

Vlastimil Dohnal

List of Publications by Citations

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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.

71
papers

2,214
citations

27
h-index

45
g-index

74
ext. papers

2,429
ext. citations

3.1
avg. IF

4.61
L-index

#	Paper	IF	Citations
71	Biological degradation of aflatoxins. <i>Drug Metabolism Reviews</i> , 2009 , 41, 1-7	7	196
70	Oxidative stress-mediated cytotoxicity and metabolism of T-2 toxin and deoxynivalenol in animals and humans: an update. <i>Archives of Toxicology</i> , 2014 , 88, 1309-26	5.8	169
69	Metabolic pathways of trichothecenes. <i>Drug Metabolism Reviews</i> , 2010 , 42, 250-267	7	141
68	Metabolism of aflatoxins: key enzymes and interindividual as well as interspecies differences. <i>Archives of Toxicology</i> , 2014 , 88, 1635-44	5.8	136
67	Metabolic pathways of ochratoxin A. <i>Current Drug Metabolism</i> , 2011 , 12, 1-10	3.5	86
66	Trichothecenes: structure-toxic activity relationships. <i>Current Drug Metabolism</i> , 2013 , 14, 641-60	3.5	77
65	Metabolic pathways of T-2 toxin. <i>Current Drug Metabolism</i> , 2008 , 9, 77-82	3.5	68
64	Deoxynivalenol: signaling pathways and human exposure risk assessment--an update. <i>Archives of Toxicology</i> , 2014 , 88, 1915-28	5.8	64
63	Tyramine production in Dutch-type semi-hard cheese from two different producers. <i>Food Microbiology</i> , 2008 , 25, 219-27	6	59
62	Synthesis and in vitro evaluation of N-alkyl-7-methoxytacrine hydrochlorides as potential cholinesterase inhibitors in Alzheimer disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6093-5	2.9	57
61	Synthesis of the novel series of bispyridinium compounds bearing (E)-but-2-ene linker and evaluation of their reactivation activity against chlorpyrifos-inhibited acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 622-7	2.9	57
60	Synthesis of monooxime-monocarbamoyl bispyridinium compounds bearing (E)-but-2-ene linker and evaluation of their reactivation activity against tabun- and paraoxon-inhibited acetylcholinesterase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008 , 23, 70-6	5.6	53
59	Monooxime reactivators of acetylcholinesterase with (E)-but-2-ene linker: preparation and reactivation of tabun- and paraoxon-inhibited acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 6733-41	3.4	47
58	Synthesis of a novel series of bispyridinium compounds bearing a xylene linker and evaluation of their reactivation activity against chlorpyrifos-inhibited acetylcholinesterase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005 , 20, 409-15	5.6	46
57	Synthesis of a novel series of non-symmetrical bispyridinium compounds bearing a xylene linker and evaluation of their reactivation activity against tabun and paraoxon-inhibited acetylcholinesterase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2007 , 22, 425-32	5.6	42
56	Metabolic pathways of trichothecenes. <i>Drug Metabolism Reviews</i> , 2010 , 42, 250-67	7	39
55	Mono-oxime bisquaternary acetylcholinesterase reactivators with prop-1,3-diyl linkage-Preparation, in vitro screening and molecular docking. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 754-62	3.4	38

