Martin Dolezal

List of Publications by Year
in descending order

98 papers	2,333 citations	159358 30 h-index	264894 42 g-index
106 all docs	106 docs citations	106 times ranked	2000 citing authors

#	Article	IF	Citations
1	Design, evaluation and structureâ€"Activity relationship studies of the AChE reactivators against organophosphorus pesticides. Medicinal Research Reviews, 2011, 31, 548-575.	5.0	106
2	Synthesis and antimicrobial evaluation of new 2-substituted 5,7-di-tert-butylbenzoxazoles. Bioorganic and Medicinal Chemistry, 2006, 14, 5850-5865.	1.4	100
3	Progress in Synthesis of New Acetylcholinesterase Reactivators During the Period 1990-2004. Current Organic Chemistry, 2007, 11, 229-238.	0.9	78
4	Pyrazine derivatives: a patent review (June 2012 â€" present). Expert Opinion on Therapeutic Patents, 2015, 25, 33-47.	2.4	72
5	Exploring the detailed spectroscopic characteristics, chemical and biological activity of two cyanopyrazine-2-carboxamide derivatives using experimental and theoretical tools. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117414.	2.0	69
6	Synthesis of the novel series of bispyridinium compounds bearing (E)-but-2-ene linker and evaluation of their reactivation activity against chlorpyrifos-inhibited acetylcholinesterase. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 622-627.	1.0	65
7	Synthesis and antimycobacterial evaluation of substituted pyrazinecarboxamides. European Journal of Medicinal Chemistry, 2008, 43, 1105-1113.	2.6	61
8	Synthesis of monooxime-monocarbamoyl bispyridinium compounds bearing (E)-but-2-ene linker and evaluation of their reactivation activity against tabun- and paraoxon-inhibited acetylcholinesterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2008, 23, 70-76.	2.5	61
9	Substituted Pyrazinecarboxamides: Synthesis and Biological Evaluation. Molecules, 2006, 11, 242-256.	1.7	54
10	Quinaldine Derivatives: Preparation and Biological Activity. Medicinal Chemistry, 2005, 1, 591-599.	0.7	53
11	Monooxime reactivators of acetylcholinesterase with (E)-but-2-ene linkerâ€"Preparation and reactivation of tabun- and paraoxon-inhibited acetylcholinesterase. Bioorganic and Medicinal Chemistry, 2007, 15, 6733-6741.	1.4	52
12	5-Lipoxygenase, Leukotrienes Biosynthesis and Potential Antileukotrienic Agents. Current Medicinal Chemistry, 2006, 13, 117-129.	1.2	48
13	Advances in Antifungal Drug Development: An Up-To-Date Mini Review. Pharmaceuticals, 2021, 14, 1312.	1.7	48
14	Spectroscopic, quantum chemical studies, Fukui functions, inÂvitro antiviral activity and molecular docking of 5-chloro-N-(3-nitrophenyl)pyrazine-2-carboxamide. Journal of Molecular Structure, 2016, 1119, 188-199.	1.8	47
15	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. Journal of Enzyme Inhibition and Medicinal Chemistry, 2007, 22, 425-432.	2.5	45
16	Mono-oxime bisquaternary acetylcholinesterase reactivators with prop-1,3-diyl linkageâ€"Preparation, in vitro screening and molecular docking. Bioorganic and Medicinal Chemistry, 2011, 19, 754-762.	1.4	44
17	Substituted Amides of Pyrazine-2-carboxylic acids: Synthesis and Biological Activity. Molecules, 2002, 7, 363-373.	1.7	43
18	Salicylanilide Acetates: Synthesis and Antibacterial Evaluation. Molecules, 2007, 12, 1-12.	1.7	40

