Juraj Harmatha

List of Publications by Year
in descending order

74	1,781	257450 24	302126 39
papers	citations	h-index	g-index

79	79	79	1730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biological activities of lignans and stilbenoids associated with plant-insect chemical interactions. Phytochemistry Reviews, 2003, 2, 321-330.	6.5	135
2	Chromatographic procedures for the isolation of plant steroids. Journal of Chromatography A, 2001, 935, 105-123.	3.7	132
3	Use of structural changes for stereochemical assignments of natural Î±-exomethylene Î³-lactones of the germacra-1(10),4-dienolide type on the basis of allylic and vicinal couplings of bridgehead protons. Hydrogenation of endocyclic double bonds. Collection of Czechoslovak Chemical Communications, 1978, 43, 2779-2799.	1.0	68
4	Comparison of the feeding deterrent activity of some sesquiterpene lactones and a lignan lactone towards selected insect storage pests. Biochemical Systematics and Ecology, 1984, 12, 95-98.	1.3	66
5	Ecdysteroids from the roots of Leuzea carthamoides. Phytochemistry, 1994, 37, 707-711.	2.9	58
6	Insect feeding deterrent activity of lignans and related phenylpropanoids with a methylenedioxyphenyl (piperonyl) structure moiety. Entomologia Experimentalis Et Applicata, 2002, 104, 51-60.	1.4	54
7	Ecdysteroid constituents of the mushroom Tapinella panuoides1Part 58 in the series â€œPlant Substancesâ€• For part 57 see Ref.[1], VokÃ¡Ã•et al. (1998) [VokÃ¡Ã• K., BudÄ›Å¡Ã±skÃ½, M., Harmatha, J. and PÃ±Å¡, J., Tetrahedron, 1998, 54, 1657].1. Phytochemistry, 1998, 49, 2109-2114.	2.9	53
8	Minor Ecdysteroid Components of Leuzea carthamoides. Collection of Czechoslovak Chemical Communications, 2002, 67, 124-139.	1.0	53
9	Phenolic and terpenoid heartwood constituents of Libocedrus yateensis. Phytochemistry, 1979, 18, 1495-1500.	2.9	50
10	Additional minor ecdysteroid components of Leuzea carthamoides. Steroids, 2008, 73, 502-514.	1.8	49
11	Biological activity of natural and synthetic ecdysteroids in the B11 bioassay. Archives of Insect Biochemistry and Physiology, 1997, 35, 219-225.	1.5	43
12	Phytoecdysteroids: Diversity, Biosynthesis and Distribution. , 2009, , 3-45.		40
13	Insect feeding deterrent activity of bisabolangelone and of some sesquiterpenes of eremophilane type. Biochemical Systematics and Ecology, 1984, 12, 99-101.	1.3	39
14	Identification of a spirostane-type saponin in the flowers of leek with inhibitory effects on growth of leek-moth larvae. Biochemical Systematics and Ecology, 1987, 15, 113-116.	1.3	39
15	The structure of yatein. Determination of the positions, and configurations of benzyl groups in lignans of the 2,3-dibenzylbutyrolactone type. Collection of Czechoslovak Chemical Communications, 1982, 47, 644-663.	1.0	38
16	Antifeeding activity of rotenone and some derivatives towards selected insect storage pests. Biochemical Systematics and Ecology, 1989, 17, 55-57.	1.3	36
17	Photochemical transformation of 20-hydroxyecdysone: production of monomeric and dimeric ecdysteroid analogues. Steroids, 2002, 67, 127-135.	1.8	36
18	The natural stilbenoid pinosylvin and activated neutrophils: effects on oxidative burst, protein kinase C, apoptosis and efficiency in adjuvant arthritis. Acta Pharmacologica Sinica, 2012, 33, 1285-1292.	6.1	36

