

# Premysl Mladenka

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	3-Hydroxyphenylacetic Acid: A Blood Pressure-Reducing Flavonoid Metabolite.. <i>Nutrients</i> , <b>2022</b> , 14,	6.7	3
80	Biological Properties of Vitamins of the B-Complex, Part 1: Vitamins B, B, B, and B.. <i>Nutrients</i> , <b>2022</b> , 14,	6.7	9
79	Comparison of Antiplatelet Effects of Phenol Derivatives in Humans.. <i>Biomolecules</i> , <b>2022</b> , 12,	5.9	1
78	The effects of bisphenols on the cardiovascular system.. <i>Critical Reviews in Toxicology</i> , <b>2022</b> , 1-22	5.7	1
77	Vitamin D: sources, physiological role, biokinetics, deficiency, therapeutic use, toxicity, and overview of analytical methods for detection of vitamin D and its metabolites.. <i>Critical Reviews in Clinical Laboratory Sciences</i> , <b>2022</b> , 1-38	9.4	3
76	Silymarin Dehydroflavonolignans Chelate Zinc and Partially Inhibit Alcohol Dehydrogenase.. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	2
75	Featuring ultimate sensitivity of high-resolution LC-MS analysis of phenolics in rat plasma. <i>Journal of Separation Science</i> , <b>2021</b> , 44, 1893-1903	3.4	1
74	5-Benzyliden-2-(5-methylthiazol-2-ylimino)thiazolidin-4-ones as Antimicrobial Agents. Design, Synthesis, Biological Evaluation and Molecular Docking Studies. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	6
73	Chelation of Iron and Copper by Quercetin B-Ring Methyl Metabolites, Isorhamnetin and Tamarixetin, and Their Effect on Metal-Based Fenton Chemistry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 5926-5937	5.7	5
72	Vitamin A Update: Forms, Sources, Kinetics, Detection, Function, Deficiency, Therapeutic Use and Toxicity. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	19
71	Synthesis of 3,3-dimethyl-6-oxopyrano[3,4-c]pyridines and their antiplatelet and vasodilatory activity. <i>Journal of Pharmacy and Pharmacology</i> , <b>2021</b> ,	4.8	1
70	Chromenol Derivatives as Novel Antifungal Agents: Synthesis, In Silico and In Vitro Evaluation. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
69	Vitamin C-Sources, Physiological Role, Kinetics, Deficiency, Use, Toxicity, and Determination. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	23
68	Systematic review of pharmacokinetics and potential pharmacokinetic interactions of flavonolignans from silymarin. <i>Medicinal Research Reviews</i> , <b>2021</b> , 41, 2195-2246	14.4	9
67	Triazolo Based-Thiadiazole Derivatives. Synthesis, Biological Evaluation and Molecular Docking Studies. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	9
66	Vitamin K - sources, physiological role, kinetics, deficiency, detection, therapeutic use, and toxicity. <i>Nutrition Reviews</i> , <b>2021</b> ,	6.4	5
65	Biochanin A, the Most Potent of 16 Isoflavones, Induces Relaxation of the Coronary Artery Through the Calcium Channel and cGMP-dependent Pathway. <i>Planta Medica</i> , <b>2020</b> , 86, 708-716	3.1	7

64	Testing the Pharmacokinetic Interactions of 24 Colonic Flavonoid Metabolites with Human Serum Albumin and Cytochrome P450 Enzymes. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	8
63	A Mixture of Phenolic Metabolites of Quercetin Can Decrease Elevated Blood Pressure of Spontaneously Hypertensive Rats Even in Low Doses. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	10
62	The pharmacokinetics of flavanones. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2020</b> , 60, 3155-3171	11.5	24
61	Applicability of the OECD 455 in-vitro assay for determination of hERa agonistic activity of isoflavonoids. <i>Toxicology and Applied Pharmacology</i> , <b>2020</b> , 386, 114831	4.6	5
60	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. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4846	2.6	4
59	Inhibitory effects of polyphenols and their colonic metabolites on CYP2D6 enzyme using two different substrates. <i>Biomedicine and Pharmacotherapy</i> , <b>2020</b> , 131, 110732	7.5	3
58	An Original HPLC Method with Coulometric Detection to Monitor Hydroxyl Radical Generation via Fenton Chemistry. <i>Molecules</i> , <b>2019</b> , 24,	4.8	7
57	The Effect of Silymarin Flavonolignans and Their Sulfated Conjugates on Platelet Aggregation and Blood Vessels Ex Vivo. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	8
56	The influence of alkaloids on oxidative stress and related signaling pathways. <i>Free Radical Biology and Medicine</i> , <b>2019</b> , 134, 429-444	7.8	13
55	The influence of microbial isoflavonoid specific metabolites on platelets and transition metals iron and copper. <i>Phytomedicine</i> , <b>2019</b> , 62, 152974	6.5	2
54	Inhibitory Effects of Quercetin and Its Human and Microbial Metabolites on Xanthine Oxidase Enzyme. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	21
53	4-Methylcatechol, a Flavonoid Metabolite with Potent Antiplatelet Effects. <i>Molecular Nutrition and Food Research</i> , <b>2019</b> , 63, e1900261	5.9	15
52	Marine Ligands of the Pregnane X Receptor (PXR): An Overview. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	6
51	Hematoxylin assay of cupric chelation can give false positive results. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2019</b> , 52, 29-36	4.1	0
50	Aqueous injection of quercetin: An approach for confirmation of its direct in vivo cardiovascular effects. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 541, 224-233	6.5	17
49	Mono and dihydroxy coumarin derivatives: Copper chelation and reduction ability. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2018</b> , 46, 88-95	4.1	6
48	A simple, cheap but reliable method for evaluation of zinc chelating properties. <i>Bioorganic Chemistry</i> , <b>2018</b> , 77, 287-292	5.1	5
47	Comprehensive review of cardiovascular toxicity of drugs and related agents. <i>Medicinal Research Reviews</i> , <b>2018</b> , 38, 1332-1403	14.4	90