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19	Novel series of bispyridinium compounds bearing a (Z)-but-2-ene linkerâ€"Synthesis and evaluation of their reactivation activity against tabun and paraoxon-inhibited acetylcholinesterase. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 3172-3176.	1.0	40
20	Preparation and in vitro screening of symmetrical bispyridinium cholinesterase inhibitors bearing different connecting linkageâ€"initial study for Myasthenia gravis implications. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1763-1766.	1.0	36
21	Synthesis, Antimycobacterial, Antifungal and Photosynthesis-Inhibiting Activity of Chlorinated N-phenylpyrazine-2-carboxamides â€. Molecules, 2010, 15, 8567-8581.	1.7	36
22	Synthesis of asymmetrical bispyridinium compounds bearing cyano-moiety and evaluation of their reactivation activity against tabun and paraoxon-inhibited acetylcholinesterase. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5673-5676.	1.0	35
23	Vibrational spectroscopic studies and ab initio calculations of a substituted amide of pyrazine-2-carboxylic acidâ€"C12H10ClN3O. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 725-730.	2.0	35
24	Vibrational spectroscopic analysis of cyanopyrazine-2-carboxamide derivatives and investigation of their reactive properties by DFT calculations and molecular dynamics simulations. Journal of Molecular Structure, 2017, 1131, 1-15.	1.8	35
25	Preparation and in vitro screening of symmetrical bis-isoquinolinium cholinesterase inhibitors bearing various connecting linkage â€“ Implications for early Myasthenia gravis treatment. European Journal of Medicinal Chemistry, 2011, 46, 811-818.	2.6	33
26	Recent Advances on Isoniazide Derivatives. Anti-Infective Agents in Medicinal Chemistry, 2008, 7, 12-31.	0.6	32
27	Substituted 5-aroylpyrazine-2-carboxylic acid derivatives: synthesis and biological activity. Il Farmaco, 2003, 58, 1105-1111.	0.9	31
28	Structure-Activity Relationship of Quaternary Acetylcholinesterase Inhibitors â€“ Outlook for Early Myasthenia Gravis Treatment. Current Medicinal Chemistry, 2010, 17, 1810-1824.	1.2	31
29	Synthesis and antimycobacterial properties of N-substituted 6-amino-5-cyanopyrazine-2-carboxamides. Bioorganic and Medicinal Chemistry, 2011, 19, 1471-1476.	1.4	31
30	Substituted N-Benzylpyrazine-2-carboxamides: Synthesis and Biological Evaluation. Molecules, 2012, 17, 13183-13198.	1.7	31
31	Mycobacterium tuberculosisenoyl-acyl carrier protein reductase inhibitors as potential antituberculotics: development in the past decade. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 629-648.	2.5	30
32	Synthesis of Bispyridinium Compounds Bearing Propane Linker and Evaluation of their Reactivation Activity against Tabun- and Paraoxon-Inhibited Acetylcholinesterase. Letters in Organic Chemistry, 2006, 3, 831-835.	0.2	30
33	Substituted Pyrazinecarboxamides as Abiotic Elicitors of Flavolignan Production in Silybum marianum (L.) Gaertn Cultures in Vitro. Molecules, 2010, 15, 331-340.	1.7	28
34	Spectroscopic (FT-IR, FT-Raman), first order hyperpolarizability, NBO analysis, HOMO and LUMO		