54	Novel series of bispyridinium compounds bearing a (Z)-but-2-ene linker--synthesis and evaluation of their reactivation activity against tabun and paraoxon-inhibited acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 3172-6	2.9	36
53	New methods in synthesis of acetylcholinesterase reactivators and evaluation of their potency to reactivate cyclosarin-inhibited AChE. <i>Chemical Papers</i> , 2006 , 60,	1.9	35
52	Monooxime-monocarbamoyl Bispyridinium Xylene-Linked Reactivators of Acetylcholinesterase-Synthesis, In vitro and Toxicity Evaluation, and Docking Studies. <i>ChemMedChem</i> , 2010 , 5, 247-54	3.7	34
51	Synthesis of asymmetrical bispyridinium compounds bearing cyano-moiety and evaluation of their reactivation activity against tabun and paraoxon-inhibited acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 5673-6	2.9	33
50	A comparison of ELISA and HPLC methods for determination of ochratoxin A in human blood serum in the Czech Republic. <i>Food and Chemical Toxicology</i> , 2013 , 62, 427-31	4.7	32
49	Biogenic amine content in dry fermented sausages as influenced by a producer, spice mix, starter culture, sausage diameter and time of ripening. <i>Meat Science</i> , 2009 , 83, 534-42	6.4	31
48	Metallic content of wines from the Canary Islands (Spain). Application of artificial neural networks to the data analysis. <i>Molecular Nutrition and Food Research</i> , 2002 , 46, 370-5		31
47	Synthesis of Bispyridinium Compounds Bearing Propane Linker and Evaluation of their Reactivation Activity against Tabun- and Paraoxon-Inhibited Acetylcholinesterase. <i>Letters in Organic Chemistry</i> , 2006 , 3, 831-835	0.6	30
46	Preparation, in vitro screening and molecular modelling of symmetrical bis-quinolinium cholinesterase inhibitors--implications for early myasthenia gravis treatment. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 2505-9	2.9	29
45	Development and validation of a FIA/UV-vis method for pK(a) determination of oxime based acetylcholinesterase reactivators. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 117, 240-6	3.5	27
44	Preparation and in vitro screening of symmetrical bis-isoquinolinium cholinesterase inhibitors bearing various connecting linkage--implications for early Myasthenia gravis treatment. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 811-8	6.8	27
43	Preparation and in vitro screening of symmetrical bispyridinium cholinesterase inhibitors bearing different connecting linkage-initial study for Myasthenia gravis implications. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 1763-6	2.9	27
42	Some factors influencing biogenic amines and polyamines content in Dutch-type semi-hard cheese. <i>European Food Research and Technology</i> , 2008 , 227, 29-36	3.4	26
41	Forage as a primary source of mycotoxins in animal diets. <i>International Journal of Environmental Research and Public Health</i> , 2011 , 8, 37-50	4.6	22
40	Monoquaternary pyridinium salts with modified side chain-synthesis and evaluation on model of tabun- and paraoxon-inhibited acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 8218-23	3.4	22
39	Synthesis and in vitro evaluation of N-(Bromobut-3-en-2-yl)-7-methoxy-1,2,3,4-tetrahydroacridin-9-amine as a cholinesterase inhibitor with regard to Alzheimer's disease treatment. <i>Molecules</i> , 2010 , 15, 8804-12	4.8	21
38	Prediction of chiral separations using a combination of experimental design and artificial neural networks. <i>Chirality</i> , 1999 , 11, 616-21	2.1	21
37	Tyrosine- and histidine-decarboxylase positive lactic acid bacteria and enterococci in dry fermented sausages. <i>Meat Science</i> , 2010 , 86, 870-7	6.4	20

36	Ochratoxin A levels in blood serum of Czech women in the first trimester of pregnancy and its correspondence with dietary intake of the mycotoxin contaminant. <i>Biomarkers</i> , 2013 , 18, 673-8	2.6	19
35	A general method for the quaternization of N,N-dimethyl benzylamines with long chain n-alkylbromides. <i>Journal of Applied Biomedicine</i> , 2004 , 2, 195-198	0.6	19
34	Determination of nickel in hydrogenated fats and selected chocolate bars in Czech Republic. <i>Food Chemistry</i> , 2017 , 217, 456-460	8.5	18
33	Design, synthesis and in vitro evaluation of benzothiazole-based ureas as potential ABAD/17βHSD10 modulators for Alzheimer's disease treatment. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3675-8	2.9	17
32	Preparation, in vitro screening and molecular modelling of symmetrical 4-tert-butylpyridinium cholinesterase inhibitors--analogues of SAD-128. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 150-4	2.9	16
31	Military potential of biological toxins. <i>Journal of Applied Biomedicine</i> , 2014 , 12, 63-77	0.6	15
30	Quantitative determination of acidic groups in functionalized graphene by direct titration. <i>Reactive and Functional Polymers</i> , 2016 , 103, 44-53	4.6	15
29	Determination of Benzalkonium Bromide Homologues in Disinfection Products Using High-Performance Liquid Chromatography. <i>Analytical Letters</i> , 2005 , 38, 673-682	2.2	14
28	Application of artificial neural networks for classification of uranium distribution in the Central Rand goldfield, South Africa. <i>Environmental Modeling and Assessment</i> , 2005 , 10, 143-152	2	14
27	The pH and mobile phase composition effects ochratoxin A fluorescence at liquid chromatography. <i>Journal of Chromatographic Science</i> , 2010 , 48, 766-70	1.4	13
26	Synthesis and In Vitro Evaluation of New Tacrine Derivates-Bis-Alkylene Linked 7-MEOTA. <i>Letters in Organic Chemistry</i> , 2010 , 7, 327-331	0.6	13
25	Rapid and Sensitive Method for Citrinin Determination Using High-Performance Liquid Chromatography with Fluorescence Detection. <i>Analytical Letters</i> , 2010 , 43, 786-792	2.2	13
24	Quantitative chiral analysis in capillary electrophoresis from unresolved peaks using derivative electropherograms, experimental design, and artificial neural networks. <i>Electrophoresis</i> , 2003 , 24, 2462-8	3.6	13
23	Occurrence of ochratoxin A and citrinin in Czech cereals and comparison of two HPLC methods for ochratoxin A detection. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2010 , 27, 1545-57	3.2	12
22	Prediction of a new broad-spectrum reactivator capable of reactivating acetylcholinesterase inhibited by nerve agents. <i>Journal of Applied Biomedicine</i> , 2005 , 3, 139-145	0.6	12
21	Fluctuation in the ergosterol and deoxynivalenol content in barley and malt during malting process. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 109-114	4.4	10
20	Quantitative analysis of chiral compounds from unresolved peaks in capillary electrophoresis using multivariate calibration with experimental design and artificial neural networks. <i>Chirality</i> , 2002 , 14, 509-18	2.1	10
19	Quaternary Heteroarenium Salts as the Competitive Inhibitors of the Brain Acetylcholinesterase. <i>Letters in Drug Design and Discovery</i> , 2004 , 1, 97-100	0.8	10

