

Patrick Ym Masson

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.

296
papers

10,267
citations

52
h-index

87
g-index

321
ext. papers

11,075
ext. citations

4.5
avg, IF

6.08
L-index

#	Paper	IF	Citations
296	Steady-state kinetic analysis of human cholinesterases over wide concentration ranges of competing substrates. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2022 , 1870, 140733	4	0
295	Kinetic Processes in Enzymatic Nanoreactors for In Vivo Detoxification.. <i>Biomedicines</i> , 2022 , 10,	4.8	2
294	Enzyme Nanoreactor for Detoxification of Organophosphates.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
293	Organophosphorus poisoning in animals and enzymatic antidotes. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 25081-25106	5.1	9
292	Protective effects of m-(tert-butyl) trifluoroacetophenone, a transition state analogue of acetylcholine, against paraoxon toxicity and memory impairments. <i>Chemico-Biological Interactions</i> , 2021 , 345, 109558	5	0
291	Therapeutic nanoreactors for detoxification of xenobiotics: Concepts, challenges and biotechnological trends with special emphasis to organophosphate bioscavenging. <i>Chemico-Biological Interactions</i> , 2021 , 346, 109577	5	5
290	Etocopherol, a slow-binding inhibitor of acetylcholinesterase. <i>Chemico-Biological Interactions</i> , 2021 , 348, 109646	5	0
289	Steady-State Kinetics of Enzyme-Catalyzed Hydrolysis of Echothiophate, a P-S Bonded Organophosphorus as Monitored by Spectrofluorimetry. <i>Molecules</i> , 2020 , 25,	4.8	5
288	Catalytic bioscavengers: the second generation of bioscavenger-based medical countermeasures 2020 , 1199-1229		
287	Study and modeling of mechanisms of cholinesterasis reactions in order to improve their catalytic properties in the neutralization reactions of organophosphorous compounds 2020 , 134-174		
286	Research on cholinesterases in the Soviet Union and Russia 2020 , 35-43		
285	Study and modeling of mechanisms of cholinesterasis reactions in order to improve their catalytic properties in the neutralization reactions of organophosphorus compounds 2020 , 140-180		
284	Research on cholinesterases in the Soviet Union and Russia 2020 , 29-37		
283	Human cholinesterases 2020 , 69-126		
282	ORGANOPHOSPHORUS NEUROTOXINS 2020 ,		5
281	Slow-binding reversible inhibitor of acetylcholinesterase with long-lasting action for prophylaxis of organophosphate poisoning. <i>Scientific Reports</i> , 2020 , 10, 16611	4.9	6
280	1-(3--Butylphenyl)-2,2,2-Trifluoroethanone as a Potent Transition-State Analogue Slow-Binding Inhibitor of Human Acetylcholinesterase: Kinetic, MD and QM/MM Studies. <i>Biomolecules</i> , 2020 , 10,	5.9	3

