

# Timo Wille

## List of Publications by Year in descending order

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61  
papers

1,351  
citations

304368

22  
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377514

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63  
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63  
docs citations

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times ranked

1121  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Post-VX exposure treatment of rats with engineered phosphotriesterases. Archives of Toxicology, 2022, 96, 571-583.	1.9	6
3	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
4	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
5	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
6	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
7	Organophosphorus compounds and oximes: a critical review. Archives of Toxicology, 2020, 94, 2275-2292.	1.9	95
8	Diagnostics and treatment of nerve agent poisoning – current status and future developments. Annals of the New York Academy of Sciences, 2020, 1479, 13-28.	1.8	30
9	In Vitro Interaction of Organophosphono- and Organophosphorothioates with Human Acetylcholinesterase. Molecules, 2020, 25, 3029.	1.7	7
10	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
11	COPD and asthma therapeutics for supportive treatment in organophosphate poisoning. Clinical Toxicology, 2019, 57, 644-651.	0.8	10
12	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
13	Human small bowel as model for poisoning with organophosphorus compounds. Toxicology in Vitro, 2019, 57, 76-80.	1.1	7
14	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
15	Local sympathetic denervation attenuates myocardial inflammation and improves cardiac function after myocardial infarction in mice. Cardiovascular Research, 2018, 114, 291-299.	1.8	50
16	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
17	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
18	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

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19	Development of a sensitive, generic and easy to use organophosphate skin disclosure kit. <i>Toxicology Letters</i> , 2017, 280, 190-194.	0.4	4
20	Precision cut lung slices as test system for candidate therapeutics in organophosphate poisoning. <i>Toxicology</i> , 2017, 389, 94-100.	2.0	19
21	Toxicology of organophosphorus compounds in view of an increasing terrorist threat. <i>Archives of Toxicology</i> , 2016, 90, 2131-2145.	1.9	93
22	On-site analysis of acetylcholinesterase and butyrylcholinesterase activity with the ChE check mobile test kit – Determination of reference values and their relevance for diagnosis of exposure to organophosphorus compounds. <i>Toxicology Letters</i> , 2016, 249, 22-28.	0.4	27
23	Bispyridinium non-oximes: An evaluation of cardiac effects in isolated hearts and smooth muscle relaxing effects in jejunum. <i>Toxicology in Vitro</i> , 2016, 35, 11-16.	1.1	7
24	Oximes in organophosphate poisoning: 60 years of hope and despair. <i>Chemico-Biological Interactions</i> , 2016, 259, 93-98.	1.7	123
25	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. <i>Toxicology</i> , 2016, 350-352, 25-30.	2.0	13
26	Blaptica dubia as sentinels for exposure to chemical warfare agents – a pilot study. <i>Toxicology Letters</i> , 2016, 262, 12-16.	0.4	4
27	Single treatment of VX poisoned guinea pigs with the phosphotriesterase mutant C23AL: Intraosseous versus intravenous injection. <i>Toxicology Letters</i> , 2016, 258, 198-206.	0.4	24
28	Kinetic analysis of interactions of amodiaquine with human cholinesterases and organophosphorus compounds. <i>Toxicology Letters</i> , 2016, 246, 49-56.	0.4	16
29	A novel fluorogenic probe for the investigation of free thiols: Application to kinetic measurements of acetylcholinesterase activity. <i>Toxicology Letters</i> , 2016, 244, 161-166.	0.4	4
30	Kinetics of pesticide degradation by human fresh frozen plasma (FFP) in vitro. <i>Toxicology Letters</i> , 2016, 244, 124-128.	0.4	7
31	Catalytic bioscavengers in nerve agent poisoning: A promising approach?. <i>Toxicology Letters</i> , 2016, 244, 143-148.	0.4	43
32	Investigation of the reactivation kinetics of a large series of bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase. <i>Toxicology Letters</i> , 2016, 244, 136-142.	0.4	41
33	Application of a dynamic in vitro model with real-time determination of acetylcholinesterase activity for the investigation of tabun analogues and oximes. <i>Toxicology in Vitro</i> , 2015, 30, 514-520.	1.1	2
34	Adaptation of a dynamic in vitro model with real-time determination of butyrylcholinesterase activity in the presence of cyclosarin and an oxime. <i>Toxicology in Vitro</i> , 2015, 29, 162-167.	1.1	5
35	Reactivation kinetics of 31 structurally different bispyridinium oximes with organophosphate-inhibited human butyrylcholinesterase. <i>Archives of Toxicology</i> , 2015, 89, 405-414.	1.9	24
36	Efficacy of the rePON1 mutant IIG1 to prevent cyclosarin toxicity in vivo and to detoxify structurally different nerve agents in vitro. <i>Archives of Toxicology</i> , 2014, 88, 1257-1266.	1.9	51

