

# Franz Worek

## List of Publications by Year in Descending Order

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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.

248 papers	8,124 citations	45 h-index	78 g-index
253 ext. papers	8,809 ext. citations	4.6 avg, IF	5.96 L-index

#	Paper	IF	Citations
248	Organophosphorus pesticides exhibit compound specific effects in rat precision-cut lung slices (PCLS): mechanisms involved in airway response, cytotoxicity, inflammatory activation and antioxidative defense. <i>Archives of Toxicology</i> , <b>2021</b> , 1	5.8	1
247	Optimization of long-term cold storage of rat precision-cut lung slices with a tissue preservation solution. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2021</b> , 321, L1023-L1035	5.8	0
246	Catalytic activity and stereoselectivity of engineered phosphotriesterases towards structurally different nerve agents in vitro. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 2815-2823	5.8	3
245	Development of versatile and potent monoquaternary reactivators of acetylcholinesterase. <i>Archives of Toxicology</i> , <b>2021</b> , 95, 985-1001	5.8	1
244	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2021</b> , 1179, 122693	3.2	
243	Inhibition of an organophosphate-detoxifying bacterial phosphotriesterase by albumin and plasma thiol components. <i>Toxicology Letters</i> , <b>2021</b> , 350, 194-201	4.4	
242	Investigation of cardiac glycosides from oleander in a human induced pluripotent stem cells derived cardiomyocyte model. <i>Toxicology Letters</i> , <b>2021</b> , 350, 261-266	4.4	0
241	Post-VX exposure treatment of rats with engineered phosphotriesterases.. <i>Archives of Toxicology</i> , <b>2021</b> , 96, 571	5.8	1
240	Translating the Concept of Bispecific Antibodies to Engineering Heterodimeric Phosphotriesterases with Broad Organophosphate Substrate Recognition. <i>Biochemistry</i> , <b>2020</b> , 59, 4395-4406	12.06	5
239	Early diagnosis of nerve agent exposure with a mobile test kit and implications for medical countermeasures: a trigger to react. <i>BMJ Military Health</i> , <b>2020</b> , 166, 99-102	1	1
238	Organophosphorus compounds and oximes: a critical review. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 2275-2292	5.8	42
237	Diagnostics and treatment of nerve agent poisoning-current status and future developments. <i>Annals of the New York Academy of Sciences</i> , <b>2020</b> , 1479, 13-28	6.5	9
236	Structural and Functional Characterization of New SsoPox Variant Points to the Dimer Interface as a Driver for the Increase in Promiscuous Paraoxonase Activity. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	3
235	Toxicokinetic aspects of nerve agents and vesicants <b>2020</b> , 875-919		6
234	Influence of cyclic and acyclic cucurbiturils on the degradation pathways of the chemical warfare agent VX. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 5218-5227	3.9	2
233	In Vitro Interaction of Organophosphono- and Organophosphorothioates with Human Acetylcholinesterase. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
232	Impact of soman and acetylcholine on the effects of propofol in cultured cortical networks. <i>Toxicology Letters</i> , <b>2020</b> , 322, 98-103	4.4	