279	Slow-binding inhibitors of acetylcholinesterase of medical interest. <i>Neuropharmacology</i> , 2020 , 177, 108236	3.6	10
278	Impact of Sucrose as Osmolyte on Molecular Dynamics of Mouse Acetylcholinesterase. <i>Biomolecules</i> , 2020 , 10,	5.9	1
277	A new sensitive spectrofluorimetric method for measurement of activity and kinetic study of cholinesterases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020 , 1868, 140270	4	5
276	6-Methyluracil derivatives as peripheral site ligand-hydroxamic acid conjugates: Reactivation for paraoxon-inhibited acetylcholinesterase. <i>European Journal of Medicinal Chemistry</i> , 2020 , 185, 111787	6.8	5
275	New evidence for dual binding site inhibitors of acetylcholinesterase as improved drugs for treatment of Alzheimer's disease. <i>Neuropharmacology</i> , 2019 , 155, 131-141	5.5	46
274	Preparation of multi-allylic dendronized polymers via atom-transfer radical polymerization. <i>European Polymer Journal</i> , 2019 , 118, 358-364	5.2	1
273	The four-helix bundle in cholinesterase dimers: Structural and energetic determinants of stability. <i>Chemico-Biological Interactions</i> , 2019 , 309, 108699	5	2
272	Time-course of enzyme-catalyzed competing substrate degradation for michaelian behavior and for enzymes showing activation/inhibition by excess substrate. <i>Chemico-Biological Interactions</i> , 2019 , 309, 108704	5	4
271	How alkali-activated Ti surfaces affect the growth of tethered PMMA chains: a close-up study on the PMMA thickness and surface morphology. <i>Pure and Applied Chemistry</i> , 2019 , 91, 1687-1694	2.1	3
270	Time-course of human cholinesterases-catalyzed competing substrate kinetics. <i>Chemico-Biological Interactions</i> , 2019 , 310, 108702	5	7
269	Computer-designed active human butyrylcholinesterase double mutant with a new catalytic triad. <i>Chemico-Biological Interactions</i> , 2019 , 306, 138-146	5	30
268	Structural stability of human butyrylcholinesterase under high hydrostatic pressure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 107-113	4	2
267	Blockade of Metabotropic GABA-B Receptors as an Approach to Reduce Toxic Peripheral Effects of Cholinesterase Inhibitors. <i>BioNanoScience</i> , 2019 , 9, 38-43	3.4	2
266	3D structure of the natural tetrameric form of human butyrylcholinesterase as revealed by cryoEM, SAXS and MD. <i>Biochimie</i> , 2019 , 156, 196-205	4.6	15
265	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5967-5977	9.5	13
264	C-547, a 6-methyluracil derivative with long-lasting binding and rebinding on acetylcholinesterase: Pharmacokinetic and pharmacodynamic studies. <i>Neuropharmacology</i> , 2018 , 131, 304-315	5.5	7
263	Analysis of Apparent Catalytic Parameters of Multiple Molecular Forms of Human Plasma Butyrylcholinesterase by Activity Gel-Scanning Following Non-denaturing Electrophoresis. <i>BioNanoScience</i> , 2018 , 8, 367-372	3.4	
262	Catalytic bioscavengers against organophosphorus agents: mechanistic issues of self-reactivating cholinesterases. <i>Toxicology</i> , 2018 , 409, 91-102	4.4	10