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19	Phytochemical feeding deterrents for stored product insect pests. Phytochemistry Reviews, 2012, 11, 543-566.	6.5	36
20	Structure-efficiency relationship in derivatives of stilbene. Comparison of resveratrol, pinosylvin and pterostilbene. Neuroendocrinology Letters, 2008, 29, 802-5.	0.2	36
21	Symposium-in-Print Synergistic Insecticidal Mode of Action between Sesquiterpene Lactones and a Phototoxin, Î±-Terthienyl. Photochemistry and Photobiology, 2000, 71, 111.	2.5	34
22	Regioselective synthesis of 20-hydroxyecdysone glycosides. Tetrahedron, 1994, 50, 9679-9690.	1.9	32
23	New ergostane type ecdysteroids from fungi. Ecdysteroid constituents of mushroom Paxillus atrotomentosus. Tetrahedron, 1998, 54, 1657-1666.	1.9	28
24	Can chemical cues from blossom buds influence cultivar preference in the apple blossom weevil (Anthonomus pomorum)?. Entomologia Experimentalis Et Applicata, 2000, 95, 47-52.	1.4	28
25	Lignan Glucosides and Serotonin Phenylpropanoids from the Seeds of Leuzea carthamoides. Collection of Czechoslovak Chemical Communications, 2007, 72, 334-346.	1.0	25
26	Biological activities of a specific ecdysteroid dimer and of selected monomeric structural analogues in the BII bioassay1Dedicated to Professor Denis H. S. Horn on the occasion of his 80th birthday.1. Insect Biochemistry and Molecular Biology, 2002, 32, 181-185.	2.7	23
27	Inhibitor of sarco-endoplasmic reticulum Ca2+-ATPase thapsigargin stimulates production of nitric oxide and secretion of interferon-gamma. European Journal of Pharmacology, 2008, 588, 85-92.	3.5	23
28	Trilobolide and related sesquiterpene lactones from Laser trilobum possessing immunobiological properties. FÃ¬toterapÃ¬Ã¢, 2013, 89, 157-166.	2.2	22
29	Molecular targets of the natural antioxidant pterostilbene: effect on protein kinase C, caspase-3 and apoptosis in human neutrophils in vitro. Neuroendocrinology Letters, 2010, 31 Suppl 2, 84-90.	0.2	21
30	The Effects of Pterostilbene on Neutrophil Activity in Experimental Model of Arthritis. BioMed Research International, 2013, 2013, 1-7.	1.9	20
31	Phenylboronic acid as a versatile derivatization agent for chromatography of ecdysteroids. Journal of Chromatography A, 1992, 596, 271-275.	3.7	19
32	High-performance liquid chromatographic analysis and separation of N-feruloylserotonin isomers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 770, 291-295.	2.3	19
33	Ecdysteroid Glycosides: Identification, Chromatographic Properties, and Biological Significance. Journal of Chromatographic Science, 2005, 43, 149-157.	1.4	19
34	Decreased activity and accelerated apoptosis of neutrophils in the presence of natural polyphenols. Interdisciplinary Toxicology, 2012, 5, 59-64.	1.0	18
35	On the Molecular Pharmacology of Resveratrol on Oxidative Burst Inhibition in Professional Phagocytes. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-9.	4.0	17
36	Nâ€feruloylserotonin in preventive combination therapy with methotrexate reduced inflammation in adjuvant arthritis. Fundamental and Clinical Pharmacology, 2014, 28, 616-626.	1.9	16

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37	Sesquiterpene lactone trilobolide activates production of interferon-Î³ and nitric oxide. FÃ¬toterapÃ¬Ã¢, 2010, 81, 1213-1219.	2.2	15
38	Immunobiological properties of selected natural and chemically modified phenylpropanoids. Interdisciplinary Toxicology, 2011, 4, 5-10.	1.0	15
39	Naturally appearing N-feruloylserotonin isomers suppress oxidative burst of human neutrophils at the protein kinase C level. Pharmacological Reports, 2011, 63, 790-798.	3.3	15
40	Trilobolide-steroid hybrids: Synthesis, cytotoxic and antimycobacterial activity. Steroids, 2017, 117, 97-104.	1.8	15
41	Modified approach for preparing (E)-stilbenes related to resveratrol, and evaluation of their potential immunobiological effects. Collection of Czechoslovak Chemical Communications, 2010, 75, 175-186.	1.0	14
42	Pharmacological influence on processes of adjuvant arthritis: effect of the combination of an antioxidant active substance with methotrexate. Interdisciplinary Toxicology, 2012, 5, 84-91.	1.0	14
43	Cyclic Phenylboronates of Ecdysteroids as Products of Regiospecific Reaction with Phenylboronic Acid. Collection of Czechoslovak Chemical Communications, 1993, 58, 612-618.	1.0	13
44	Lack of interference of common phytoecdysteroids with production of nitric oxide by immune-activated mammalian macrophages. Steroids, 2008, 73, 466-471.	1.8	12
45	Involvement of caspase-3 in stilbene derivatives induced apoptosis of human neutrophils in vitro. Interdisciplinary Toxicology, 2012, 5, 76-80.	1.0	12
46	Effect of N-Feruloylserotonin and Methotrexate on Severity of Experimental Arthritis and on Messenger RNA Expression of Key Proinflammatory Markers in Liver. Journal of Immunology Research, 2016, 2016, 1-12.	2.2	12
47	Rapid determination of 20-hydroxyecdysteroids in complex mixtures by solid-phase extraction and mass spectrometry. Journal of Chromatography A, 1994, 658, 77-82.	3.7	11
48	Title is missing!. Journal of Chemical Ecology, 1998, 24, 1733-1743.	1.8	11
49	Polyphenol derivatives â€“ potential regulators of neutrophil activity. Interdisciplinary Toxicology, 2012, 5, 65-70.	1.0	11
50	Affinity chromatography reveals RuBisCO as an ecdysteroid-binding protein. Steroids, 2008, 73, 1433-1440.	1.8	10
51	Study of Possible Mechanisms Involved in the Inhibitory Effects of Coumarin Derivatives on Neutrophil Activity. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-10.	4.0	10
52	Systemic effects of phytoecdysteroids on the cabbage aphid Brevicoryne brassicae (Sternorrhyncha:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	10
53	Sesquiterpenes from the Senecioneae and their effect on food choice of the specialised leaf beetles Oreina cacaliae, Oreina speciosissima and the generalist snail Arianta arbustorum. Entomologia Experimentalis Et Applicata, 1996, 80, 169-172.	1.4	9
54	Diethylamine addition to natural sesquiterpenic Î±-exomethylene-Î³-lactones and its use for chemical transformations of these compounds. Collection of Czechoslovak Chemical Communications, 1982, 47, 2779-2785.	1.0	8