231	Synthesis and in vitro evaluation of novel non-oximes for the reactivation of nerve agent inhibited human acetylcholinesterase. <i>Chemico-Biological Interactions</i> , <b>2020</b> , 326, 109139	5	2
230	A catalytic bioscavenger with improved stability and reduced susceptibility to oxidation for treatment of acute poisoning with neurotoxic organophosphorus compounds. <i>Toxicology Letters</i> , <b>2020</b> , 321, 138-145	4.4	10
229	Screening of chiral shift reagents suitable to generically separate the enantiomers of V-agents by P-NMR spectroscopy. <i>Toxicology Letters</i> , <b>2020</b> , 320, 28-36	4.4	0
228	Efficacy of an organophosphorus hydrolase enzyme (OpdA) in human serum and minipig models of organophosphorus insecticide poisoning. <i>Clinical Toxicology</i> , <b>2020</b> , 58, 397-405	2.9	7
227	A case report of cholinesterase inhibitor poisoning: cholinesterase activities and analytical methods for diagnosis and clinical decision making. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 2239-2247	5.8	6
226	COPD and asthma therapeutics for supportive treatment in organophosphate poisoning. <i>Clinical Toxicology</i> , <b>2019</b> , 57, 644-651	2.9	6
225	Forensic evidence of sulfur mustard exposure in real cases of human poisoning by detection of diverse albumin-derived protein adducts. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 1881-1891	5.8	26
224	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). <i>Toxicology Letters</i> , <b>2019</b> , 308, 1-6	4.4	7
223	Human small bowel as model for poisoning with organophosphorus compounds. <i>Toxicology in Vitro</i> , <b>2019</b> , 57, 76-80	3.6	3
222	The in vitro protective effects of the three novel nanomolar reversible inhibitors of human cholinesterases against irreversible inhibition by organophosphorous chemical warfare agents. <i>Chemico-Biological Interactions</i> , <b>2019</b> , 309, 108714	5	5
221	New Resensitizers for the Nicotinic Acetylcholine Receptor by Ligand-Based Pharmacophore Modeling. <i>Current Computer-Aided Drug Design</i> , <b>2019</b> , 15, 104-109	1.4	1
220	Evaluation of the accuracy of "ChE check mobile" in measurement of acetylcholinesterase in pesticide poisoning. <i>Clinical Toxicology</i> , <b>2019</b> , 57, 411-414	2.9	5
219	Effect of cholinergic crisis on the potency of different emergency anaesthesia protocols in soman-poisoned rats. <i>Clinical Toxicology</i> , <b>2019</b> , 57, 343-349	2.9	1
218	Bioanalytical verification of V-type nerve agent exposure: simultaneous detection of phosphorylated tyrosines and cysteine-containing disulfide-adducts derived from human albumin. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 1463-1474	4.4	18
217	Counteracting desensitization of human $\alpha$ -nicotinic acetylcholine receptors with bispyridinium compounds as an approach against organophosphorus poisoning. <i>Toxicology Letters</i> , <b>2018</b> , 293, 149-156	4.4	7
216	Fatal sarin poisoning in Syria 2013: forensic verification within an international laboratory network. <i>Forensic Toxicology</i> , <b>2018</b> , 36, 61-71	2.6	129
215	Immediate responses of the cockroach <i>Blattella germanica</i> after the exposure to sulfur mustard. <i>Archives of Toxicology</i> , <b>2018</b> , 92, 337-346	5.8	2
214	In vitro pharmacological characterization of the bispyridinium non-oxime compound MB327 and its 2- and 3-regioisomers. <i>Toxicology Letters</i> , <b>2018</b> , 293, 190-197	4.4	7

