Timo Wille

List of Publications by Year
in descending order

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61	1,351	304368	377514
papers	citations	22 h-index	34 g-index

63	63	63	1121
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oximes in organophosphate poisoning: 60 years of hope and despair. Chemico-Biological Interactions, 2016, 259, 93-98.	1.7	123
2	Organophosphorus compounds and oximes: a critical review. Archives of Toxicology, 2020, 94, 2275-2292.	1.9	95
3	Toxicology of organophosphorus compounds in view of an increasing terrorist threat. Archives of Toxicology, 2016, 90, 2131-2145.	1.9	93
4	Improvement of the cold storage of blood vessels with a vascular preservation solution. Study in porcine aortic segments. Journal of Vascular Surgery, 2008, 47, 422-431.	0.6	54
5	Reactivation kinetics of a series of related bispyridinium oximes with organophosphate-inhibited human acetylcholinesteraseâ€"Structureâ€"activity relationships. Biochemical Pharmacology, 2012, 83, 1700-1706.	2.0	51
6	Efficacy of the rePON1 mutant IIG1 to prevent cyclosarin toxicity in vivo and to detoxify structurally different nerve agents in vitro. Archives of Toxicology, 2014, 88, 1257-1266.	1.9	51
7	Local sympathetic denervation attenuates myocardial inflammation and improves cardiac function after myocardial infarction in mice. Cardiovascular Research, 2018, 114, 291-299.	1.8	50
8	Catalytic bioscavengers in nerve agent poisoning: A promising approach?. Toxicology Letters, 2016, 244, 143-148.	0.4	43
9	Kinetic analysis of interactions of paraoxon and oximes with human, Rhesus monkey, swine, rabbit, rat and guinea pig acetylcholinesterase. Toxicology Letters, 2011, 200, 19-23.	0.4	41
10	Investigation of the reactivation kinetics of a large series of bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase. Toxicology Letters, 2016, 244, 136-142.	0.4	41
11	Detoxification of nerve agents by a substituted Î²-cyclodextrin: Application of a modified biological assay. Toxicology, 2009, 265, 96-100.	2.0	40
12	Reactivation of organophosphate-inhibited human, Cynomolgus monkey, swine and guinea pig acetylcholinesterase by MMB-4: A modified kinetic approach. Toxicology and Applied Pharmacology, 2010, 249, 231-237.	1.3	34
13	Drug development for the management of organophosphorus poisoning. Expert Opinion on Drug Discovery, 2013, 8, 1467-1477.	2.5	33
14	New modified Î²-cyclodextrin derivatives as detoxifying agents of chemical warfare agents (I). Synthesis and preliminary screening: Evaluation of the detoxification using a half-quantitative enzymatic assay. Toxicology Letters, 2013, 216, 200-205.	0.4	32
15	Diagnostics and treatment of nerve agent poisoningâ€"current status and future developments. Annals of the New York Academy of Sciences, 2020, 1479, 13-28.	1.8	30
16	In vitro detoxification of cyclosarin (GF) by modified cyclodextrins. Toxicology Letters, 2011, 200, 53-58.	0.4	28
17	Optimized strategies to synthesize Î²-cyclodextrin-oxime conjugates as a new generation of organophosphate scavengers. Organic and Biomolecular Chemistry, 2011, 9, 3026.	1.5	28
18	On-site analysis of acetylcholinesterase and butyrylcholinesterase activity with the ChE check mobile test kitâ€"Determination of reference values and their relevance for diagnosis of exposure to organophosphorus compounds. Toxicology Letters, 2016, 249, 22-28.	0.4	27