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37	Substituted N-Phenylpyrazine-2-carboxamides, Their Synthesis and Evaluation as Herbicides and Abiotic Elicitors. Molecules, 2007, 12, 2589-2598.	1.7	25
38	Substituted N-Phenylpyrazine-2-carboxamides: Synthesis and Antimycobacterial Evaluation. Molecules, 2009, 14, 4180-4189.	1.7	25
39	Vibrational spectroscopic investigations and computational study of 5-tert-Butyl-N-(4-trifluoromethylphenyl)pyrazine-2-carboxamide. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 113, 203-214.	2.0	23
40	Synthesis and antimycobacterial evaluation of N-substituted 5-chloropyrazine-2-carboxamides. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3589-3591.	1.0	22
41	Alkylamino derivatives of pyrazinamide: Synthesis and antimycobacterial evaluation. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 450-453.	1.0	22
42	Synthesis and Disinfection Effect of the Pyridine-4-aldoxime Based Salts. Molecules, 2015, 20, 3681-3696.	1.7	22
43	Synthesis and biological activity of 5-alkyl-6-(alkylsulfanyl)- or 5-alkyl-6-(arylsulfanyl)pyrazine-2-carboxamides and corresponding thioamides. Il Farmaco, 2002, 57, 71-78.	0.9	21
44	Salicylanilide esterification: unexpected formation of novel seven-membered rings. Tetrahedron Letters, 2006, 47, 5007-5011.	0.7	21
45	FT-IR and FT-Raman characterization and investigation of reactive properties of N-(3-iodo-4-methylphenyl)pyrazine-2-carboxamide by molecular dynamics simulations and DFT calculations. Journal of Molecular Structure, 2017, 1136, 14-24.	1.8	20
46	RP-HPLC determination of the lipophilicity of bispyridinium reactivators of acetylcholinesterase bearing a but-2-ene connecting linker. Analytical and Bioanalytical Chemistry, 2008, 391, 367-372.	1.9	19
47	Synthesis and antimycobacterial evaluation of pyrazinamide derivatives with benzylamino substitution. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 476-479.	1.0	18
48	Antimycobacterial Evaluation of Pyrazinoic Acid Reversible Derivatives. Current Pharmaceutical Design, 2011, 17, 3506-3514.	0.9	17
49	Synthesis and antimycobacterial evaluation of 5-alkylamino-N-phenylpyrazine-2-carboxamides. Bioorganic and Medicinal Chemistry, 2015, 23, 174-183.	1.4	17
50	Synthesis and Biological Evaluation of N-Alkyl-3-(alkylamino)-pyrazine-2-carboxamides. Molecules, 2015, 20, 8687-8711.	1.7	15
51	Design, synthesis and antimycobacterial activity of hybrid molecules combining pyrazinamide with a 4-phenylthiazol-2-amine scaffold. MedChemComm, 2018, 9, 685-696.	3.5	15
52	In vitro reactivation potency of bispyridinium (E)-but-2-ene linked acetylcholinesterase reactivators against tabun-inhibited acetylcholinesterase. Journal of Applied Biomedicine, 2007, 5, 25-30.	0.6	15
53	Novel Regioselective Preparation of 5-Chloropyrazine-2-Carbonitrile from Pyrazine-2-Carboxamide and Coupling Study of Substituted Phenylsulfanylpyrazine- 2-Carboxylic Acid Derivatives. Current Organic Chemistry, 2005, 9, 49-60.	0.9	14
54	INFLUENCE OF FOLIAR FERTILIZATION AND GROWTH REGULATOR ON MILK THISTLE SEED YIELD AND QUALITY. Journal of Plant Nutrition, 2010, 33, 818-830.	0.9	14

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55	Synthesis and antimycobacterial evaluation of N-substituted 3-aminopyrazine-2,5-dicarbonitriles. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1598-1601.	1.0	14
56	Synthesis of Novel Pyrazinamide Derivatives Based on 3-Chloropyrazine-2-carboxamide and Their Antimicrobial Evaluation. Molecules, 2017, 22, 223.	1.7	14
57	Pyrazinecarboxamides as Potential Elicitors of Flavonolignan and Flavonoid Production in Silybum marianum and Ononis arvensis Cultures In Vitro. Molecules, 2011, 16, 9142-9152.	1.7	13
58	Synthesis and Evaluation of Pyrazine Derivatives with Herbicidal Activity. , 0, , .		13
59	N-Substituted 5-Amino-6-methylpyrazine-2,3-dicarbonitriles: Microwave-Assisted Synthesis and Biological Properties. Molecules, 2014, 19, 651-671.	1.7	13
60	Spectroscopic (FT-IR, FT-Raman), first order hyperpolarizability, NBO analysis, HOMO and LUMO		