213	The oximes HI-6 and MMB-4 fail to reactivate soman-inhibited human and guinea pig AChE: A kinetic in vitro study. <i>Toxicology Letters</i> , <b>2018</b> , 293, 216-221	4.4	4
212	Alteration of miRNA expression in a sulfur mustard resistant cell line. <i>Toxicology Letters</i> , <b>2018</b> , 293, 38-44	4.4	9
211	Effects of anti-inflammatory compounds on sulfur mustard injured cells: Recommendations and caveats suggested by in vitro cell culture models. <i>Toxicology Letters</i> , <b>2018</b> , 293, 91-97	4.4	7
210	Discovery of a potent non-oxime reactivator of nerve agent inhibited human acetylcholinesterase. <i>European Journal of Medicinal Chemistry</i> , <b>2018</b> , 157, 151-160	6.8	24
209	Sulfur mustard resistant keratinocytes obtained elevated glutathione levels and other changes in the antioxidative defense mechanism. <i>Toxicology Letters</i> , <b>2018</b> , 293, 51-61	4.4	7
208	Searching for putative binding sites of the bispyridinium compound MB327 in the nicotinic acetylcholine receptor. <i>Toxicology Letters</i> , <b>2018</b> , 293, 184-189	4.4	3
207	Electrophysiological investigation of the effect of structurally different bispyridinium non-oxime compounds on human $\alpha$ -nicotinic acetylcholine receptor activity-An in vitro structure-activity analysis. <i>Toxicology Letters</i> , <b>2018</b> , 293, 157-166	4.4	6
206	Human small bowel as a useful tool to investigate smooth muscle effects of potential therapeutics in organophosphate poisoning. <i>Toxicology Letters</i> , <b>2018</b> , 293, 235-240	4.4	1
205	Development of MS Binding Assays targeting the binding site of MB327 at the nicotinic acetylcholine receptor. <i>Toxicology Letters</i> , <b>2018</b> , 293, 172-183	4.4	11
204	Synthesis of a Series of Non-Symmetric Bispyridinium and Related Compounds and Their Affinity Characterization at the Nicotinic Acetylcholine Receptor. <i>ChemMedChem</i> , <b>2018</b> , 13, 2653-2663	3.7	2
203	Interactions between acetylcholinesterase, toxic organophosphorus compounds and a short series of structurally related non-oxime reactivators: Analysis of reactivation and inhibition kinetics in vitro. <i>Toxicology Letters</i> , <b>2018</b> , 299, 218-225	4.4	11
202	Innovative Biocatalysts as Tools to Detect and Inactivate Nerve Agents. <i>Scientific Reports</i> , <b>2018</b> , 8, 13773	4.9	12
201	Midazolam is effective to reduce cortical network activity in organotypic cultures during severe cholinergic overstimulation with soman. <i>Toxicology Letters</i> , <b>2018</b> , 297, 19-23	4.4	1
200	Novel cysteine- and albumin-adduct biomarkers to prove human poisoning with the pesticide oxydemeton-S-methyl. <i>Toxicology Letters</i> , <b>2018</b> , 294, 122-134	4.4	12
199	Synthesis of a Series of Structurally Diverse MB327 Derivatives and Their Affinity Characterization at the Nicotinic Acetylcholine Receptor. <i>ChemMedChem</i> , <b>2018</b> , 13, 1806-1816	3.7	3
198	Pseudocatalytic scavenging of the nerve agent VX with human blood components and the oximes obidoxime and HI-6. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 1309-1318	5.8	7
197	Identification of novel disulfide adducts between the thiol containing leaving group of the nerve agent VX and cysteine containing tripeptides derived from human serum albumin. <i>Drug Testing and Analysis</i> , <b>2017</b> , 9, 1192-1203	3.5	15
196	Application of the Ugi Multicomponent Reaction in the Synthesis of Reactivators of Nerve Agent Inhibited Acetylcholinesterase. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 9376-9392	8.3	14

