

# Patrick Ym Masson

## List of Publications by Year in descending order

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305  
papers

12,030  
citations

28736

57  
h-index

49824

91  
g-index

321  
all docs

321  
docs citations

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times ranked

9918  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.1	4
2	Kinetic Processes in Enzymatic Nanoreactors for In Vivo Detoxification. <i>Biomedicines</i> , 2022, 10, 784.	1.4	6
3	Enzyme Nanoreactor for <i>In Vivo</i> Detoxification of Organophosphates. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .	4.0	9
4	Organophosphorus poisoning in animals and enzymatic antidotes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25081-25106.	2.7	17
5	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.	1.7	2
6	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.	1.7	10
7	Î±-tocopherol, a slow-binding inhibitor of acetylcholinesterase. <i>Chemico-Biological Interactions</i> , 2021, 348, 109646.	1.7	4
8	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.	1.1	9
9	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.	2.6	9
10	Slow-binding reversible inhibitor of acetylcholinesterase with long-lasting action for prophylaxis of organophosphate poisoning. <i>Scientific Reports</i> , 2020, 10, 16611.	1.6	14
11	1-(3-Tert-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, 1608.	1.8	8
12	Slow-binding inhibitors of acetylcholinesterase of medical interest. <i>Neuropharmacology</i> , 2020, 177, 108236.	2.0	19
13	Impact of Sucrose as Osmolyte on Molecular Dynamics of Mouse Acetylcholinesterase. <i>Biomolecules</i> , 2020, 10, 1664.	1.8	10
14	Steady-State Kinetics of Enzyme-Catalyzed Hydrolysis of Echothiophate, a P=S Bonded Organophosphorus as Monitored by Spectrofluorimetry. <i>Molecules</i> , 2020, 25, 1371.	1.7	7
15	Catalytic bioscavengers: the second generation of bioscavenger-based medical countermeasures. , 2020, , 1199-1229.		0
16	ORGANOPHOSPHORUS NEUROTOXINS. , 2020, , .		10
17	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.		0
18	Research on cholinesterases in the Soviet Union and Russia. , 2020, , 35-43.		0

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19	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.		0
20	Research on cholinesterases in the Soviet Union and Russia. , 2020, , 29-37.		0
21	Human cholinesterases. , 2020, , 69-126.		1
22	New evidence for dual binding site inhibitors of acetylcholinesterase as improved drugs for treatment of Alzheimer's disease. Neuropharmacology, 2019, 155, 131-141.	2.0	67
23	Preparation of multi-allylic dendronized polymers via atom-transfer radical polymerization. European Polymer Journal, 2019, 118, 358-364.	2.6	3
24	The four-helix bundle in cholinesterase dimers: Structural and energetic determinants of stability. Chemico-Biological Interactions, 2019, 309, 108699.	1.7	4
25	Time-course of enzyme-catalyzed competing substrate degradation for michaelian behavior and for enzymes showing activation/inhibition by excess substrate. Chemico-Biological Interactions, 2019, 309, 108704.	1.7	9
26	How alkali-activated Ti surfaces affect the growth of tethered PMMA chains: a close-up study on the PMMA thickness and surface morphology. Pure and Applied Chemistry, 2019, 91, 1687-1694.	0.9	6
27	Time-course of human cholinesterases-catalyzed competing substrate kinetics. Chemico-Biological Interactions, 2019, 310, 108702.	1.7	10
28	Computer-designed active human butyrylcholinesterase double mutant with a new catalytic triad. Chemico-Biological Interactions, 2019, 306, 138-146.	1.7	31
29	Structural stability of human butyrylcholinesterase under high hydrostatic pressure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 107-113.	1.1	3
30	Blockade of Metabotropic GABA-B Receptors as an Approach to Reduce Toxic Peripheral Effects of Cholinesterase Inhibitors. BioNanoScience, 2019, 9, 38-43.	1.5	2
31	3D structure of the natural tetrameric form of human butyrylcholinesterase as revealed by cryoEM, SAXS and MD. Biochimie, 2019, 156, 196-205.	1.3	26
32	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. ACS Applied Materials & Interfaces, 2018, 10, 5967-5977.	4.0	26
33	C-547, a 6-methyluracil derivative with long-lasting binding and rebinding on acetylcholinesterase: Pharmacokinetic and pharmacodynamic studies. Neuropharmacology, 2018, 131, 304-315.	2.0	11
34	Analysis of Apparent Catalytic Parameters of Multiple Molecular Forms of Human Plasma Butyrylcholinesterase by Activity Gel-Scanning Following Non-denaturing Electrophoresis. BioNanoScience, 2018, 8, 367-372.	1.5	0
35	Combination delivery of two oxime-loaded lipid nanoparticles: Time-dependent additive action for prolonged rat brain protection. Journal of Controlled Release, 2018, 290, 102-111.	4.8	28
36	Purification of recombinant human butyrylcholinesterase on Hupresin®. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1102-1103, 109-115.	1.2	9