261	Optimization of Cholinesterase-Based Catalytic Bioscavengers Against Organophosphorus Agents. <i>Frontiers in Pharmacology</i> , 2018 , 9, 211	5.6	52
260	Autoregulation of Acetylcholine Release and Micro-Pharmacodynamic Mechanisms at Neuromuscular Junction: Selective Acetylcholinesterase Inhibitors for Therapy of Myasthenic Syndromes. <i>Frontiers in Pharmacology</i> , 2018 , 9, 766	5.6	7
259	Mixed cationic liposomes for brain delivery of drugs by the intranasal route: The acetylcholinesterase reactivator 2-PAM as encapsulated drug model. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 171, 358-367	6	39
258	Combination delivery of two oxime-loaded lipid nanoparticles: Time-dependent additive action for prolonged rat brain protection. <i>Journal of Controlled Release</i> , 2018 , 290, 102-111	11.7	22
257	Purification of recombinant human butyrylcholinesterase on Hupresin [®] . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1102-1103, 109-115 ³⁻²	3.2	5
256	Water structure changes in oxime-mediated reactivation process of phosphorylated human acetylcholinesterase. <i>Bioscience Reports</i> , 2018 , 38,	4.1	3
255	Characterization of butyrylcholinesterase in bovine serum. <i>Chemico-Biological Interactions</i> , 2017 , 266, 17-27	5	15
254	Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2550-2555	11.5	124
253	Nanoparticle-Delivered 2-PAM for Rat Brain Protection against Paraoxon Central Toxicity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16922-16932	9.5	34
252	Cholinesterase reactivators and bioscavengers for pre- and post-exposure treatments of organophosphorus poisoning. <i>Journal of Neurochemistry</i> , 2017 , 142 Suppl 2, 26-40	6	96
251	The ins and outs of eukaryotic viruses: Knowledge base and ontology of a viral infection. <i>PLoS ONE</i> , 2017 , 12, e0171746	3.7	4
250	Application of Tetrameric Recombinant Human Butyrylcholinesterase as a Biopharmaceutical for Amelioration of Symptoms of Acute Organophosphate Poisoning. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 163, 430-435	0.8	3
249	Computational Exploration of Reactivity of 6-Methyluracil/Imidazole-2-Carbaldehyde Oxime Conjugate. <i>BioNanoScience</i> , 2017 , 7, 229-232	3.4	3
248	Role of Acetylcholinesterase in β Amyloid Aggregation Studied by Accelerated Molecular Dynamics. <i>BioNanoScience</i> , 2017 , 7, 396-402	3.4	16
247	The C5 Variant of the Butyrylcholinesterase Tetramer Includes a Noncovalently Bound 60 kDa Lamellipodin Fragment. <i>Molecules</i> , 2017 , 22,	4.8	12
246	Bacterial Virus Ontology; Coordinating across Databases. <i>Viruses</i> , 2017 , 9,	6.2	2
245	Novel approaches in prophylaxis/pretreatment and treatment of organophosphorus poisoning. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016 , 191, 1433-1443	1	14
244	Understanding the non-catalytic behavior of human butyrylcholinesterase silent variants: Comparison of wild-type enzyme, catalytically active Ala328Cys mutant, and silent Ala328Asp variant. <i>Chemico-Biological Interactions</i> , 2016 , 259, 223-232	5	7

243	Slow-binding inhibition of cholinesterases, pharmacological and toxicological relevance. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 593, 60-8	4.1	23
242	Assessing Gravitropic Responses in Arabidopsis. <i>Methods in Molecular Biology</i> , 2016 , 1398, 11-20	1.4	
241	Emergence of catalytic bioscavengers against organophosphorus agents. <i>Chemico-Biological Interactions</i> , 2016 , 259, 319-326	5	30
240	Monoclonal antibodies to human butyrylcholinesterase reactive with butyrylcholinesterase in animal plasma. <i>Chemico-Biological Interactions</i> , 2016 , 243, 82-90	5	10
239	Current and emerging strategies for organophosphate decontamination: special focus on hyperstable enzymes. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 8200-18	5.1	61
238	Luminescent silica nanoparticles for sensing acetylcholinesterase-catalyzed hydrolysis of acetylcholine. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 871-8	11.8	13
237	CHAPTER 2:Nerve Agents: Catalytic Scavengers as an Alternative Approach for Medical Countermeasures. <i>Issues in Toxicology</i> , 2016 , 43-81	0.3	5
236	Improving HIV proteome annotation: new features of BioAfrica HIV Proteomics Resource. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016,	5	7
235	Molecular polymorphism of human enzymes as the basis of individual sensitivity to drugs. Supercomputer-assisted modeling as a tool for analysis of structural changes and enzymatic activity of proteins. <i>Russian Chemical Bulletin</i> , 2016 , 65, 1592-1607	1.7	6
234	Sensing activity of cholinesterases through a luminescence response of the hexarhenium cluster complex $[\text{Re}_6\text{S}_8(\text{OH})_6](4.)$. <i>Analyst, The</i> , 2016 , 141, 4204-10	5	16
233	Dynamics of human acetylcholinesterase bound to non-covalent and covalent inhibitors shedding light on changes to the water network structure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12992-3001	3.6	25
232	Slow-binding inhibition of acetylcholinesterase by an alkylammonium derivative of 6-methyluracil: mechanism and possible advantages for myasthenia gravis treatment. <i>Biochemical Journal</i> , 2016 , 473, 1225-36	3.8	33
231	A structured annotation frame for the transposable phages: a new proposed family "Saltoviridae" within the Caudovirales. <i>Virology</i> , 2015 , 477, 155-163	3.6	24
230	A novel expression cassette delivers efficient production of exclusively tetrameric human butyrylcholinesterase with improved pharmacokinetics for protection against organophosphate poisoning. <i>Biochimie</i> , 2015 , 118, 51-9	4.6	23
229	Comparison of 5 monoclonal antibodies for immunopurification of human butyrylcholinesterase on Dynabeads: KD values, binding pairs, and amino acid sequences. <i>Chemico-Biological Interactions</i> , 2015 , 240, 336-45	5	17
228	Pressure-induced molten globule state of human acetylcholinesterase: structural and dynamical changes monitored by neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3157-63	3.6	23
227	6-Methyluracil derivatives as acetylcholinesterase inhibitors for treatment of Alzheimer's disease. <i>International Journal of Risk and Safety in Medicine</i> , 2015 , 27 Suppl 1, S69-71	1.6	6
226	6-Methyluracil Derivatives as Bifunctional Acetylcholinesterase Inhibitors for the Treatment of Alzheimer's Disease. <i>ChemMedChem</i> , 2015 , 10, 1863-74	3.7	25