195	Development of a sensitive, generic and easy to use organophosphate skin disclosure kit. <i>Toxicology Letters</i> , <b>2017</b> , 280, 190-194	4.4	4
194	Precision cut lung slices as test system for candidate therapeutics in organophosphate poisoning. <i>Toxicology</i> , <b>2017</b> , 389, 94-100	4.4	13
193	An Unusual Dimeric Inhibitor of Acetylcholinesterase: Cooperative Binding of Crystal Violet. <i>Molecules</i> , <b>2017</b> , 22,	4.8	4
192	Kinetics of pesticide degradation by human fresh frozen plasma (FFP) in vitro. <i>Toxicology Letters</i> , <b>2016</b> , 244, 124-128	4.4	5
191	Catalytic bioscavengers in nerve agent poisoning: A promising approach?. <i>Toxicology Letters</i> , <b>2016</b> , 244, 143-148	4.4	38
190	Repetitive obidoxime treatment induced increase of red blood cell acetylcholinesterase activity even in a late phase of a severe methamidophos poisoning: A case report. <i>Toxicology Letters</i> , <b>2016</b> , 244, 121-123	4.4	6
189	Investigation of the reactivation kinetics of a large series of bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase. <i>Toxicology Letters</i> , <b>2016</b> , 244, 136-142	4.4	36
188	Detoxification of VX and Other V-Type Nerve Agents in Water at 37 °C and pH 7.4 by Substituted Sulfonatocalix[4]arenes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12668-72	16.4	30
187	Blaptica dubia as sentinels for exposure to chemical warfare agents - a pilot study. <i>Toxicology Letters</i> , <b>2016</b> , 262, 12-16	4.4	4
186	Single treatment of VX poisoned guinea pigs with the phosphotriesterase mutant C23AL: Intraosseous versus intravenous injection. <i>Toxicology Letters</i> , <b>2016</b> , 258, 198-206	4.4	21
185	Entgiftung von VX und anderen V-Stoffen in Wasser bei 37 °C und pH 7.4 durch substituierte Sulfonatocalix[4]arene. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 12859-12863	3.6	5
184	An efficient thermostable organophosphate hydrolase and its application in pesticide decontamination. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 724-34	4.9	33
183	Functional analysis of Torpedo californica nicotinic acetylcholine receptors in multiple activation states by SSM-based electrophysiology. <i>Toxicology Letters</i> , <b>2016</b> , 247, 1-10	4.4	13
182	Anesthetic actions of thiopental remain largely unaffected during cholinergic overstimulation in cultured cortical networks. <i>Toxicology Letters</i> , <b>2016</b> , 244, 129-135	4.4	3
181	Kinetic analysis of interactions of amodiaquine with human cholinesterases and organophosphorus compounds. <i>Toxicology Letters</i> , <b>2016</b> , 246, 49-56	4.4	15
180	Self-regeneration of neuromuscular function following soman and VX poisoning in spinal cord-skeletal muscle cocultures. <i>Toxicology Letters</i> , <b>2016</b> , 244, 149-153	4.4	2
179	Catalytic efficiencies of directly evolved phosphotriesterase variants with structurally different organophosphorus compounds in vitro. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 2711-2724	5.8	35
178	Reversed-phase ion-pair chromatography-diode array detection of the bispyridinium compound MB327: plasma analysis of a potential novel antidote for the treatment of organophosphorus poisoning. <i>Drug Testing and Analysis</i> , <b>2016</b> , 8, 154-63	3.5	3

177	Toxicology of organophosphorus compounds in view of an increasing terrorist threat. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 2131-2145	5.8	62
176	Front Cover: Pathways for the Reactions Between Neurotoxic Organophosphorus Compounds and Oximes or Hydroxamic Acids (Eur. J. Org. Chem. 35/2016). <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 5777-5777	3.2	
175	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> , <b>2016</b> , 249, 22-8	4.4	19
174	Bispyridinium non-oximes: An evaluation of cardiac effects in isolated hearts and smooth muscle relaxing effects in jejunum. <i>Toxicology in Vitro</i> , <b>2016</b> , 35, 11-6	3.6	6
173	In vitro evaluation of the catalytic activity of paraoxonases and phosphotriesterases predicts the enzyme circulatory levels required for in vivo protection against organophosphate intoxications. <i>Chemico-Biological Interactions</i> , <b>2016</b> , 259, 252-256	5	15
172	Structure of a prereaction complex between the nerve agent sarin, its biological target acetylcholinesterase, and the antidote HI-6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 5514-9	11.5	39
171	Oximes in organophosphate poisoning: 60 years of hope and despair. <i>Chemico-Biological Interactions</i> , <b>2016</b> , 259, 93-98	5	96
170	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> , <b>2016</b> , 350-352, 25-30	4.4	11
169	Pathways for the Reactions Between Neurotoxic Organophosphorus Compounds and Oximes or Hydroxamic Acids. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 5831-5838	3.2	5
168	Modification of human serum albumin by the nerve agent VX: microbore liquid chromatography/electrospray ionization high-resolution time-of-flight tandem mass spectrometry method for detection of phosphorylated tyrosine and novel cysteine containing disulfide adducts. <i>Journal of Mass Spectrometry</i> , <b>2016</b> , 51, 2181-2190	2.2	20
167	Small-scale purification of butyrylcholinesterase from human plasma and implementation of a LC-UV/ESI MS/MS method to detect its organophosphorus adducts. <i>Drug Testing and Analysis</i> , <b>2015</b> , 7, 947-56	3.5	20
166	Elimination kinetics and molecular reaction mechanisms of cyclosarin (GF) by an oxime substituted Cyclodextrin derivative in vitro. <i>Toxicology Letters</i> , <b>2015</b> , 239, 41-52	4.4	12
165	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> , <b>2015</b> , 30, 514-20	3.6	2
164	Effect of reversible ligands on oxime-induced reactivation of sarin- and cyclosarin-inhibited human acetylcholinesterase. <i>Toxicology Letters</i> , <b>2015</b> , 232, 557-65	4.4	4
163	In vitro and in vivo toxicological studies of V nerve agents: molecular and stereoselective aspects. <i>Toxicology Letters</i> , <b>2015</b> , 232, 438-48	4.4	23
162	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> , <b>2015</b> , 29, 162-7	3.6	5
161	Reactivation kinetics of 31 structurally different bispyridinium oximes with organophosphate-inhibited human butyrylcholinesterase. <i>Archives of Toxicology</i> , <b>2015</b> , 89, 405-14	5.8	22
160	Bispyridinium Compounds Inhibit Both Muscle and Neuronal Nicotinic Acetylcholine Receptors in Human Cell Lines. <i>PLoS ONE</i> , <b>2015</b> , 10, e0135811	3.7	23