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37	Water structure changes in oxime-mediated reactivation process of phosphorylated human acetylcholinesterase. <i>Bioscience Reports</i> , 2018, 38, .	1.1	6
38	Catalytic bioscavengers against organophosphorus agents: mechanistic issues of self-reactivating cholinesterases. <i>Toxicology</i> , 2018, 409, 91-102.	2.0	12
39	Optimization of Cholinesterase-Based Catalytic Bioscavengers Against Organophosphorus Agents. <i>Frontiers in Pharmacology</i> , 2018, 9, 211.	1.6	59
40	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.	1.6	12
41	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.	2.5	64
42	Characterization of butyrylcholinesterase in bovine serum. <i>Chemico-Biological Interactions</i> , 2017, 266, 17-27.	1.7	19
43	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.	3.3	182
44	Nanoparticle-Delivered 2-PAM for Rat Brain Protection against Paraoxon Central Toxicity. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16922-16932.	4.0	46
45	Cholinesterase reactivators and bioscavengers for pre- and post-exposure treatments of organophosphorus poisoning. <i>Journal of Neurochemistry</i> , 2017, 142, 26-40.	2.1	113
46	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.	0.3	4
47	Computational Exploration of Reactivity of 6-Methyluracil/Imidazole-2-Carbaldehyde Oxime Conjugate. <i>BioNanoScience</i> , 2017, 7, 229-232.	1.5	3
48	Role of Acetylcholinesterase in $\beta$ -Amyloid Aggregation Studied by Accelerated Molecular Dynamics. <i>BioNanoScience</i> , 2017, 7, 396-402.	1.5	23
49	The C5 Variant of the Butyrylcholinesterase Tetramer Includes a Noncovalently Bound 60 kDa Lamellipodin Fragment. <i>Molecules</i> , 2017, 22, 1083.	1.7	15
50	Bacterial Virus Ontology; Coordinating across Databases. <i>Viruses</i> , 2017, 9, 126.	1.5	3
51	The ins and outs of eukaryotic viruses: Knowledge base and ontology of a viral infection. <i>PLoS ONE</i> , 2017, 12, e0171746.	1.1	7
52	Improving HIV proteome annotation: new features of BioAfrica HIV Proteomics Resource. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, baw045.	1.4	8
53	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.	0.4	8
54	Sensing activity of cholinesterases through a luminescence response of the hexarhenium cluster complex $[Re_6S_8(OH)_6]^{4+}$ . <i>Analyst</i> , 2016, 141, 4204-4210.	1.7	20

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55	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, 12992-13001.	1.3	30
56	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, 1225-1236.	1.7	39
57	Novel approaches in prophylaxis/pretreatment and treatment of organophosphorus poisoning. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 1433-1443.	0.8	15
58	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.	1.7	8
59	Slow-binding inhibition of cholinesterases, pharmacological and toxicological relevance. <i>Archives of Biochemistry and Biophysics</i> , 2016, 593, 60-68.	1.4	27
60	Assessing Gravitropic Responses in Arabidopsis. <i>Methods in Molecular Biology</i> , 2016, 1398, 11-20.	0.4	0
61	Emergence of catalytic bioscavengers against organophosphorus agents. <i>Chemico-Biological Interactions</i> , 2016, 259, 319-326.	1.7	40
62	Monoclonal antibodies to human butyrylcholinesterase reactive with butyrylcholinesterase in animal plasma. <i>Chemico-Biological Interactions</i> , 2016, 243, 82-90.	1.7	10
63	Current and emerging strategies for organophosphate decontamination: special focus on hyperstable enzymes. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8200-8218.	2.7	72
64	Luminescent silica nanoparticles for sensing acetylcholinesterase-catalyzed hydrolysis of acetylcholine. <i>Biosensors and Bioelectronics</i> , 2016, 77, 871-878.	5.3	21
65	CHAPTER 2. Nerve Agents: Catalytic Scavengers as an Alternative Approach for Medical Countermeasures. <i>Issues in Toxicology</i> , 2016, , 43-81.	0.2	5
66	6-Methyluracil derivatives as acetylcholinesterase inhibitors for treatment of Alzheimer's disease. <i>International Journal of Risk and Safety in Medicine</i> , 2015, 27, S69-S71.	0.3	6
67	6-Methyluracil Derivatives as Bifunctional Acetylcholinesterase Inhibitors for the Treatment of Alzheimer's Disease. <i>ChemMedChem</i> , 2015, 10, 1863-1874.	1.6	33
68	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, S74-S75.	0.3	0
69	Catalytic Bioscavengers. , 2015, , 1107-1123.		5
70	Human butyrylcholinesterase polymorphism: Molecular modeling. <i>International Journal of Risk and Safety in Medicine</i> , 2015, 27, S80-S81.	0.3	4
71	Biomarkers of Exposure to Organophosphorus Poisons. , 2015, , 953-965.		1
72	A structured annotation frame for the transposable phages: A new proposed family <i>Saltoviridae</i> within the Caudovirales. <i>Virology</i> , 2015, 477, 155-163.	1.1	32