225	Molecular modeling of mechanism of action of anti-myasthenia gravis slow-binding inhibitor of acetylcholinesterase. <i>International Journal of Risk and Safety in Medicine</i> , 2015 , 27 Suppl 1, S74-5	1.6	
224	Catalytic Bioscavengers 2015 , 1107-1123		5
223	Human butyrylcholinesterase polymorphism: Molecular modeling. <i>International Journal of Risk and Safety in Medicine</i> , 2015 , 27 Suppl 1, S80-1	1.6	2
222	Biomarkers of Exposure to Organophosphorus Poisons: A New Motif for Covalent Binding to Tyrosine in Proteins That Have No Active Site Serine 2015 , 953-965		1
221	Chemical Polysialylation and In Vivo Tetramerization Improve Pharmacokinetic Characteristics of Recombinant Human Butyrylcholinesterase-Based Bioscavengers. <i>Acta Naturae</i> , 2015 , 7, 136-141	2.1	11
220	Molecular modeling evidence for His438 flip in the mechanism of butyrylcholinesterase hysteretic behavior. <i>Journal of Molecular Neuroscience</i> , 2014 , 52, 434-45	3.3	13
219	Correlation of the dynamics of native human acetylcholinesterase and its inhibited huperzine A counterpart from sub-picoseconds to nanoseconds. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140372	4.1	15
218	Macrocyclic derivatives of 6-methyluracil as ligands of the peripheral anionic site of acetylcholinesterase. <i>MedChemComm</i> , 2014 , 5, 1729-1735	5	9
217	Characterization of a novel butyrylcholinesterase point mutation (p.Ala34Val), "silent" with mivacurium. <i>Biochemical Pharmacology</i> , 2014 , 92, 476-83	6	23
216	Detection of cresyl phosphate-modified butyrylcholinesterase in human plasma for chemical exposure associated with aerotoxic syndrome. <i>Analytical Biochemistry</i> , 2014 , 461, 17-26	3.1	16
215	Effect of covalent grafting on mechanical properties of TiO ₂ /polystyrene composites. <i>Materials Chemistry and Physics</i> , 2014 , 147, 261-267	4.4	12
214	The VASCULATURE COMPLEXITY AND CONNECTIVITY gene encodes a plant-specific protein required for embryo provasculature development. <i>Plant Physiology</i> , 2014 , 166, 889-902	6.6	13
213	Characterization of a novel BCHE "silent" allele: point mutation (p.Val204Asp) causes loss of activity and prolonged apnea with suxamethonium. <i>PLoS ONE</i> , 2014 , 9, e101552	3.7	26
212	An integrated ontology resource to explore and study host-virus relationships. <i>PLoS ONE</i> , 2014 , 9, e108075	3.7	12
211	Progress in the development of enzyme-based nerve agent bioscavengers. <i>Chemico-Biological Interactions</i> , 2013 , 206, 536-44	5	122
210	PHOS-select iron affinity beads enrich peptides for the detection of organophosphorus adducts on albumin. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1917-25	4	9
209	Molecular modeling of butyrylcholinesterase inhibition by cresyl saligenin phosphate. <i>Russian Chemical Bulletin</i> , 2013 , 62, 2527-2537	1.7	17
208	Effects of viscosity and osmotic stress on the reaction of human butyrylcholinesterase with cresyl saligenin phosphate, a toxicant related to aerotoxic syndrome: kinetic and molecular dynamics studies. <i>Biochemical Journal</i> , 2013 , 454, 387-99	3.8	42

