

Karel Å mejkal

List of Publications by Year in descending order

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98
papers

3,030
citations

147801

31
h-index

189892

50
g-index

99
all docs

99
docs citations

99
times ranked

4530
citing authors

#	ARTICLE	IF	CITATIONS
1	Flavonoids as Potent Scavengers of Hydroxyl Radicals. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2016, 15, 720-738.	11.7	270
2	Berberine in Cardiovascular and Metabolic Diseases: From Mechanisms to Therapeutics. <i>Theranostics</i> , 2019, 9, 1923-1951.	10.0	232
3	Natural Products to Counteract the Epidemic of Cardiovascular and Metabolic Disorders. <i>Molecules</i> , 2016, 21, 807.	3.8	128
4	Flavonoids in Cancer Metastasis. <i>Cancers</i> , 2020, 12, 1498.	3.7	108
5	Evaluation of Anti-Inflammatory Activity of Prenylated Substances Isolated from <i>Morus alba</i> and <i>Morus nigra</i> . <i>Journal of Natural Products</i> , 2014, 77, 1297-1303.	3.0	72
6	Anti-inflammatory Activity of Natural Geranylated Flavonoids: Cyclooxygenase and Lipoxygenase Inhibitory Properties and Proteomic Analysis. <i>Journal of Natural Products</i> , 2017, 80, 999-1006.	3.0	72
7	C-Geranyl Compounds from <i>Paulownia tomentosa</i> Fruits. <i>Journal of Natural Products</i> , 2007, 70, 1244-1248.	3.0	69
8	Antibacterial C-Geranylflavonoids from <i>Paulownia tomentosa</i> Fruits. <i>Journal of Natural Products</i> , 2008, 71, 706-709.	3.0	68
9	MicroRNA targeting by quercetin in cancer treatment and chemoprotection. <i>Pharmacological Research</i> , 2019, 147, 104346.	7.1	68
10	Cytotoxic Activities of Several Geranyl-Substituted Flavanones. <i>Journal of Natural Products</i> , 2010, 73, 568-572.	3.0	65
11	Anticancer Activities of <i>Thymus vulgaris</i> L. in Experimental Breast Carcinoma in Vivo and in Vitro. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1749.	4.1	62
12	Anti-Infectivity against Herpes Simplex Virus and Selected Microbes and Anti-Inflammatory Activities of Compounds Isolated from <i>Eucalyptus globulus</i> Labill.. <i>Viruses</i> , 2018, 10, 360.	3.3	58
13	Flavonoids Targeting HIF-1: Implications on Cancer Metabolism. <i>Cancers</i> , 2021, 13, 130.	3.7	57
14	Genoprotective activities of plant natural substances in cancer and chemopreventive strategies in the context of 3P medicine. <i>EPMA Journal</i> , 2020, 11, 261-287.	6.1	56
15	Anthocyanins in purple and blue wheat grains and in resulting bread: quantity, composition, and thermal stability. <i>International Journal of Food Sciences and Nutrition</i> , 2015, 66, 514-519.	2.8	54
16	Cytotoxic potential of C-prenylated flavonoids. <i>Phytochemistry Reviews</i> , 2014, 13, 245-275.	6.5	53
17	Natural Products-Derived Chemicals: Breaking Barriers to Novel Anti-HSV Drug Development. <i>Viruses</i> , 2020, 12, 154.	3.3	52
18	Curcumin: Total-Scale Analysis of the Scientific Literature. <i>Molecules</i> , 2019, 24, 1393.	3.8	48

