Premysl Mladenka

List of Publications by Citations

81 papers	1,515 citations	21 h-index	35 g-index
95 ext. papers	1,957 ext. citations	5.1 avg, IF	4.64 L-index

#	Paper	IF	Citations
81	Cardiovascular effects of flavonoids are not caused only by direct antioxidant activity. *Free Radical Biology and Medicine*, **2010**, 49, 963-75	7.8	166
80	In vitro analysis of iron chelating activity of flavonoids. *Journal of Inorganic Biochemistry*, **2011**, 105, 693-701	4.2	163
79	Comprehensive review of cardiovascular toxicity of drugs and related agents. *Medicinal Research Reviews*, **2018**, 38, 1332-1403	14.4	90
78	The role of reactive oxygen and nitrogen species in cellular iron metabolism. *Free Radical Research*, **2006**, 40, 263-72	4	70
77	In vitro interactions of coumarins with iron. *Biochimie*, **2010**, 92, 1108-14	4.6	58
76	In vitro evaluation of copper-chelating properties of flavonoids. *RSC Advances*, **2014**, 4, 32628-32638	3.7	55
75	Flavonoid metabolite 3-(3-hydroxyphenyl)propionic acid formed by human microflora decreases arterial blood pressure in rats. *Molecular Nutrition and Food Research*, **2016**, 60, 981-91	5.9	53
74	Cardiovascular effects of coumarins besides their antioxidant activity. *Current Topics in Medicinal Chemistry*, **2015**, 15, 830-49	3	49
73	The current clinical knowledge on the treatment of gambling disorder: A summary. *Synapse*, **2017**, 71, e21976	2.4	46
72	Iron reduction potentiates hydroxyl radical formation only in flavonols. *Food Chemistry*, **2012**, 135, 2584-92	8.5	46
71	Hypochlorite scavenging activity of flavonoids. *Journal of Pharmacy and Pharmacology*, **2004**, 56, 801-7	4.8	37
70	Amino acid derivatives as transdermal permeation enhancers. *Journal of Controlled Release*, **2013**, 165, 91-100	11.7	30
69	The novel iron chelator, 2-pyridylcarboxaldehyde 2-thiophenecarboxyl hydrazone, reduces catecholamine-mediated myocardial toxicity. *Chemical Research in Toxicology*, **2009**, 22, 208-17	4	26
68	The pharmacokinetics of flavanones. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 3155-3171	11.5	24
67	Novel method for rapid copper chelation assessment confirmed low affinity of D-penicillamine for copper in comparison with trientine and 8-hydroxyquinolines. *Journal of Inorganic Biochemistry*, **2013**, 123, 80-7	4.2	23
66	Vitamin C-Sources, Physiological Role, Kinetics, Deficiency, Use, Toxicity, and Determination. *Nutrients*, **2021**, 13,	6.7	23
65	Two flavonoid metabolites, 3,4-dihydroxyphenylacetic acid and 4-methylcatechol, relax arteries ex vivo and decrease blood pressure in vivo. *Vascular Pharmacology*, **2018**, 111, 36-43	5.9	22

64	Mathematical calculations of iron complex stoichiometry by direct UV-Vis spectrophotometry. *Bioorganic Chemistry*, **2013**, 49, 1-8	5.1	22
63	Cardiac biomarkers in a model of acute catecholamine cardiotoxicity. *Human and Experimental Toxicology*, **2009**, 28, 631-40	3.4	22
62	Antioxidant effects of coumarins include direct radical scavenging, metal chelation and inhibition of ROS-producing enzymes. *Current Topics in Medicinal Chemistry*, **2015**, 15, 415-31	3	22
61	Inhibitory Effects of Quercetin and Its Human and Microbial Metabolites on Xanthine Oxidase Enzyme. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	21
60	Parameters of oxidative stress status in healthy subjects: their correlations and stability after sample collection. *Journal of Clinical Laboratory Analysis*, **2006**, 20, 139-48	3	21
59	Antiplatelet Effects of Flavonoids Mediated by Inhibition of Arachidonic Acid Based Pathway. *Planta Medica*, **2016**, 82, 76-83	3.1	19
58	In vitro platelet antiaggregatory properties of 4-methylcoumarins. *Biochimie*, **2012**, 94, 2681-6	4.6	19
57	Vitamin A Update: Forms, Sources, Kinetics, Detection, Function, Deficiency, Therapeutic Use and Toxicity. *Nutrients*, **2021**, 13,	6.7	19
56	Simultaneous determination of quercetin and its metabolites in rat plasma by using ultra-high performance liquid chromatography tandem mass spectrometry. *Talanta*, **2018**, 185, 71-79	6.2	18
55	Aqueous injection of quercetin: An approach for confirmation of its direct in vivo cardiovascular effects. *International Journal of Pharmaceutics*, **2018**, 541, 224-233	6.5	17
54	The Stoichiometry of Isoquercitrin Complex with Iron or Copper Is Highly Dependent on Experimental Conditions. *Nutrients*, **2017**, 9,	6.7	15
53	4-Methylcatechol, a Flavonoid Metabolite with Potent Antiplatelet Effects. *Molecular Nutrition and Food Research*, **2019**, 63, e1900261	5.9	15
52	Direct administration of rutin does not protect against catecholamine cardiotoxicity. *Toxicology*, **2009**, 255, 25-32	4.4	15
51	The influence of alkaloids on oxidative stress and related signaling pathways. *Free Radical Biology and Medicine*, **2019**, 134, 429-444	7.8	13
50	The isoflavonoid tectorigenin has better antiplatelet potential than acetylsalicylic acid. *Phytomedicine*, **2017**, 35, 11-17	6.5	13
49	The effects of lactoferrin in a rat model of catecholamine cardiotoxicity. *BioMetals*, **2009**, 22, 353-61	3.4	12
48	Honey flavonoids inhibit hOATP2B1 and hOATP1A2 transporters and hOATP-mediated rosuvastatin cell uptake in vitro. *Xenobiotica*, **2018**, 48, 745-755	2	11
47	A Mixture of Phenolic Metabolites of Quercetin Can Decrease Elevated Blood Pressure of Spontaneously Hypertensive Rats Even in Low Doses. *Nutrients*, **2020**, 12,	6.7	10