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73	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, 51-59.	1.3	25
74	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, 336-345.	1.7	19
75	Pressure-induced molten globule state of human acetylcholinesterase: structural and dynamical changes monitored by neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3157-3163.	1.3	34
76	Chemical Polysialylation and In Vivo Tetramerization Improve Pharmacokinetic Characteristics of Recombinant Human Butyrylcholinesterase-Based Bioscavengers. <i>Acta Naturae</i> , 2015, 7, 136-141.	1.7	14
77	The VASCULATURE COMPLEXITY AND CONNECTIVITY Gene Encodes a Plant-Specific Protein Required for Embryo Provasculature Development. <i>Plant Physiology</i> , 2014, 166, 889-902.	2.3	28
78	Molecular Modeling Evidence for His438 Flip in the Mechanism of Butyrylcholinesterase Hysteretic Behavior. <i>Journal of Molecular Neuroscience</i> , 2014, 52, 434-445.	1.1	14
79	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.	1.5	18
80	Macrocyclic derivatives of 6-methyluracil as ligands of the peripheral anionic site of acetylcholinesterase. <i>MedChemComm</i> , 2014, 5, 1729-1735.	3.5	11
81	Characterization of a novel butyrylcholinesterase point mutation (p.Ala34Val), silent with mivacurium. <i>Biochemical Pharmacology</i> , 2014, 92, 476-483.	2.0	27
82	Detection of cresyl phosphate-modified butyrylcholinesterase in human plasma for chemical exposure associated with aerotoxic syndrome. <i>Analytical Biochemistry</i> , 2014, 461, 17-26.	1.1	19
83	Effect of covalent grafting on mechanical properties of TiO <sub>2</sub> /polystyrene composites. <i>Materials Chemistry and Physics</i> , 2014, 147, 261-267.	2.0	14
84	Characterization of a Novel BCHE Allele: Point Mutation (p.Val204Asp) Causes Loss of Activity and Prolonged Apnea with Suxamethonium. <i>PLoS ONE</i> , 2014, 9, e101552.	1.1	34
85	An Integrated Ontology Resource to Explore and Study Host-Virus Relationships. <i>PLoS ONE</i> , 2014, 9, e108075.	1.1	13
86	Progress in the development of enzyme-based nerve agent bioscavengers. <i>Chemico-Biological Interactions</i> , 2013, 206, 536-544.	1.7	138
87	PHOS-Select Iron Affinity Beads Enrich Peptides for the Detection of Organophosphorus Adducts on Albumin. <i>Chemical Research in Toxicology</i> , 2013, 26, 1917-1925.	1.7	11
88	Molecular modeling of butyrylcholinesterase inhibition by cresyl saligenin phosphate. <i>Russian Chemical Bulletin</i> , 2013, 62, 2527-2537.	0.4	17
89	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, 387-399.	1.7	53
90	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, 1243-1248.	3.3	79

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91	Relation between dynamics, activity and thermal stability within the cholinesterase family. <i>Chemico-Biological Interactions</i> , 2013, 203, 14-18.	1.7	8
92	Research on cholinesterases in the Soviet Union and Russia: A historical perspective. <i>Chemico-Biological Interactions</i> , 2013, 203, 3-9.	1.7	10
93	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013, 203, 196-201.	1.7	24
94	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, 280-289.	1.7	35
95	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, 390-398.	1.4	16
96	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, 132-141.	1.1	21
97	Enhancement of styrene conversion in organic/inorganic hybrid materials by using malononitrile in controlled radical polymerization. <i>Polymer International</i> , 2013, 62, 878-883.	1.6	14
98	Polyclonal Antibody to Soman-Tyrosine. <i>Chemical Research in Toxicology</i> , 2013, 26, 584-592.	1.7	11
99	Recombinant Human Butyrylcholinesterase As a New-Age Bioscavenger Drug: Development of the Expression System. <i>Acta Naturae</i> , 2013, 5, 73-84.	1.7	18
100	ViralZone: recent updates to the virus knowledge resource. <i>Nucleic Acids Research</i> , 2012, 41, D579-D583.	6.5	48
101	Insights into the regenerative property of plant cells and their receptivity to transgenesis. <i>Plant Signaling and Behavior</i> , 2012, 7, 1608-1620.	1.2	23
102	Energy Landscapes of Human Acetylcholinesterase and Its Huperzine A-Inhibited Counterpart. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14744-14753.	1.2	17
103	Activity and molecular dynamics relationship within the family of human cholinesterases. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6764.	1.3	18
104	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, 104-110.	1.4	28
105	Time-dependent kinetic complexities in cholinesterase-catalyzed reactions. <i>Biochemistry (Moscow)</i> , 2012, 77, 1147-1161.	0.7	15
106	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, 189-198.	1.7	32
107	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.	0.1	6
108	Les protéines DING : propriétés biochimiques, structurales, et capacité à inhiber la réplication du virus VIH-1. <i>Bulletin De L'Academie Nationale De Medecine</i> , 2012, 196, 693-704.	0.0	0