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19	Natural Compound Cudraflavone B Shows Promising Anti-inflammatory Properties in Vitro. Journal of Natural Products, 2011, 74, 614-619.	3.0	46
20	Minor C-geranylated flavanones from Paulownia tomentosa fruits with MRSA antibacterial activity. Phytochemistry, 2013, 89, 104-113.	2.9	46
21	<i>C</i>-Geranylated Flavanones from <i>Paulownia tomentosa</i> Fruits as Potential Anti-inflammatory Compounds Acting via Inhibition of TNF- α Production. Journal of Natural Products, 2015, 78, 850-863.	3.0	42
22	Young Barley Indicates Antitumor Effects in Experimental Breast Cancer In Vivo and In Vitro. Nutrition and Cancer, 2016, 68, 611-621.	2.0	41
23	DNA Methylation Status in Cancer Disease: Modulations by Plant-Derived Natural Compounds and Dietary Interventions. Biomolecules, 2019, 9, 289.	4.0	41
24	Chemopreventive and Therapeutic Efficacy of Cinnamomum zeylanicum L. Bark in Experimental Breast Carcinoma: Mechanistic In Vivo and In Vitro Analyses. Molecules, 2020, 25, 1399.	3.8	40
25	Phytochemical profile of Paulownia tomentosa (Thunb). Steud.. Phytochemistry Reviews, 2015, 14, 799-833.	6.5	38
26	Multiple In vitro biological effects of phenolic compounds from Morus alba root bark. Journal of Ethnopharmacology, 2020, 248, 112296.	4.1	37
27	Determination of Capsaicin Content and Pungency Level of Different Fresh and Dried Chilli Peppers. Folia Veterinaria, 2017, 61, 11-16.	0.1	36
28	Anti-inflammatory Natural Prenylated Phenolic Compounds - Potential Lead Substances. Current Medicinal Chemistry, 2018, 25, 1094-1159.	2.4	36
29	Evaluation of Cytotoxic Activity of <i>Schisandra chinensis</i> Lignans. Planta Medica, 2010, 76, 1672-1677.	1.3	34
30	Prenylated flavonoid morusin protects against TNBS-induced colitis in rats. PLoS ONE, 2017, 12, e0182464.	2.5	34
31	Anti-breast cancer effects of phytochemicals: primary, secondary, and tertiary care. EPMA Journal, 2022, 13, 315-334.	6.1	34
32	Antiradical Activity of Paulownia tomentosa (Scrophulariaceae) Extracts. Molecules, 2007, 12, 1210-1219.	3.8	33
33	Cytotoxic Activity of <i>C</i>-Geranyl Compounds from <i>Paulownia tomentosa</i> Fruits. Planta Medica, 2008, 74, 1488-1491.	1.3	32
34	Metabolism of Stilbenoids by Human Faecal Microbiota. Molecules, 2019, 24, 1155.	3.8	31
35	Implications of flavonoids as potential modulators of cancer neovascularity. Journal of Cancer Research and Clinical Oncology, 2020, 146, 3079-3096.	2.5	31
36	Diplacone and mimulone ameliorate dextran sulfate sodium-induced colitis in rats. F \ddot{A} -totera p \ddot{A} - \ddot{A} c, 2015, 101, 201-207.	2.2	30