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55	Ecdysteroid 7,9(11)-dien-6-ones as potential photoaffinity labels for ecdysteroid binding proteins. Journal of Insect Science, 2002, 2, 1-10.	0.9	8
56	Ecdysteroid 7,9(11)-dien-6-ones as potential photoaffinity labels for ecdysteroid binding proteins. Journal of Insect Science, 2002, 2, 11.	1.5	8
57	Dimeric Ecdysteroid Analogues and Their Interaction with the Drosophila Ecdysteroid Receptor. Collection of Czechoslovak Chemical Communications, 2006, 71, 1229-1238.	1.0	8
58	Immunobiological properties of sesquiterpene lactones obtained by chemically transformed structural modifications of trilobolide. FÃ¬toterapÃ¬Ã¢, 2015, 107, 90-99.	2.2	8
59	The effect of exogenous 24-epibrassinolide on the ecdysteroid content in the leaves of Spinacia oleracea L.. Steroids, 2015, 97, 107-112.	1.8	8
60	In vivo effect of pinosylvin and pterostilbene in the animal model of adjuvant arthritis. Neuroendocrinology Letters, 2010, 31 Suppl 2, 91-5.	0.2	8
61	Equol Effectively Inhibits Toxic Activity of Human Neutrophils without Influencing Their Viability. Pharmacology, 2016, 97, 138-145.	2.2	7
62	Formation of reactive oxygen and nitrogen species in the presence of pinosylvin - an analogue of resveratrol. Neuroendocrinology Letters, 2010, 31 Suppl 2, 79-83.	0.2	7
63	Effect of stilbene derivative on superoxide generation and enzyme release from human neutrophils in vitro. Interdisciplinary Toxicology, 2012, 5, 71-5.	1.0	6
64	Pharmacological intervention with oxidative burst in human neutrophils. Interdisciplinary Toxicology, 2017, 10, 56-60.	1.0	6
65	Suppression of oxidative burst in human neutrophils with the naturally occurring serotonin derivative isomer from Leuzea carthamoides. Neuroendocrinology Letters, 2010, 31 Suppl 2, 69-72.	0.2	6
66	Synergistic Insecticidal Mode of Action between Sesquiterpene Lactones and a Phototoxin, Î±-Terthienyl. Photochemistry and Photobiology, 2000, 71, 111-115.	2.5	4
67	Immunoassay for determination of trilobolide. Steroids, 2017, 117, 105-111.	1.8	4
68	Archangelolide: A sesquiterpene lactone with immunobiological potential from Laserpitium archangelica. Beilstein Journal of Organic Chemistry, 2019, 15, 1933-1944.	2.2	4
69	Structural modification of trilobolide for upgrading its immunobiological properties and reducing its cytotoxic action. FÃ¬toterapÃ¬Ã¢, 2019, 134, 88-95.	2.2	4
70	Spirostanol Saponins from Flowers of Allium Porrum and Related Compounds Indicating Cytotoxic Activity and Affecting Nitric Oxide Production Inhibitory Effect in Peritoneal Macrophages. Molecules, 2021, 26, 6533.	3.8	4
71	Different effect of two synthetic coumarin-stilbene hybrid compounds on phagocyte activity. Neuroendocrinology Letters, 2010, 31 Suppl 2, 73-8.	0.2	2
72	Insect feeding deterrent activity of lignans and related phenylpropanoids with a methylenedioxyphenyl (piperonyl) structure moiety. , 2002, , 51-60.		1

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73	A window into the current state of isoprenoid research. Steroids, 2015, 97, 1.	1.8	0
74	Pharmacological activities of sesquiterpene lactone trilobolide and its conjugates as a promising compounds for anticancer and immunomodulatory therapies. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, OR34-3.	0.0	0