159	Toxicokinetic Aspects of Nerve Agents and Vesicants <b>2015</b> , 817-856		21
158	Detoxification of organophosphorus pesticides and nerve agents through RSDL: efficacy evaluation by (31)P NMR spectroscopy. <i>Toxicology Letters</i> , <b>2015</b> , 233, 207-13	4.4	24
157	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> , <b>2014</b> , 88, 1257-66	5.8	45
156	In vitro kinetics of nerve agent degradation by fresh frozen plasma (FFP). <i>Archives of Toxicology</i> , <b>2014</b> , 88, 301-7	5.8	14
155	In vitro toxicokinetic studies of cyclosarin: molecular mechanisms of elimination. <i>Toxicology Letters</i> , <b>2014</b> , 227, 1-11	4.4	11
154	Effectiveness of a substituted $\beta$ -cyclodextrin to prevent cyclosarin toxicity in vivo. <i>Toxicology Letters</i> , <b>2014</b> , 226, 222-7	4.4	21
153	Post-exposure treatment of VX poisoned guinea pigs with the engineered phosphotriesterase mutant C23: a proof-of-concept study. <i>Toxicology Letters</i> , <b>2014</b> , 231, 45-54	4.4	34
152	Reactions of methylphosphonic difluoride with human acetylcholinesterase and oximes--Possible therapeutic implications. <i>Toxicology Letters</i> , <b>2014</b> , 231, 92-8	4.4	1
151	Freeze-drying of HI-6-loaded recombinant human serum albumin nanoparticles for improved storage stability. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2014</b> , 88, 510-7	5.7	26
150	Detoxification of alkyl methylphosphonofluoridates by an oxime-substituted $\beta$ -cyclodextrin--an in vitro structure-activity study. <i>Toxicology Letters</i> , <b>2014</b> , 224, 209-14	4.4	23
149	Tabun scavengers based on hydroxamic acid containing cyclodextrins. <i>Chemical Communications</i> , <b>2013</b> , 49, 3425-7	5.8	30
148	Drug development for the management of organophosphorus poisoning. <i>Expert Opinion on Drug Discovery</i> , <b>2013</b> , 8, 1467-77	6.2	27
147	Investigations of kinetic interactions between lipid emulsions, hydroxyethyl starch or dextran and organophosphorus compounds. <i>Clinical Toxicology</i> , <b>2013</b> , 51, 918-22	2.9	6
146	Investigation of kinetic interactions between approved oximes and human acetylcholinesterase inhibited by pesticide carbamates. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 206, 569-72	5	13
145	Functionalized cyclodextrins bearing an alpha nucleophile--a promising way to degrade nerve agents. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 203, 202-7	5	22
144	Elimination pathways of cyclosarin (GF) mediated by $\beta$ -cyclodextrin in vitro: pharmacokinetic and toxicokinetic aspects. <i>Toxicology Letters</i> , <b>2013</b> , 222, 164-70	4.4	8
143	Limitations and challenges in treatment of acute chemical warfare agent poisoning. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 206, 435-43	5	108
142	Effect of MB327 and oximes on rat intestinal smooth muscle function. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 204, 1-5	5	14