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37	<i>Rhus coriaria</i> L. (Sumac) Demonstrates Oncostatic Activity in the Therapeutic and Preventive Model of Breast Carcinoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 183.	4.1	30
38	C-Geranylated flavonoids from <i>Paulownia tomentosa</i> fruits with antimicrobial potential and synergistic activity with antibiotics. <i>Pharmaceutical Biology</i> , 2016, 54, 1398-1407.	2.9	28
39	Parallel in vitro and in silico investigations into anti-inflammatory effects of non-prenylated stilbenoids. <i>Food Chemistry</i> , 2019, 285, 431-440.	8.2	28
40	Screening of Natural Compounds as P-Glycoprotein Inhibitors against Multidrug Resistance. <i>Biomedicines</i> , 2021, 9, 357.	3.2	28
41	Analgesic compounds from <i>Scorzonera latifolia</i> (Fisch. and Mey.) DC.. <i>Journal of Ethnopharmacology</i> , 2010, 131, 83-87.	4.1	27
42	Inhibitory activity of <i>Podospermum canum</i> and its active components on collagenase, elastase and hyaluronidase enzymes. <i>Bioorganic Chemistry</i> , 2019, 93, 103330.	4.1	27
43	Dietary phytochemicals as the potential protectors against carcinogenesis and their role in cancer chemoprevention. <i>Clinical and Experimental Medicine</i> , 2020, 20, 173-190.	3.6	27
44	Geranylated flavanone tomentodiplacone B inhibits proliferation of human monocytic leukaemia (THP-1) cells. <i>British Journal of Pharmacology</i> , 2011, 162, 1534-1541.	5.4	26
45	Natural compounds with dual antimicrobial and anti-inflammatory effects. <i>Phytochemistry Reviews</i> , 2020, 19, 1471-1502.	6.5	25
46	Molecular mechanisms of antiproliferative effects induced by Schisandra-derived dibenzocyclooctadiene lignans (+)-deoxyschisandrin and (â)-gomisin N in human tumour cell lines. <i>FÄ-toterapÄ-Äç</i> , 2014, 98, 241-247.	2.2	24
47	C-prenylated flavonoids with potential cytotoxic activity against solid tumor cell lines. <i>Phytochemistry Reviews</i> , 2019, 18, 1051-1100.	6.5	24
48	<i>Paeonia arietina</i> and <i>Paeonia kesrounensis</i> bioactive constituents: NMR, LC-DAD-MS fingerprinting and in vitro assays. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 165, 1-11.	2.8	24
49	The Chemical Composition of <i>Achillea wilhelmsii</i> C. Koch and Its Desirable Effects on Hyperglycemia, Inflammatory Mediators and Hypercholesterolemia as Risk Factors for Cardiometabolic Disease. <i>Molecules</i> , 2016, 21, 404.	3.8	23
50	Kazakh <i>Ziziphora</i> Species as Sources of Bioactive Substances. <i>Molecules</i> , 2016, 21, 826.	3.8	23
51	Psoromic Acid, a Lichen-Derived Molecule, Inhibits the Replication of HSV-1 and HSV-2, and Inactivates HSV-1 DNA Polymerase: Shedding Light on Antiherpetic Properties. <i>Molecules</i> , 2019, 24, 2912.	3.8	23
52	Tomentomimulol and mimulone B: Two new C-geranylated flavonoids from <i>Paulownia tomentosa</i> fruits. <i>Natural Product Research</i> , 2013, 27, 613-618.	1.8	22
53	In Vitro Study of Multi-Therapeutic Properties of <i>Thymus bovei</i> Benth. Essential Oil and Its Main Component for Promoting Their Use in Clinical Practice. <i>Journal of Clinical Medicine</i> , 2018, 7, 283.	2.4	22
54	Metabolism of cis- and trans-Resveratrol and Dihydroresveratrol in an Intestinal Epithelial Model. <i>Nutrients</i> , 2020, 12, 595.	4.1	22