207	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1243-8	11.5	69
206	Relation between dynamics, activity and thermal stability within the cholinesterase family. <i>Chemico-Biological Interactions</i> , 2013 , 203, 14-8	5	7
205	Research on cholinesterases in the Soviet Union and Russia: a historical perspective. <i>Chemico-Biological Interactions</i> , 2013 , 203, 3-9	5	10
204	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013 , 203, 196-201	5	20
203	Inhibition pathways of the potent organophosphate CBDP with cholinesterases revealed by X-ray crystallographic snapshots and mass spectrometry. <i>Chemical Research in Toxicology</i> , 2013 , 26, 280-9	4	29
202	Mass spectrometry method to identify aging pathways of Sp- and Rp-tabun adducts on human butyrylcholinesterase based on the acid labile P-N bond. <i>Toxicological Sciences</i> , 2013 , 132, 390-8	4.4	15
201	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of titanium oxide-enriched peptides for detection of aged organophosphorus adducts on human butyrylcholinesterase. <i>Analytical Biochemistry</i> , 2013 , 439, 132-41	3.1	18
200	Enhancement of styrene conversion in organic/inorganic hybrid materials by using malononitrile in controlled radical polymerization. <i>Polymer International</i> , 2013 , 62, 878-883	3.3	12
199	Polyclonal antibody to soman-tyrosine. <i>Chemical Research in Toxicology</i> , 2013 , 26, 584-92	4	9
198	ViralZone: recent updates to the virus knowledge resource. <i>Nucleic Acids Research</i> , 2013 , 41, D579-83	20.1	36
197	Recombinant Human Butyrylcholinesterase As a New-Age Bioscavenger Drug: Development of the Expression System. <i>Acta Naturae</i> , 2013 , 5, 73-84	2.1	15
196	Energy landscapes of human acetylcholinesterase and its Huperzine A-inhibited counterpart. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 14744-53	3.4	16
195	Activity and molecular dynamics relationship within the family of human cholinesterases. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6764-70	3.6	18
194	Effects of hydrostatic pressure on the quaternary structure and enzymatic activity of a large peptidase complex from <i>Pyrococcus horikoshii</i> . <i>Archives of Biochemistry and Biophysics</i> , 2012 , 517, 104-10 ¹	4.1	22
193	Time-dependent kinetic complexities in cholinesterase-catalyzed reactions. <i>Biochemistry (Moscow)</i> , 2012 , 77, 1147-61	2.9	15
192	Differential sensitivity of plasma carboxylesterase-null mice to parathion, chlorpyrifos and chlorpyrifos oxon, but not to diazinon, dichlorvos, diisopropylfluorophosphate, cresyl saligenin phosphate, cyclosarin thiocholine, tabun thiocholine, and carbofuran. <i>Chemico-Biological Interactions</i> , 2012 , 195, 189-98	5	25
191	Insights into the regenerative property of plant cells and their receptivity to transgenesis: wheat as a research case study. <i>Plant Signaling and Behavior</i> , 2012 , 7, 1608-20	2.5	18
190	Endogenous human plasma catalytic bioscavengers for organophosphorus compounds do not protect against the toxicity of chemicals implicated in aerotoxic syndrome: an in vitro study. <i>Journal of Biological Physics and Chemistry</i> , 2012 , 12, 89-97	2	6