46	Simultaneous determination of quercetin and its metabolites in rat plasma by using ultra-high performance liquid chromatography tandem mass spectrometry. <i>Talanta</i> , <b>2018</b> , 185, 71-79	6.2	18
45	Two flavonoid metabolites, 3,4-dihydroxyphenylacetic acid and 4-methylcatechol, relax arteries ex vivo and decrease blood pressure in vivo. <i>Vascular Pharmacology</i> , <b>2018</b> , 111, 36-43	5.9	22
44	9-(4-dimethylaminophenyl)-2,6,7-trihydroxy-xanthene-3-one is a Potentially Novel Antiplatelet Drug which Antagonizes the Effect of Thromboxane A <sub>2</sub> . <i>Medicinal Chemistry</i> , <b>2018</b> , 14, 200-209	1.8	3
43	Honey flavonoids inhibit hOATP2B1 and hOATP1A2 transporters and hOATP-mediated rosuvastatin cell uptake in vitro. <i>Xenobiotica</i> , <b>2018</b> , 48, 745-755	2	11
42	Interaction of isolated silymarin flavonolignans with iron and copper. <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 189, 115-123	4.2	7
41	Interaction of soy isoflavones and their main metabolites with hOATP2B1 transporter. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2018</b> , 391, 1063-1071	3.4	5
40	Intravenous rutin in rat exacerbates isoprenaline-induced cardiotoxicity likely due to intracellular oxidative stress. <i>Redox Report</i> , <b>2017</b> , 22, 78-90	5.9	4
39	The current clinical knowledge on the treatment of gambling disorder: A summary. <i>Synapse</i> , <b>2017</b> , 71, e21976	2.4	46
38	The Stoichiometry of Isoquercitrin Complex with Iron or Copper Is Highly Dependent on Experimental Conditions. <i>Nutrients</i> , <b>2017</b> , 9,	6.7	15
37	The isoflavonoid tectorigenin has better antiplatelet potential than acetylsalicylic acid. <i>Phytomedicine</i> , <b>2017</b> , 35, 11-17	6.5	13
36	Fruit extracts of 10 varieties of elderberry ( <i>Sambucus nigra</i> L.) interact differently with iron and copper. <i>Phytochemistry Letters</i> , <b>2016</b> , 18, 232-238	1.9	7
35	Antiplatelet Effects of Flavonoids Mediated by Inhibition of Arachidonic Acid Based Pathway. <i>Planta Medica</i> , <b>2016</b> , 82, 76-83	3.1	19
34	Lanthanide(III) complexes are more active inhibitors of the Fenton reaction than pure ligands. <i>Redox Report</i> , <b>2016</b> , 21, 84-9	5.9	4
33	Protective Effects of D-Penicillamine on Catecholamine-Induced Myocardial Injury. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 5213532	6.7	3
32	Flavonoid metabolite 3-(3-hydroxyphenyl)propionic acid formed by human microflora decreases arterial blood pressure in rats. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 981-91	5.9	53
31	LC-UV/MS methods for the analysis of prochelator-boronyl salicylaldehyde isonicotinoyl hydrazone (BSIH) and its active chelator salicylaldehyde isonicotinoyl hydrazone (SIH). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 105, 55-63	3.5	9
30	Isoflavones Reduce Copper with Minimal Impact on Iron In Vitro. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2015</b> , 2015, 437381	6.7	8
29	Antioxidant effects of coumarins include direct radical scavenging, metal chelation and inhibition of ROS-producing enzymes. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 415-31	3	22