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55	Identification of Key Structural Characteristics of <i>Schisandra chinensis</i> Lignans Involved in P-Glycoprotein Inhibition. <i>Journal of Natural Products</i> , 2014, 77, 2255-2263.	3.0	21
56	Turkish <i>Scorzonera</i> Species Extracts Attenuate Cytokine Secretion via Inhibition of NF- κ B Activation, Showing Anti-Inflammatory Effect in Vitro. <i>Molecules</i> , 2016, 21, 43.	3.8	21
57	Hepatoprotective and TNF- α inhibitory activity of <i>Zosima absinthifolia</i> extracts and coumarins. <i>F\ddot{A}-totera\ddot{A}</i> , 2011, 82, 454-459.	2.2	19
58	Phytochemical Analysis of <i>Podospermum</i> and <i>Scorzonera</i> n-Hexane Extracts and the HPLC Quantitation of Triterpenes. <i>Molecules</i> , 2018, 23, 1813.	3.8	18
59	Therapeutic potential of prenylated stilbenoid macasiamenene F through its anti-inflammatory and cytoprotective effects on LPS-challenged monocytes and microglia. <i>Journal of Ethnopharmacology</i> , 2020, 263, 113147.	4.1	17
60	Prenylated Flavonoids from <i>Morus alba</i> L. Cause Inhibition of G1/S Transition in THP-1 Human Leukemia Cells and Prevent the Lipopolysaccharide-Induced Inflammatory Response. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-13.	1.2	16
61	Direct and Indirect Antioxidant Effects of Selected Plant Phenolics in Cell-Based Assays. <i>Molecules</i> , 2021, 26, 2534.	3.8	16
62	Prenylated Stilbenoids Affect Inflammation by Inhibiting the NF- κ B/AP-1 Signaling Pathway and Cyclooxygenases and Lipoxygenase. <i>Journal of Natural Products</i> , 2019, 82, 1839-1848.	3.0	15
63	Effect of Selected Stilbenoids on Human Fecal Microbiota. <i>Molecules</i> , 2019, 24, 744.	3.8	15
64	Anti-inflammatory and antioxidant properties of chemical constituents of <i>Broussonetia papyrifera</i> . <i>Bioorganic Chemistry</i> , 2020, 104, 104298.	4.1	14
65	Evaluation of the Antiradical Activity of <i>Schisandra Chinensis</i> Lignans Using Different Experimental Models. <i>Molecules</i> , 2010, 15, 1223-1231.	3.8	13
66	Antioxidant Activity of Selected Stilbenoid Derivatives in a Cellular Model System. <i>Biomolecules</i> , 2019, 9, 468.	4.0	13
67	The chemotaxonomic significance of phenylethanoid glycosides of <i>Lathraea squamaria</i> L. (<i>Orobanchaceae</i>). <i>Biochemical Systematics and Ecology</i> , 2016, 64, 53-56.	1.3	11
68	Incorporating natural anti-inflammatory compounds into yeast glucan particles increases their bioactivity in vitro. <i>International Journal of Biological Macromolecules</i> , 2021, 169, 443-451.	7.5	9
69	Inhibitory activity of <i>Scorzonera latifolia</i> and its components on enzymes connected with healing process. <i>Journal of Ethnopharmacology</i> , 2019, 245, 112168.	4.1	8
70	<i>Maytenus macrocarpa</i> (Ruiz & Pav.) Briq.: Phytochemistry and Pharmacological Activity. <i>Molecules</i> , 2019, 24, 2288.	3.8	8
71	Glycosylated nervogenic acid derivatives from <i>Liparis condylobulbon</i> (Reichb.f.) leaves. <i>Carbohydrate Research</i> , 2009, 344, 1770-1774.	2.3	7
72	Abietane Diterpenes of the Genus <i>Plectranthus</i> sensu lato. <i>Molecules</i> , 2022, 27, 166.	3.8	7

