Magdalena Majekova

List of Publications by Year
in descending order

43 papers	1,038 citations	567281 15 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	1501 citing authors

#	Article	IF	Citations
1	Natural and synthetic antioxidants: An updated overview. Free Radical Research, 2010, 44, 1216-1262.	3.3	229
2	Antiradical and antioxidant activities of alkaloids isolated from Mahonia aquifolium. Structural aspects. Bioorganic and Medicinal Chemistry, 2004, 12, 4709-4715.	3.0	148
3	Carboxymethylated pyridoindole antioxidants as aldose reductase inhibitors: Synthesis, activity, partitioning, and molecular modeling. Bioorganic and Medicinal Chemistry, 2008, 16, 4908-4920.	3.0	63
4	Key Targets for Multi-Target Ligands Designed to Combat Neurodegeneration. Frontiers in Neuroscience, 2016, 10, 375.	2.8	55
5	Oxidation of liposomal membrane suppressed by flavonoids: Quantitative structureâ€“activity relationship. Bioorganic and Medicinal Chemistry, 2005, 13, 6477-6484.	3.0	51
6	Identification of Novel Aldose Reductase Inhibitors Based on Carboxymethylated Mercaptotriazinoindole Scaffold. Journal of Medicinal Chemistry, 2015, 58, 2649-2657.	6.4	42
7	The combined luminol/isoluminol chemiluminescence method for differentiating between extracellular and intracellular oxidant production by neutrophils. Redox Report, 2006, 11, 110-116.	4.5	37
8	2-Chloro-1,4-naphthoquinone derivative of quercetin as an inhibitor of aldose reductase and anti-inflammatory agent. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 107-113.	5.2	37
9	Development of the New Group of Indole-Derived Neuroprotective Drugs Affecting Oxidative Stress. Cellular and Molecular Neurobiology, 2006, 26, 1493-1502.	3.3	31
10	Structural aspects of antioxidant activity of substituted pyridoindoles. Redox Report, 2002, 7, 207-214.	4.5	29
11	Free Radical Scavenging and Antioxidant Activities of Substituted Hexahydropyridoindoles. Quantitative Structureâˆ’Activity Relationships. Journal of Medicinal Chemistry, 2006, 49, 2543-2548.	6.4	25
12	The extended polarizable continuum model for calculation of solvent effects. Computational and Theoretical Chemistry, 1988, 179, 353-366.	1.5	23
13	Development of Novel Oxotriazinoindole Inhibitors of Aldose Reductase: Isosteric Sulfur/Oxygen Replacement in the Thioxotriazinoindole Cemtirestat Markedly Improved Inhibition Selectivity. Journal of Medicinal Chemistry, 2020, 63, 369-381.	6.4	20
14	Polyphenol fatty acid esters as serine protease inhibitors: a quantum-chemical QSAR analysis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, 27, 800-809.	5.2	18
15	Novel quercetin derivatives in treatment of peroxynitrite-oxidized SERCA1. Molecular and Cellular Biochemistry, 2014, 386, 1-14.	3.1	18
16	Approximate methods for solvent effects calculations on biomolecules. Computational and Theoretical Chemistry, 1989, 183, 403-419.	1.5	14
17	On the interconversion energy barriers obtained for atropisomers of some polychlorinated biphenyls by AM1 semiempirical quantum chemistry method and gas chromatography on a modified cyclodextrin stationary phase. Fresenius' Journal of Analytical Chemistry, 1995, 352, 696-698.	1.5	14
18	Antioxidant action of 3-mercapto-5<i>H</i>-1,2,4-triazino[5,6-<i>b</i>]indole-5-acetic acid, an efficient aldose reductase inhibitor, in a 1,1â€²-diphenyl-2-picrylhydrazyl assay and in the cellular system of isolated erythrocytes exposed to<i>tert</i>-butyl hydroperoxide. Redox Report, 2015, 20, 282-288.	4.5	14