28	Cardiovascular effects of coumarins besides their antioxidant activity. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 830-49	3	49
27	In vitro evaluation of copper-chelating properties of flavonoids. <i>RSC Advances</i> , <b>2014</b> , 4, 32628-32638	3.7	55
26	Oral administration of quercetin is unable to protect against isoproterenol cardiotoxicity. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2014</b> , 387, 823-35	3.4	10
25	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. <i>Biomedical Chromatography</i> , <b>2014</b> , 28, 621-9	1.7	7
24	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. <i>Molecules</i> 2012, 17, 4281-4291. <i>Molecules</i> , <b>2014</b> , 19, 9606-9	4.8	3
23	The relationship of oxidative stress markers and parameters of myocardial function in a rat model of cardiotoxicity. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 75 Suppl 1, S42	7.8	1
22	Effect of novel 1-phenyl-3-methyl-4-acylpyrazolones on iron chelation and Fenton reaction. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 75 Suppl 1, S29-30	7.8	1
21	Mathematical calculations of iron complex stoichiometry by direct UV-Vis spectrophotometry. <i>Bioorganic Chemistry</i> , <b>2013</b> , 49, 1-8	5.1	22
20	Novel method for rapid copper chelation assessment confirmed low affinity of D-penicillamine for copper in comparison with trientine and 8-hydroxyquinolines. <i>Journal of Inorganic Biochemistry</i> , <b>2013</b> , 123, 80-7	4.2	23
19	Amino acid derivatives as transdermal permeation enhancers. <i>Journal of Controlled Release</i> , <b>2013</b> , 165, 91-100	11.7	30
18	Common biomarkers of oxidative stress do not reflect cardiovascular dys/function in rats. <i>Biomedical Papers of the Medical Faculty of the University Palacky&amp;#x0301;, Olomouc, Czechoslovakia</i> , <b>2013</b> , 157, 146-52	1.7	6
17	In vitro characteristics of 1-phenyl-3-methyl-4-acylpyrazol-5-ones iron chelators. <i>Biochimie</i> , <b>2012</b> , 94, 125-31	4.6	7
16	Iron reduction potentiates hydroxyl radical formation only in flavonols. <i>Food Chemistry</i> , <b>2012</b> , 135, 2584-93	4.6	46
15	Dexrazoxane provided moderate protection in a catecholamine model of severe cardiotoxicity. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2012</b> , 90, 473-84	2.4	9
14	In vitro platelet antiaggregatory properties of 4-methylcoumarins. <i>Biochimie</i> , <b>2012</b> , 94, 2681-6	4.6	19
13	Acute initial haemodynamic changes in a rat isoprenaline model of cardiotoxicity. <i>Human and Experimental Toxicology</i> , <b>2012</b> , 31, 830-43	3.4	6
12	In vitro analysis of iron chelating activity of flavonoids. <i>Journal of Inorganic Biochemistry</i> , <b>2011</b> , 105, 693-701	4.0	163
11	In vitro interactions of coumarins with iron. <i>Biochimie</i> , <b>2010</b> , 92, 1108-14	4.6	58

10	Cardiovascular effects of flavonoids are not caused only by direct antioxidant activity. <i>Free Radical Biology and Medicine</i> , <b>2010</b> , 49, 963-75	7.8	166
9	Direct administration of rutin does not protect against catecholamine cardiotoxicity. <i>Toxicology</i> , <b>2009</b> , 255, 25-32	4.4	15
8	The effects of lactoferrin in a rat model of catecholamine cardiotoxicity. <i>BioMetals</i> , <b>2009</b> , 22, 353-61	3.4	12
7	The novel iron chelator, 2-pyridylcarboxaldehyde 2-thiophenecarboxyl hydrazone, reduces catecholamine-mediated myocardial toxicity. <i>Chemical Research in Toxicology</i> , <b>2009</b> , 22, 208-17	4	26
6	Cardiac biomarkers in a model of acute catecholamine cardiotoxicity. <i>Human and Experimental Toxicology</i> , <b>2009</b> , 28, 631-40	3.4	22
5	Parameters of oxidative stress status in healthy subjects: their correlations and stability after sample collection. <i>Journal of Clinical Laboratory Analysis</i> , <b>2006</b> , 20, 139-48	3	21
4	The role of reactive oxygen and nitrogen species in cellular iron metabolism. <i>Free Radical Research</i> , <b>2006</b> , 40, 263-72	4	70
3	The Fate of Iron in The Organism and Its Regulatory Pathways. <i>Acta Medica (Hradec Kralove)</i> , <b>2005</b> , 48, 127-135	0.8	4
2	The fate of iron in the organism and its regulatory pathways. <i>Acta Medica (Hradec Kralove)</i> , <b>2005</b> , 48, 127-35	0.8	4
1	Hypochlorite scavenging activity of flavonoids. <i>Journal of Pharmacy and Pharmacology</i> , <b>2004</b> , 56, 801-7	4.8	37