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73	CHANGES IN THE LEVEL OF BIOACTIVE COMPOUNDS IN PAULOWNIA TOMENTOSA FRUITS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2011, 34, 276-288.	1.0	6
74	Flavonoid Glycosides from Endemic Bulgarian <i>Astragalus aitosensis</i> (Ivanisch.). <i>Molecules</i> , 2019, 24, 1419.	3.8	6
75	Antiproliferative and cytotoxic activities of C-Geranylated flavonoids from <i>Paulownia tomentosa</i> Steud. <i>Fruit. Bioorganic Chemistry</i> , 2021, 111, 104797.	4.1	6
76	Biological activity of Cannabis compounds: a modern approach to the therapy of multiple diseases. <i>Phytochemistry Reviews</i> , 2022, 21, 429-470.	6.5	6
77	Antioxidant potential of some natural and semi-synthetic flavonoid derivatives and the extracts from <i>Maclura pomifera</i> (Rafin.) Schneider (osage orange) and its essential oil composition. <i>Turkish Journal of Biochemistry</i> , 2016, 41, 403-411.	0.5	5
78	Antibacterial activity of <i>Capsicum</i> extract against selected strains of bacteria and micromycetes. <i>Potravinarstvo</i> , 2017, 11, 223-229.	0.6	5
79	Cholinesterase and Tyrosinase Inhibitory Potential and Antioxidant Capacity of <i>Lysimachia verticillaris</i> L. and Isolation of the Major Compounds. <i>Turkish Journal of Pharmaceutical Sciences</i> , 2020, 17, 528-534.	1.4	5
80	Assessment of Chemical Impact of Invasive Bryozoan <i>Pectinatella magnifica</i> on the Environment: Cytotoxicity and Antimicrobial Activity of <i>P. magnifica</i> Extracts. <i>Molecules</i> , 2016, 21, 1476.	3.8	4
81	Flavonoids as Anti-inflammatory Agents. , 2015, , 1-17.		4
82	Polyketide Derivatives in the Resistance of <i>Gerbera hybrida</i> to Powdery Mildew. <i>Frontiers in Plant Science</i> , 2021, 12, 790907.	3.6	4
83	Determination of antioxidant activity using oxidative damage to plasmid DNA – pursuit of solvent optimization. <i>Chemical Papers</i> , 2013, 67, .	2.2	3
84	Feasibility of Fraction Collection in HPLC Systems with Evaporative Light Scattering Detector: Analysis of <i>Pectinatella magnifica</i> . <i>Molecules</i> , 2016, 21, 1495.	3.8	2
85	Iridoid aglycones from the underground parts of <i>Lathraea squamaria</i> . <i>Biochemical Systematics and Ecology</i> , 2019, 86, 103928.	1.3	2
86	Flavonol glycosides from aerial parts of <i>Astragalus thracicus</i> Griseb. <i>Phytochemistry Letters</i> , 2021, 41, 119-122.	1.2	2
87	Indol-2-Carboxylic Acid Esters Containing N-Phenylpiperazine Moiety - Preparation and Cholinesterase-inhibiting Activity. <i>Current Organic Synthesis</i> , 2020, 17, 576-587.	1.3	2
88	Metabolism of Selected 2-Arylbenzofurans in a Colon In Vitro Model System. <i>Foods</i> , 2021, 10, 2754.	4.3	2
89	C-geranylated flavonoids from <i>Paulownia tomentosa</i> Steud. fruit as potential anti-inflammatory agents. <i>Journal of Ethnopharmacology</i> , 2022, 296, 115509.	4.1	2
90	Structure and NMR properties of 6-substituted 5,6-dihydrobenzo[<i>a</i>]phenanthridine alkaloids. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 814-821.	1.9	1

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91	Flavonoid 4â€²-O-Methylkuwanon E from <i>Morus alba</i> Induces the Differentiation of THP-1 Human Leukemia Cells. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-8.	1.2	1
92	Flavonoids as Anti-inflammatory Agents. , 2016, , 482-497.		1
93	Natural products, the continuous source of therapeutic molecules for various diseases: literature landscape analysis. <i>Current Molecular Pharmacology</i> , 2020, 13, .	1.5	1
94	Bioactive Molecules and Their Mechanisms of Action. <i>Molecules</i> , 2019, 24, 3752.	3.8	0
95	Natural Resources for Human Health: A New Interdisciplinary Journal Dedicated to Natural Sciences. , 2021, 1, 1-2.		0
96	Natural Compounds Isolated from <i>Maytenus macrocarpa</i> (Ruiz & Pav.) Briq. (Celastraceae). <i>Planta Medica</i> , 2013, 79, .	1.3	0
97	Cholinesterase and Tyrosinase Inhibitory Potential and Antioxidant Capacity of L. and Isolation of the Major Compounds. <i>Turkish Journal of Pharmaceutical Sciences</i> , 2020, 17, 528-534.	1.4	0
98	Synthesis of <i>C</i> -prenylated analogues of stilbenoid methyl ethers and their cyclic dihydrobenzopyran derivatives as potential anti-inflammatory agents. <i>RSC Advances</i> , 2022, 12, 8188-8192.	3.6	0