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19	Functionalized cyclodextrins bearing an alpha nucleophile â€“ A promising way to degrade nerve agents. Chemico-Biological Interactions, 2013, 203, 202-207.	1.7	24
20	Reactivation kinetics of 31 structurally different bispyridinium oximes with organophosphate-inhibited human butyrylcholinesterase. Archives of Toxicology, 2015, 89, 405-414.	1.9	24
21	Single treatment of VX poisoned guinea pigs with the phosphotriesterase mutant C23AL: Intraosseous versus intravenous injection. Toxicology Letters, 2016, 258, 198-206.	0.4	24
22	Effectiveness of a substituted Î²-cyclodextrin to prevent cyclosarin toxicity in vivo. Toxicology Letters, 2014, 226, 222-227.	0.4	23
23	Kinetic analysis of interactions between alkylene-linked bis-pyridiniumaldoximes and human acetylcholinesterases inhibited by various organophosphorus compounds. Biochemical Pharmacology, 2010, 80, 941-946.	2.0	22
24	In vitro kinetic interactions of DEET, pyridostigmine and organophosphorus pesticides with human cholinesterases. Chemico-Biological Interactions, 2011, 190, 79-83.	1.7	19
25	Investigation of kinetic interactions between approved oximes and human acetylcholinesterase inhibited by pesticide carbamates. Chemico-Biological Interactions, 2013, 206, 569-572.	1.7	19
26	Precision cut lung slices as test system for candidate therapeutics in organophosphate poisoning. Toxicology, 2017, 389, 94-100.	2.0	19
27	Structural requirements for effective oximes â€“ Evaluation of kinetic in vitro data with phosphylated human AChE and structurally different oximes. Chemico-Biological Interactions, 2013, 203, 125-128.	1.7	18
28	Development of a high-throughput screening for nerve agent detoxifying materials using a fully-automated robot-assisted biological assay. Toxicology in Vitro, 2010, 24, 1026-1031.	1.1	16
29	In vitro kinetics of nerve agent degradation by fresh frozen plasma (FFP). Archives of Toxicology, 2014, 88, 301-307.	1.9	16
30	Kinetic analysis of interactions of amodiaquine with human cholinesterases and organophosphorus compounds. Toxicology Letters, 2016, 246, 49-56.	0.4	16
31	Effect of MB327 and oximes on rat intestinal smooth muscle function. Chemico-Biological Interactions, 2013, 204, 1-5.	1.7	15
32	A case report of cholinesterase inhibitor poisoning: cholinesterase activities and analytical methods for diagnosis and clinical decision making. Archives of Toxicology, 2020, 94, 2239-2247.	1.9	14
33	Detoxification of G- and V-series nerve agents by the phosphotriesterase OpdA. Biocatalysis and Biotransformation, 2012, 30, 203-208.	1.1	13
34	Reactivation of nerve agent-inhibited human acetylcholinesterase by obidoxime, HI-6 and obidoxime+HI-6: Kinetic in vitro study with simulated nerve agent toxicokinetics and oxime pharmacokinetics. Toxicology, 2016, 350-352, 25-30.	2.0	13
35	Kinetic interactions of a homologous series of bispyridinium monooximes (HGG oximes) with native and phosphonylated human acetylcholinesterase. Toxicology Letters, 2012, 212, 29-32.	0.4	10
36	COPD and asthma therapeutics for supportive treatment in organophosphate poisoning. Clinical Toxicology, 2019, 57, 644-651.	0.8	10