189	Les protéines DING : propriétés biochimiques, structurales, et capacité d'inhiber la répllication du virus VIH-1. <i>Bulletin De LiAcademie Nationale De Medecine</i> , 2012 , 196, 693-704	0.1	
188	Reaction of cresyl saligenin phosphate, the organophosphorus agent implicated in aerotoxic syndrome, with human cholinesterases: mechanistic studies employing kinetics, mass spectrometry, and X-ray structure analysis. <i>Chemical Research in Toxicology</i> , 2011 , 24, 797-808	4	53
187	Dendronized Polymers with Peripheral Oligo(ethylene oxide) Chains: Thermoresponsive Behavior and Shape Anisotropy in Solution. <i>Macromolecules</i> , 2011 , 44, 8925-8935	5.5	50
186	Evolution of and perspectives on therapeutic approaches to nerve agent poisoning. <i>Toxicology Letters</i> , 2011 , 206, 5-13	4.4	73
185	Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. <i>Toxicology Letters</i> , 2011 , 206, 14-23	4.4	47
184	Structural study of the complex stereoselectivity of human butyrylcholinesterase for the neurotoxic V-agents. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16783-9	5.4	35
183	Exposure to tri-o-cresyl phosphate detected in jet airplane passengers. <i>Toxicology and Applied Pharmacology</i> , 2011 , 256, 337-47	4.6	51
182	Human-Phosphate-Binding-Protein inhibits HIV-1 gene transcription and replication. <i>Virology Journal</i> , 2011 , 8, 352	6.1	16
181	Butyrylcholinesterase: Overview, Structure, and Function 2011 , 25-41		4
180	X-ray crystallographic snapshots of reaction intermediates in the G117H mutant of human butyrylcholinesterase, a nerve agent target engineered into a catalytic bioscavenger. <i>Biochemical Journal</i> , 2011 , 434, 73-82	3.8	39
179	ViralZone: a knowledge resource to understand virus diversity. <i>Nucleic Acids Research</i> , 2011 , 39, D576-82	20.1	216
178	Reactibodies generated by kinetic selection couple chemical reactivity with favorable protein dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15954-9	11.5	39
177	Paraoxonase-1 and its Interactions with HDL: Molecular Structures of PON1 and HDL 2010 , 99-131		0
176	Detection of adduct on tyrosine 411 of albumin in humans poisoned by dichlorvos. <i>Toxicological Sciences</i> , 2010 , 116, 23-31	4.4	42
175	Accumulation of tetrahedral intermediates in cholinesterase catalysis: a secondary isotope effect study. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17751-9	16.4	22
174	Butyrylcholinesterase for protection from organophosphorus poisons: catalytic complexities and hysteretic behavior. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 494, 107-20	4.1	161
173	Structural evidence that human acetylcholinesterase inhibited by tabun ages through O-dealkylation. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 4002-8	8.3	80
172	Mass spectral characterization of organophosphate-labeled, tyrosine-containing peptides: characteristic mass fragments and a new binding motif for organophosphates. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 878, 1297-311	3.2	51