46	Oral administration of quercetin is unable to protect against isoproterenol cardiotoxicity. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2014**, 387, 823-35	3.4	10
45	LC-UV/MS methods for the analysis of prochelator-boronyl salicylaldehyde isonicotinoyl hydrazone (BSIH) and its active chelator salicylaldehyde isonicotinoyl hydrazone (SIH). *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 105, 55-63	3.5	9
44	Dexrazoxane provided moderate protection in a catecholamine model of severe cardiotoxicity. *Canadian Journal of Physiology and Pharmacology*, **2012**, 90, 473-84	2.4	9
43	Biological Properties of Vitamins of the B-Complex, Part 1: Vitamins B, B, B, and B.. *Nutrients*, **2022**, 14,	6.7	9
42	Systematic review of pharmacokinetics and potential pharmacokinetic interactions of flavonolignans from silymarin. *Medicinal Research Reviews*, **2021**, 41, 2195-2246	14.4	9
41	Triazolo Based-Thiadiazole Derivatives. Synthesis, Biological Evaluation and Molecular Docking Studies. *Antibiotics*, **2021**, 10,	4.9	9
40	The Effect of Silymarin Flavonolignans and Their Sulfated Conjugates on Platelet Aggregation and Blood Vessels Ex Vivo. *Nutrients*, **2019**, 11,	6.7	8
39	Testing the Pharmacokinetic Interactions of 24 Colonic Flavonoid Metabolites with Human Serum Albumin and Cytochrome P450 Enzymes. *Biomolecules*, **2020**, 10,	5.9	8
38	Isoflavones Reduce Copper with Minimal Impact on Iron In Vitro. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 437381	6.7	8
37	An Original HPLC Method with Coulometric Detection to Monitor Hydroxyl Radical Generation via Fenton Chemistry. *Molecules*, **2019**, 24,	4.8	7
36	Biochanin A, the Most Potent of 16 Isoflavones, Induces Relaxation of the Coronary Artery Through the Calcium Channel and cGMP-dependent Pathway. *Planta Medica*, **2020**, 86, 708-716	3.1	7
35	Fruit extracts of 10 varieties of elderberry (Sambucus nigra L.) interact differently with iron and copper. *Phytochemistry Letters*, **2016**, 18, 232-238	1.9	7
34	Simultaneous determination of the novel thiosemicarbazone anti-cancer agent, Bp4eT, and its main phase I metabolites in plasma: application to a pilot pharmacokinetic study in rats. *Biomedical Chromatography*, **2014**, 28, 621-9	1.7	7
33	In?vitro characteristics of 1-phenyl-3-methyl-4-acylpyrazol-5-ones iron chelators. *Biochimie*, **2012**, 94, 125-31	4.6	7
32	Interaction of isolated silymarin flavonolignans with iron and copper. *Journal of Inorganic Biochemistry*, **2018**, 189, 115-123	4.2	7
31	Mono and dihydroxy coumarin derivatives: Copper chelation and reduction ability. *Journal of Trace Elements in Medicine and Biology*, **2018**, 46, 88-95	4.1	6
30	Marine Ligands of the Pregnane X Receptor (PXR): An Overview. *Marine Drugs*, **2019**, 17,	6	6
29	Acute initial haemodynamic changes in a rat isoprenaline model of cardiotoxicity. *Human and Experimental Toxicology*, **2012**, 31, 830-43	3.4	6