141	Affinities of bispyridinium non-oxime compounds to [(3)H]epibatidine binding sites of <i>Torpedo californica</i> nicotinic acetylcholine receptors depend on linker length. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 206, 545-54	5	19
140	The value of novel oximes for treatment of poisoning by organophosphorus compounds. <i>Pharmacology &amp; Therapeutics</i> , <b>2013</b> , 139, 249-59	13.9	117
139	Structural requirements for effective oximes--evaluation of kinetic in vitro data with phosphorylated human AChE and structurally different oximes. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 203, 125-8	5	16
138	New modified $\beta$ -cyclodextrin derivatives as detoxifying agents of chemical warfare agents (II). In vitro detoxification of cyclosarin (GF): general screening and toxicokinetic aspects of OP scavengers. <i>Toxicology Letters</i> , <b>2013</b> , 216, 206-12	4.4	18
137	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. <i>Toxicology Letters</i> , <b>2013</b> , 216, 200-5	4.4	27
136	Reactivation of plasma butyrylcholinesterase by pralidoxime chloride in patients poisoned by WHO class II toxicity organophosphorus insecticides. <i>Toxicological Sciences</i> , <b>2013</b> , 136, 274-83	4.4	16
135	Reactivation kinetics of a series of related bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase--Structure-activity relationships. <i>Biochemical Pharmacology</i> , <b>2012</b> , 83, 1700-6	6	46
134	Restoration of soman-blocked neuromuscular transmission in human and rat muscle by the bispyridinium non-oxime MB327 in vitro. <i>Toxicology</i> , <b>2012</b> , 294, 80-4	4.4	36
133	A role for solvents in the toxicity of agricultural organophosphorus pesticides. <i>Toxicology</i> , <b>2012</b> , 294, 94-103	4.4	85
132	Detoxification of tabun at physiological pH mediated by substituted $\beta$ -cyclodextrin and glucose derivatives containing oxime groups. <i>Toxicology</i> , <b>2012</b> , 302, 163-71	4.4	20
131	Comparative kinetics of organophosphates and oximes with erythrocyte, muscle and brain acetylcholinesterase. <i>Toxicology Letters</i> , <b>2012</b> , 209, 173-8	4.4	17
130	Kinetic interactions of a homologous series of bispyridinium monooximes (HGG oximes) with native and phosphorylated human acetylcholinesterase. <i>Toxicology Letters</i> , <b>2012</b> , 212, 29-32	4.4	10
129	Uptake mechanism of ApoE-modified nanoparticles on brain capillary endothelial cells as a blood-brain barrier model. <i>PLoS ONE</i> , <b>2012</b> , 7, e32568	3.7	167
128	Reactivation kinetics of a homologous series of bispyridinium bis-oximes with nerve agent-inhibited human acetylcholinesterase. <i>Archives of Toxicology</i> , <b>2012</b> , 86, 1379-86	5.8	28
127	Determination of acetylcholinesterase activity by the Ellman assay: a versatile tool for in vitro research on medical countermeasures against organophosphate poisoning. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 282-91	3.5	69
126	Application of an enantioselective LC-ESI MS/MS procedure to determine R- and S-hyoscyamine following intravenous atropine administration in swine. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 194-8	3.5	8
125	Quantification of pralidoxime (2-PAM) in urine by ion pair chromatography-diode array detection: application to in vivo samples from minipig. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 169-78	3.5	6
124	Photostability of antidotal oxime HI-6, impact on drug development. <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 208-14	3.5	1



123	Competition radioligand binding assays for the investigation of bispyridinium compound affinities to the human muscarinic acetylcholine receptor subtype 5 (hM5). <i>Drug Testing and Analysis</i> , <b>2012</b> , 4, 292-7	3.5	16
122	Detoxification of G- and V-series nerve agents by the phosphotriesterase OpdA. <i>Biocatalysis and Biotransformation</i> , <b>2012</b> , 30, 203-208	2.5	11
121	Chemische Kampfstoffe <b>2011</b> , 201-233		1
120	Kinetic prerequisites of oximes as effective reactivators of organophosphate-inhibited acetylcholinesterase: a theoretical approach. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2011</b> , 26, 303-8	5.6	6
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