171	Application of laccase-mediator system (LMS) for the degradation of organophosphorus compounds. <i>Chemico-Biological Interactions</i> , 2010 , 187, 393-6	5	19
170	Preparation and characterization of methoxy polyethylene glycol-conjugated phosphotriesterase as a potential catalytic bioscavenger against organophosphate poisoning. <i>Chemico-Biological Interactions</i> , 2010 , 187, 380-3	5	18
169	Structural approach to the aging of phosphylated cholinesterases. <i>Chemico-Biological Interactions</i> , 2010 , 187, 157-62	5	57
168	Aging mechanism of butyrylcholinesterase inhibited by an N-methyl analogue of tabun: implications of the trigonal-bipyramidal transition state rearrangement for the phosphorylation or reactivation of cholinesterases. <i>Chemico-Biological Interactions</i> , 2010 , 187, 44-8	5	18
167	Dichlorvos, chlorpyrifos oxon and Aldicarb adducts of butyrylcholinesterase, detected by mass spectrometry in human plasma following deliberate overdose. <i>Journal of Applied Toxicology</i> , 2010 , 30, 559-65	4.1	28
166	Integrative analytical approach by capillary electrophoresis and kinetics under high pressure optimized for deciphering intrinsic and extrinsic cofactors that modulate activity and stability of human paraoxonase (PON1). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 876, 13-16-55	3.2	12
165	Structure-activity analysis of aging and reactivation of human butyrylcholinesterase inhibited by analogues of tabun. <i>Biochemical Journal</i> , 2009 , 421, 97-106	3.8	56
164	Characterization of a REG/PA28 proteasome activator homolog in Dictyostelium discoideum indicates that the ubiquitin- and ATP-independent REGgamma proteasome is an ancient nuclear protease. <i>Eukaryotic Cell</i> , 2009 , 8, 844-51		13
163	Tyrosines of human and mouse transferrin covalently labeled by organophosphorus agents: a new motif for binding to proteins that have no active site serine. <i>Toxicological Sciences</i> , 2009 , 107, 144-55	4.4	28
162	Biomarkers of Exposure to Organophosphorus Poisons 2009 , 847-858		3
161	Carbofuran poisoning detected by mass spectrometry of butyrylcholinesterase adduct in human serum. <i>Journal of Applied Toxicology</i> , 2009 , 29, 149-55	4.1	34
160	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon Sulfolobus solfataricus. <i>Extremophiles</i> , 2009 , 13, 461-70	3	50
159	Exploring the structural and functional stabilities of different paraoxonase-1 formulations through electrophoretic mobilities and enzyme activity parameters under hydrostatic pressure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 680-8	4	10
158	Direct correlation between molecular dynamics and enzymatic stability: a comparative neutron scattering study of native human butyrylcholinesterase and its "aged" soman conjugate. <i>Biophysical Journal</i> , 2009 , 96, 1489-94	2.9	8
157	Regioselective access to 3I-O-substituted-beta-cyclodextrin derivatives. <i>Chemical Communications</i> , 2009 , 589-91	5.8	26
156	Crystallographic snapshots of nonaged and aged conjugates of soman with acetylcholinesterase, and of a ternary complex of the aged conjugate with pralidoxime. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 7593-603	8.3	73
155	Update on biochemical properties of recombinant Pseudomonas diminuta phosphotriesterase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24, 1045-55	5.6	19
154	Structure, activities and biomedical applications of human butyrylcholinesterase. <i>Protein and Peptide Letters</i> , 2009 , 16, 1215-24	1.9	57

153	Catalytic bioscavengers against toxic esters, an alternative approach for prophylaxis and treatments of poisonings. <i>Acta Naturae</i> , 2009 , 1, 68-79	2.1	8
152	Catalytic Bioscavengers Against Toxic Esters, an Alternative Approach for Prophylaxis and Treatments of Poisonings. <i>Acta Naturae</i> , 2009 , 1, 68-79	2.1	27
151	Catalytic Bioscavengers: The Next Generation of Bioscavenger-Based Medical Countermeasures 2009 , 1053-1065		9
150	A collaborative endeavor to design cholinesterase-based catalytic scavengers against toxic organophosphorus esters. <i>Chemico-Biological Interactions</i> , 2008 , 175, 273-80	5	56
149	Mass spectrometry identifies covalent binding of soman, sarin, chlorpyrifos oxon, diisopropyl fluorophosphate, and FP-biotin to tyrosines on tubulin: a potential mechanism of long term toxicity by organophosphorus agents. <i>Chemico-Biological Interactions</i> , 2008 , 175, 180-6	5	61
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