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19	Structure optimization of tetrahydropyridoindole-based aldose reductase inhibitors improved their efficacy and selectivity. Bioorganic and Medicinal Chemistry, 2017, 25, 6353-6360.	3.0	14
20	Chalcones and their pyrazine analogs: synthesis, inhibition of aldose reductase, antioxidant activity, and molecular docking study. Monatshefte FÃ¼r Chemie, 2018, 149, 921-929.	1.8	13
21	Inhibition of the sarco/endoplasmic reticulum Ca2+-ATPase (SERCA1) by rutin derivatives. Journal of Muscle Research and Cell Motility, 2015, 36, 183-194.	2.0	12
22	(4-Oxo-2-thioxothiazolidin-3-yl)acetic acids as potent and selective aldose reductase inhibitors. Chemico-Biological Interactions, 2020, 332, 109286.	4.0	12
23	Electrophysiology and Behavioral Assessment of the New Molecule SMe1EC2M3 as a Representative of the Future Class of Triple Reuptake Inhibitors. Molecules, 2019, 24, 4218.	3.8	11
24	Substituted derivatives of indole acetic acid as aldose reductase inhibitors withâ€¯antioxidant activity: structure-activity relationship. General Physiology and Biophysics, 2012, 30, 342-349.	0.9	10
25	Development of Novel Indole-Based Bifunctional Aldose Reductase Inhibitors/Antioxidants as Promising Drugs for the Treatment of Diabetic Complications. Molecules, 2021, 26, 2867.	3.8	10
26	Protection or cytotoxicity mediated by aâ€¯novel quinonoid-polyphenol compound?. General Physiology and Biophysics, 2015, 34, 51-64.	0.9	9
27	Synthesis and characterization of new inhibitors of cholinesterases based on N-phenylcarbamates: In vitro study of inhibitory effect, type of inhibition, lipophilicity and molecular docking. Bioorganic Chemistry, 2018, 78, 280-289.	4.1	8
28	Synthesis, biological evaluation, and molecular modeling of nitrileâ€containing compounds: Exploring multiple activities as antiâ€Alzheimer agents. Drug Development Research, 2020, 81, 215-231.	2.9	8
29	[5-(Benzyloxy)-1H-indol-1-yl]acetic acid, an aldose reductase inhibitor and PPARÎ³ ligand. Acta Biochimica Polonica, 2015, 62, 523-528.	0.5	7
30	Rutin stimulates sarcoplasmic reticulum Ca2+-ATPase activity (SERCA1) and protects SERCA1 from peroxynitrite mediated injury. Molecular and Cellular Biochemistry, 2015, 402, 51-62.	3.1	7
31	Ligand-based drug design of novel aldose reductase inhibitors. Future Medicinal Chemistry, 2018, 10, 2493-2496.	2.3	6
32	Does Inhibition of Aldose Reductase Contribute to the Anti-Inflammatory Action of Setipiprant?. Physiological Research, 2017, 66, 687-693.	0.9	6
33	Antiradical effects of antihistamines in human blood. Structure-activity relationship.. Inflammation Research, 2006, 55, S85-S86.	4.0	5
34	Electrochemical behavior of sarco/endoplasmic reticulum Ca-ATPase in response to carbonylation processes. Journal of Electroanalytical Chemistry, 2018, 812, 258-264.	3.8	5
35	Dysfunction of SERCA pumps as novel mechanism of methylglyoxal cytotoxicity. Cell Calcium, 2018, 74, 112-122.	2.4	5
36	Phenolic Compounds from <i>Morus nigra</i> Regulate Viability and Apoptosis of Pancreatic Î²-Cells Possibly via SERCA Activity. ACS Medicinal Chemistry Letters, 2020, 11, 1006-1013.	2.8	5

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37	Substituted Pyridoindoles as Biological Antioxidants: Drug Design, Chemical Synthesis, and Biological Activity. Methods in Molecular Biology, 2015, 1208, 313-327.	0.9	5
38	Novel Dibenzothiepins with Antibiofilm Activity Demonstrated by Microbiological Assays and Molecular Modeling. Current Organic Chemistry, 2013, 17, 113-124.	1.6	4
39	QSARand Mechanistic studies on the genotoxic compounds including environmental effects. International Journal of Quantum Chemistry, 1989, 35, 153-165.	2.0	3
40	Structural Changes of Sarco/Endoplasmic Reticulum Ca2+-ATPase Induced by Rutin Arachidonate: A Molecular Dynamics Study. Biomolecules, 2020, 10, 214.	4.0	3
41	Skin Permeation of Acyl Derivatives of Stobadine. Drug Delivery, 2006, 13, 51-54.	5.7	2
42	Novel quercetin derivatives in treatment of peroxynitrite-oxidized calcium pump. Free Radical Biology and Medicine, 2013, 65, S34.	2.9	0
43	2-Chloro-1,4-naphthoquinone derivative of quercetin as an efficient inhibitor of AKR1B1 and AKR1B10. Implications for diabetic complications, inflammatory disorders and cancer. Free Radical Biology and Medicine, 2013, 65, S50.	2.9	0