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37	In vitro kinetics of nerve agent degradation by fresh frozen plasma (FFP). Archives of Toxicology, 2014, 88, 301-307.	1.9	16
38	Effectiveness of a substituted $\beta$ -cyclodextrin to prevent cyclosarin toxicity in vivo. Toxicology Letters, 2014, 226, 222-227.	0.4	23
39	Drug development for the management of organophosphorus poisoning. Expert Opinion on Drug Discovery, 2013, 8, 1467-1477.	2.5	33
40	Investigations of kinetic interactions between lipid emulsions, hydroxyethyl starch or dextran and organophosphorus compounds. Clinical Toxicology, 2013, 51, 918-922.	0.8	6
41	Investigation of kinetic interactions between approved oximes and human acetylcholinesterase inhibited by pesticide carbamates. Chemico-Biological Interactions, 2013, 206, 569-572.	1.7	19
42	Functionalized cyclodextrins bearing an alpha nucleophile – A promising way to degrade nerve agents. Chemico-Biological Interactions, 2013, 203, 202-207.	1.7	24
43	Effect of MB327 and oximes on rat intestinal smooth muscle function. Chemico-Biological Interactions, 2013, 204, 1-5.	1.7	15
44	Structural requirements for effective oximes – Evaluation of kinetic in vitro data with phosphorylated human AChE and structurally different oximes. Chemico-Biological Interactions, 2013, 203, 125-128.	1.7	18
45	New modified $\beta$ -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
46	Detoxification of G- and V-series nerve agents by the phosphotriesterase OpdA. Biocatalysis and Biotransformation, 2012, 30, 203-208.	1.1	13
47	Kinetic interactions of a homologous series of bispyridinium monooximes (HGG oximes) with native and phosphorylated human acetylcholinesterase. Toxicology Letters, 2012, 212, 29-32.	0.4	10
48	Reactivation kinetics of a series of related bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase – Structure – activity relationships. Biochemical Pharmacology, 2012, 83, 1700-1706.	2.0	51
49	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
50	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
51	In vitro detoxification of cyclosarin (GF) by modified cyclodextrins. Toxicology Letters, 2011, 200, 53-58.	0.4	28
52	Optimized strategies to synthesize $\beta$ -cyclodextrin-oxime conjugates as a new generation of organophosphate scavengers. Organic and Biomolecular Chemistry, 2011, 9, 3026.	1.5	28
53	In vitro kinetic interactions of DEET, pyridostigmine and organophosphorus pesticides with human cholinesterases. Chemico-Biological Interactions, 2011, 190, 79-83.	1.7	19
54	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

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55	Evaluation of Functional and Structural Alterations in Muscle Tissue after Short-Term Cold Storage in a New Tissue Preservation Solution. <i>Cells Tissues Organs</i> , 2011, 194, 501-509.	1.3	4
56	Evaluation of 6,6-dithionicotinic acid as alternative chromogen in a modified Ellman method—comparison in various species. <i>Toxicology Mechanisms and Methods</i> , 2011, 21, 533-537.	1.3	6
57	Reactivation of organophosphate-inhibited human, Cynomolgus monkey, swine and guinea pig acetylcholinesterase by MMB-4: A modified kinetic approach. <i>Toxicology and Applied Pharmacology</i> , 2010, 249, 231-237.	1.3	34
58	Kinetic analysis of interactions between alkylene-linked bis-pyridiniumalldoximes and human acetylcholinesterases inhibited by various organophosphorus compounds. <i>Biochemical Pharmacology</i> , 2010, 80, 941-946.	2.0	22
59	Development of a high-throughput screening for nerve agent detoxifying materials using a fully-automated robot-assisted biological assay. <i>Toxicology in Vitro</i> , 2010, 24, 1026-1031.	1.1	16
60	Detoxification of nerve agents by a substituted $\beta$ -cyclodextrin: Application of a modified biological assay. <i>Toxicology</i> , 2009, 265, 96-100.	2.0	40
61	Improvement of the cold storage of blood vessels with a vascular preservation solution. Study in porcine aortic segments. <i>Journal of Vascular Surgery</i> , 2008, 47, 422-431.	0.6	54