18	Retention behavior of pyridinium oximes on PFP stationary phase in high-performance liquid chromatography. <i>Journal of Chromatographic Science</i> , 2014 , 52, 246-51	1.4	9
17	The preparation, in vitro screening and molecular docking of symmetrical bisquaternary cholinesterase inhibitors containing a but-(2E)-en-1,4-diyl connecting linkage. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011 , 26, 245-53	5.6	9
16	Two step synthesis of a non-symmetric acetylcholinesterase reactivator. <i>Molecules</i> , 2007 , 12, 1755-61	4.8	9
15	Accumulation of cadmium in potential hyperaccumulators <i>Chlorophytum comosum</i> and <i>Callisia fragrans</i> and role of organic acids under stress conditions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 28129-28139	5.1	8
14	Application of near infrared spectroscopy to estimate selected free amino acids and soluble nitrogen during cheese ripening. <i>Acta Veterinaria Brno</i> , 2011 , 80, 293-297	0.8	8
13	Salicylic acid and phenolic compounds under cadmium stress in cucumber plants (<i>Cucumis sativus</i> L.). <i>Acta Physiologiae Plantarum</i> , 2016 , 38, 1	2.6	7
12	Determination of fumonisins in milled corn grains using HPLC-MS. <i>Journal of Chromatographic Science</i> , 2010 , 48, 680-4	1.4	6
11	What are artificial neural networks and what they can do?. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2005 , 149, 221-4	1.7	6
10	Factors Affecting the Content of Ergosterol and Zearalenone in Selected Grass Species at the End of the Growing Season. <i>Acta Veterinaria Brno</i> , 2009 , 78, 353-360	0.8	5
9	Ergosterol content in selected grasses on the end of vegetation period. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2014 , 55, 9-14	0.5	4
8	Preparation, in vitro screening and molecular modelling of monoquaternary compounds related to the selective acetylcholinesterase inhibitor BW284c51. <i>Medicinal Chemistry</i> , 2014 , 11, 21-9	1.8	4
7	Chemical terrorism. <i>Kontakt</i> , 2006 , 8, 123-127	0.3	3
6	A new concept in the separation of polyethyleneglycol-modified PAMAM dendrons by liquid chromatography. <i>Journal of Chromatographic Science</i> , 2014 , 52, 321-8	1.4	2
5	Reactivation potency of the acetylcholinesterase reactivator obidoxime is limited. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2009 , 153, 259-62	1.7	2
4	Monooxime Bispyridinium Reactivators Bearing Xylene Linker Synthesis and In Vitro Evaluation on Model of Organophosphate-Inhibited Acetylcholinesterase. <i>Medicinal Chemistry</i> , 2016 , 12, 362-70	1.8	
3	Prevention of the production of T-2 toxin and methods of minimizing its toxic effects. <i>Kontakt</i> , 2008 , 10, 200-208	0.3	
2	Methods of detection and identification of moulds. <i>Kontakt</i> , 2012 , 14, 497-504	0.3	
1	SELECTIVE MONITORING OF ENZYMATIC ACTIVITY OF ACETYLCHOLINESTERASE BY FLOW INJECTION ANALYSIS WITH MASS SPECTROMETRIC DETECTION. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> , 2013 , 82, 120-125	0.2	

