2.7	7
62	Can Oxidation/Reduction Potential of Cerebrospinal Fluid Be a Monitoring Biomarker in Amyotrophic Lateral Sclerosis?. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1570-1575.	5.4	7
63	Antioxidative system in the erythrocytes of preterm neonates with sepsis: the effects of vitamin E supplementation. <i>Annals of Clinical Biochemistry</i> , 2014, 51, 550-556.	1.6	6
64	Anti-cancer effects of wedelolactone: interactions with copper and subcellular localization. <i>Metallomics</i> , 2018, 10, 1524-1531.	2.4	5
65	The conformation of epinephrine in polar solvents: an NMR study. <i>Structural Chemistry</i> , 2018, 29, 1533-1541.	2.0	5
66	The effects of ionizing radiation on the structure and antioxidative and metal-binding capacity of the cell wall of microalga <i>Chlorella sorokiniana</i> . <i>Chemosphere</i> , 2020, 260, 127553.	8.2	5
67	A Redoxable Mn Porphyrin, MnTnBuOE-2-PyP5+, Synergizes with Carboplatin in Treatment of Chemoresistant Ovarian Cell Line. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-16.	4.0	5
68	Comparative analysis of antioxidative systems in malignant and benign brain tumours. <i>Redox Report</i> , 2015, 20, 69-74.	4.5	4
69	A method for in-gel fluorescent visualization of proteins after native and sodium dodecyl sulfate polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2015, 480, 6-10.	2.4	4
70	Opinion on Schmidt et al.. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 518-524.	5.4	4
71	Metal maps of sclerotic hippocampi of patients with mesial temporal lobe epilepsy. <i>Metallomics</i> , 2017, 9, 141-148.	2.4	4
72	Mechanisms of redox interactions of bilirubin with copper and the effects of penicillamine. <i>Chemico-Biological Interactions</i> , 2017, 278, 129-134.	4.0	4

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73	Genetically Engineered Nanoparticles of Asymmetric Triblock Polypeptide with a Platinum(IV) Cargo Outperforms a Platinum(II) Analog and Free Drug in a Murine Cancer Model. <i>Nano Letters</i> , 2022, 22, 5898-5908.	9.1	4
74	Ante- and postpartum redox status of blood in women with inherited thrombophilia treated with heparin. <i>Thrombosis Research</i> , 2012, 130, 826-829.	1.7	3
75	Oxidative status of maternal blood in pregnancies burdened by inherited thrombophilias. <i>PLoS ONE</i> , 2020, 15, e0234253.	2.5	3
76	Regional distribution of cytochrome c oxidase activity and copper in sclerotic hippocampi of epilepsy patients. <i>Brain and Behavior</i> , 2021, 11, e01986.	2.2	3
77	Converting low dose radiation to redox signaling. <i>Plant Signaling and Behavior</i> , 2013, 8, e23151.	2.4	2
78	The conformation of biliverdin in dimethyl sulfoxide: implications for the coordination with copper. <i>Structural Chemistry</i> , 2019, 30, 2159-2166.	2.0	1
79	Ferrous iron binding to epinephrine promotes the oxidation of iron and impedes activation of adrenergic receptors. <i>Free Radical Biology and Medicine</i> , 2020, 148, 123-127.	2.9	1
80	A Pilot Study of Associations Between Visceral Fat, IL-6, and Urinary F2-Isoprostanes in Older Adults Exposed to a Diet Intervention. <i>Current Developments in Nutrition</i> , 2021, 5, nzab082.	0.3	1
81	A One-Step Staining Protocol for In-Gel Fluorescent Visualization of Proteins. <i>Methods in Molecular Biology</i> , 2018, 1853, 149-158.	0.9	0
82	25 years of development of Mn porphyrins " from mimics of superoxide dismutase enzymes to thiol signaling to clinical trials: The story of our life in the USA. , 2021, , 197-206.		0
83	Integrative concept of homeostasis: translating physiology into medicine. <i>F1000Research</i> , 0, 3, 299.	1.6	0