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37	Effect of different buffers on kinetic properties of human acetylcholinesterase and the interaction with organophosphates and oximes. Archives of Toxicology, 2011, 85, 193-198.	1.9	9
38	Pseudocatalytic scavenging of the nerve agent VX with human blood components and the oximes obidoxime and HI-6. Archives of Toxicology, 2017, 91, 1309-1318.	1.9	9
39	Kinetic prerequisites of oximes as effective reactivators of organophosphate-inhibited acetylcholinesterase: a theoretical approach. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 303-308.	2.5	8
40	Investigation of cardiac glycosides from oleander in a human induced pluripotent stem cells derived cardiomyocyte model. Toxicology Letters, 2021, 350, 261-266.	0.4	8
41	Organophosphorus pesticides exhibit compound specific effects in rat precision-cut lung slices (PCLS): mechanisms involved in airway response, cytotoxicity, inflammatory activation and antioxidative defense. Archives of Toxicology, 2022, 96, 321-334.	1.9	8
42	Bispyridinium non-oximes: An evaluation of cardiac effects in isolated hearts and smooth muscle relaxing effects in jejunum. Toxicology in Vitro, 2016, 35, 11-16.	1.1	7
43	Kinetics of pesticide degradation by human fresh frozen plasma (FFP) in vitro. Toxicology Letters, 2016, 244, 124-128.	0.4	7
44	The arrhythmogenic potential of nerve agents and a cardiac safety profile of antidotes - A proof-of-concept study using human induced pluripotent stem cells derived cardiomyocytes (hiPSC-CM). Toxicology Letters, 2019, 308, 1-6.	0.4	7
45	Human small bowel as model for poisoning with organophosphorus compounds. Toxicology in Vitro, 2019, 57, 76-80.	1.1	7
46	In Vitro Interaction of Organophosphono- and Organophosphorothioates with Human Acetylcholinesterase. Molecules, 2020, 25, 3029.	1.7	7
47	Optimization of long-term cold storage of rat precision-cut lung slices with a tissue preservation solution. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L1023-L1035.	1.3	7
48	Evaluation of 6,6â€²-dithionicotinic acid as alternative chromogen in a modified Ellman methodâ€”comparison in various species. Toxicology Mechanisms and Methods, 2011, 21, 533-537.	1.3	6
49	Investigations of kinetic interactions between lipid emulsions, hydroxyethyl starch or dextran and organophosphorus compounds. Clinical Toxicology, 2013, 51, 918-922.	0.8	6
50	Post-VX exposure treatment of rats with engineered phosphotriesterases. Archives of Toxicology, 2022, 96, 571-583.	1.9	6
51	Adaptation of a dynamic in vitro model with real-time determination of butyrylcholinesterase activity in the presence of cyclosarin and an oxime. Toxicology in Vitro, 2015, 29, 162-167.	1.1	5
52	Evaluation of Functional and Structural Alterations in Muscle Tissue after Short-Term Cold Storage in a New Tissue Preservation Solution. Cells Tissues Organs, 2011, 194, 501-509.	1.3	4
53	Blaptica dubia as sentinels for exposure to chemical warfare agents â€“ a pilot study. Toxicology Letters, 2016, 262, 12-16.	0.4	4
54	A novel fluorogenic probe for the investigation of free thiols: Application to kinetic measurements of acetylcholinesterase activity. Toxicology Letters, 2016, 244, 161-166.	0.4	4

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55	Development of a sensitive, generic and easy to use organophosphate skin disclosure kit. Toxicology Letters, 2017, 280, 190-194.	0.4	4
56	The oximes HI-6 and MMB-4 fail to reactivate soman-inhibited human and guinea pig AChE: A kinetic in vitro study. Toxicology Letters, 2018, 293, 216-221.	0.4	4
57	Early diagnosis of nerve agent exposure with a mobile test kit and implications for medical countermeasures: a trigger to react. BMJ Military Health, 2020, 166, 99-102.	0.4	4
58	Application of a dynamic in vitro model with real-time determination of acetylcholinesterase activity for the investigation of tabun analogues and oximes. Toxicology in Vitro, 2015, 30, 514-520.	1.1	2
59	Human small bowel as a useful tool to investigate smooth muscle effects of potential therapeutics in organophosphate poisoning. Toxicology Letters, 2018, 293, 235-240.	0.4	2
60	Release of protein-bound nerve agents by excess fluoride from whole blood: GC-MS/MS method development, validation, and application to a real-life denatured blood sample. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1179, 122693.	1.2	2
61	Effect of cholinergic crisis on the potency of different emergency anaesthesia protocols in soman-poisoned rats. Clinical Toxicology, 2019, 57, 343-349.	0.8	1