28	Common biomarkers of oxidative stress do not reflect cardiovascular dys/function in rats. *Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia*, **2013**, 157, 146-52	1.7	6
27	5-Benzyliden-2-(5-methylthiazol-2-ylimino)thiazolidin-4-ones as Antimicrobial Agents. Design, Synthesis, Biological Evaluation and Molecular Docking Studies. *Antibiotics*, **2021**, 10,	4.9	6
26	A simple, cheap but reliable method for evaluation of zinc chelating properties. *Bioorganic Chemistry*, **2018**, 77, 287-292	5.1	5
25	Applicability of the OECD 455 in-vitro assay for determination of hERa agonistic activity of isoflavonoids. *Toxicology and Applied Pharmacology*, **2020**, 386, 114831	4.6	5
24	Chelation of Iron and Copper by Quercetin B-Ring Methyl Metabolites, Isorhamnetin and Tamarixetin, and Their Effect on Metal-Based Fenton Chemistry. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 5926-5937	5.7	5
23	Interaction of soy isoflavones and their main metabolites with hOATP2B1 transporter. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2018**, 391, 1063-1071	3.4	5
22	Vitamin K - sources, physiological role, kinetics, deficiency, detection, therapeutic use, and toxicity. *Nutrition Reviews*, **2021**,	6.4	5
21	Intravenous rutin in rat exacerbates isoprenaline-induced cardiotoxicity likely due to intracellular oxidative stress. *Redox Report*, **2017**, 22, 78-90	5.9	4
20	Lanthanide(III) complexes are more active inhibitors of the Fenton reaction than pure ligands. *Redox Report*, **2016**, 21, 84-9	5.9	4
19	The Fate of Iron in The Organism and Its Regulatory Pathways. *Acta Medica (Hradec Kralove)*, **2005**, 48, 127-135	0.8	4
18	Interaction of 2,6,7-Trihydroxy-Xanthene-3-Ones with Iron and Copper, and Biological Effect of the Most Active Derivative on Breast Cancer Cells and Erythrocytes. *Applied Sciences (Switzerland)*, **2020**, 10, 4846	2.6	4
17	The fate of iron in the organism and its regulatory pathways. *Acta Medica (Hradec Kralove)*, **2005**, 48, 127-35	0.8	4
16	Is a highly linear relationship between the dose of quercetin and the pharmacological effect possible? - a comment on Liu, et al. Evaluation of antioxidant and immunity activities of quercetin in isoproterenol-treated rats. Molecules 2012, 17, 4281-4291. *Molecules*, **2014**, 19, 9606-9	4.8	3
15	3-Hydroxyphenylacetic Acid: A Blood Pressure-Reducing Flavonoid Metabolite.. *Nutrients*, **2022**, 14,	6.7	3
14	9-(4Ŧdimethylaminophenyl)-2,6,7-trihydroxy-xanthene-3-one is a Potentially Novel Antiplatelet Drug which Antagonizes the Effect of Thromboxane A2. *Medicinal Chemistry*, **2018**, 14, 200-209	1.8	3
13	Inhibitory effects of polyphenols and their colonic metabolites on CYP2D6 enzyme using two different substrates. *Biomedicine and Pharmacotherapy*, **2020**, 131, 110732	7.5	3
12	Protective Effects of D-Penicillamine on Catecholamine-Induced Myocardial Injury. *Oxidative Medicine and Cellular Longevity*, **2016**, 2016, 5213532	6.7	3
11	Vitamin D: sources, physiological role, biokinetics, deficiency, therapeutic use, toxicity, and overview of analytical methods for detection of vitamin D and its metabolites.. *Critical Reviews in Clinical Laboratory Sciences*, **2022**, 1-38	9.4	3

10	The influence of microbial isoflavonoid specific metabolites on platelets and transition metals iron and copper. *Phytomedicine*, **2019**, 62, 152974	6.5	2
9	Silymarin Dehydroflavonolignans Chelate Zinc and Partially Inhibit Alcohol Dehydrogenase.. *Nutrients*, **2021**, 13,	6.7	2
8	Chromenol Derivatives as Novel Antifungal Agents: Synthesis, In Silico and In Vitro Evaluation. *Molecules*, **2021**, 26,	4.8	2
7	The relationship of oxidative stress markers and parameters of myocardial function in a rat model of cardiotoxicity. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S42	7.8	1
6	Effect of novel 1-phenyl-3-methyl-4-acylpyrazolones on iron chelation and Fenton reaction. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S29-30	7.8	1
5	Comparison of Antiplatelet Effects of Phenol Derivatives in Humans.. *Biomolecules*, **2022**, 12,	5.9	1
4	Featuring ultimate sensitivity of high-resolution LC-MS analysis of phenolics in rat plasma. *Journal of Separation Science*, **2021**, 44, 1893-1903	3.4	1
3	Synthesis of 3,3-dimethyl-6-oxopyrano[3,4-c]pyridines and their antiplatelet and vasodilatory activity. *Journal of Pharmacy and Pharmacology*, **2021**,	4.8	1
2	The effects of bisphenols on the cardiovascular system.. *Critical Reviews in Toxicology*, **2022**, 1-22	5.7	1
1	Hematoxylin assay of cupric chelation can give false positive results. *Journal of Trace Elements in Medicine and Biology*, **2019**, 52, 29-36	4.1	0