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73	Design, Synthesis, Antimycobacterial Evaluation, and In Silico Studies of 3-(Phenylcarbamoyl)-pyrazine-2-carboxylic Acids. Molecules, 2017, 22, 1491.	1.7	9
74	Derivatives of 3-Aminopyrazine-2-carboxamides: Synthesis, Antimicrobial Evaluation, and in Vitro Cytotoxicity. Molecules, 2019, 24, 1212.	1.7	9
75	Synthesis and Antituberculotic Activity of 5-Alkyl-6-chloro-2-pyrazinecarboxamides and Corresponding Thioamides. Collection of Czechoslovak Chemical Communications, 1996, 61, 1109-1114.	1.0	9
76	3-Substituted N-Benzylpyrazine-2-carboxamide Derivatives: Synthesis, Antimycobacterial and Antibacterial Evaluation. Molecules, 2017, 22, 495.	1.7	8
77	Design, Synthesis and Evaluation of N-pyrazinylbenzamides as Potential Antimycobacterial Agents. Molecules, 2018, 23, 2390.	1.7	8
78	Substituted N-(Pyrazin-2-yl)benzenesulfonamides; Synthesis, Anti-Infective Evaluation, Cytotoxicity, and In Silico Studies. Molecules, 2020, 25, 138.	1.7	8
79	5-Alkylamino-N-phenylpyrazine-2-carboxamides: Design, Preparation, and Antimycobacterial Evaluation. Molecules, 2020, 25, 1561.	1.7	8
80	Ureidopyrazine Derivatives: Synthesis and Biological Evaluation as Anti-Infectives and Abiotic Elicitors. Molecules, 2017, 22, 1797.	1.7	7
81	Synthesis and Antituberculotic Activity of Some Substituted 3-Arylamino-5-cyano-2-pyrazinecarboxamides. Collection of Czechoslovak Chemical Communications, 1995, 60, 1236-1241.	1.0	7
82	Preparation of Some 6-Substituted N-Pyrazinyl-2-pyrazinecarboxamides. Collection of Czechoslovak Chemical Communications, 1993, 58, 452-454.	1.0	6
83	Antimicrobial Evaluation of Some Arylsulfanylpyrazinecarboxylic Acid Derivatives. Medicinal Chemistry, 2007, 3, 277-280.	0.7	6
84	New Potentially Active Pyrazinamide Derivatives Synthesized Under Microwave Conditions. Molecules, 2014, 19, 9318-9338.	1.7	6
85	Old Drugs and New Targets as an Outlook for the Treatment of Tuberculosis. Current Medicinal Chemistry, 2019, 25, 5142-5167.	1.2	6
86	N-Pyrazinoyl Substituted Amino Acids as Potential Antimycobacterial Agentsâ€"the Synthesis and Biological Evaluation of Enantiomers. Molecules, 2020, 25, 1518.	1.7	5
87	N â€pyridinylbenzamides: an isosteric approach towards new antimycobacterial compounds. Chemical Biology and Drug Design, 2021, 97, 686-700.	1.5	4
88	Synthesis, Biological Evaluation, and In Silico Modeling of N-Substituted Quinoxaline-2-Carboxamides. Pharmaceuticals, 2021, 14, 768.	1.7	4
89	Design, synthesis and anti-mycobacterial evaluation of some new N-phenylpyrazine-2-carboxamides. Chemical Papers, 2015, .	1.0	2
90	Preparation of Some N-Substituted 3-Amino-5-cyano-2-pyrazinecarboxamides. Collection of Czechoslovak Chemical Communications, 1994, 59, 2562-2564.	1.0	2

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91	Microwave-Assisted Synthesis of Pyrazinamide Derivatives: The Coupling Reaction of 3-Chloropyrazine-2-Carboxamide and Ring-Substituted Anilines. Current Organic Synthesis, 2015, 12, 189-196.	0.7	2
92	Some Anilides of 2-Alkylthio- and 2-Chloro-6-Alkylthio-4-Pyridinecarboxylic Acids: Synthesis and Photosynthesis-Inhibiting Activity. Molecules, 2001, 6, 603-613.	1.7	1
93	Indole-2-carboxamide derivatives: a patent evaluation of WO2015036412A1. Expert Opinion on Therapeutic Patents, 2015, 25, 1487-1494.	2.4	1
94	Enhancing the CO2 capturing ability in leaf via xenobiotic auxin uptake. Science of the Total Environment, 2020, 745, 141032.	3.9	1
95	Preparation and antiplatelet activity of glycidic acid derivatives. Chemical Papers, 2008, 62, .	1.0	0
96	Synthesis, characterization and molecular structure of Ru(II) complex with benzoylpyrazine carboxylic acid derivatives. Polyhedron, 2012, 41, 104-114.	1.0	0
97	New synthetic pyrazine carboxamide derivatives as potential elicitors in production of secondary metabolite in In vitro cultures. Pharmacognosy Magazine, 2016, 12, 57.	0.3	0
98	Aminopyrazinoic acid esters as potential antimycobacterial drugs. Ceska A Slovenska Farmacie, 2013, 62, 84-8.	0.3	0