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109	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.	1.7	60
110	Dendronized Polymers with Peripheral Oligo(ethylene oxide) Chains: Thermoresponsive Behavior and Shape Anisotropy in Solution. <i>Macromolecules</i> , 2011, 44, 8925-8935.	2.2	53
111	Evolution of and perspectives on therapeutic approaches to nerve agent poisoning. <i>Toxicology Letters</i> , 2011, 206, 5-13.	0.4	85
112	Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. <i>Toxicology Letters</i> , 2011, 206, 14-23.	0.4	49
113	Structural Study of the Complex Stereoselectivity of Human Butyrylcholinesterase for the Neurotoxic V-agents. <i>Journal of Biological Chemistry</i> , 2011, 286, 16783-16789.	1.6	41
114	Exposure to tri-o-cresyl phosphate detected in jet airplane passengers. <i>Toxicology and Applied Pharmacology</i> , 2011, 256, 337-347.	1.3	62
115	Human-Phosphate-Binding-Protein inhibits HIV-1 gene transcription and replication. <i>Virology Journal</i> , 2011, 8, 352.	1.4	18
116	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.	1.7	42
117	ViralZone: a knowledge resource to understand virus diversity. <i>Nucleic Acids Research</i> , 2011, 39, D576-D582.	6.5	312
118	<i>Reactibodies</i> 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, 15954-15959.	3.3	48
119	Structural Evidence That Human Acetylcholinesterase Inhibited by Tabun Ages through O-Dealkylation. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4002-4008.	2.9	90
120	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, 1297-1311.	1.2	53
121	Application of laccase-mediator system (LMS) for the degradation of organophosphorus compounds. <i>Chemico-Biological Interactions</i> , 2010, 187, 393-396.	1.7	23
122	Preparation and characterization of methoxy polyethylene glycol-conjugated phosphotriesterase as a potential catalytic bioscavenger against organophosphate poisoning. <i>Chemico-Biological Interactions</i> , 2010, 187, 380-383.	1.7	19
123	Structural approach to the aging of phosphorylated cholinesterases. <i>Chemico-Biological Interactions</i> , 2010, 187, 157-162.	1.7	64
124	Aging mechanism of butyrylcholinesterase inhibited by an N-methyl analogue of tabun: Implications of the trigonalâ€“bipyramidal transition state rearrangement for the phosphorylation or reactivation of cholinesterases. <i>Chemico-Biological Interactions</i> , 2010, 187, 44-48.	1.7	20
125	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, 559-565.	1.4	33
126	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, 878, 1346-1355.	1.2	12

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127	Paraoxonase-1 and its Interactions with HDL , 2010, , 99-131.		3
128	Detection of Adduct on Tyrosine 411 of Albumin in Humans Poisoned by Dichlorvos. Toxicological Sciences, 2010, 116, 23-31.	1.4	50
129	Accumulation of Tetrahedral Intermediates in Cholinesterase Catalysis: A Secondary Isotope Effect Study. Journal of the American Chemical Society, 2010, 132, 17751-17759.	6.6	23
130	Butyrylcholinesterase for protection from organophosphorus poisons: Catalytic complexities and hysteretic behavior. Archives of Biochemistry and Biophysics, 2010, 494, 107-120.	1.4	192
131	Structure-activity analysis of aging and reactivation of human butyrylcholinesterase inhibited by analogues of tabun. Biochemical Journal, 2009, 421, 97-106.	1.7	62
132	Characterization of a REG/PA28 Proteasome Activator Homolog in <i>Dictyostelium discoideum</i> Indicates that the Ubiquitin- and ATP-Independent REG <sup>3</sup> Proteasome Is an Ancient Nuclear Protease. Eukaryotic Cell, 2009, 8, 844-851.	3.4	16
133	Tyrosines of Human and Mouse Transferrin Covalently Labeled by Organophosphorus Agents: A New Motif for Binding to Proteins that Have No Active Site Serine. Toxicological Sciences, 2009, 107, 144-155.	1.4	30
134	Biomarkers of Exposure to Organophosphorus Poisons. , 2009, , 847-858.		5
135	Carbofuran poisoning detected by mass spectrometry of butyrylcholinesterase adduct in human serum. Journal of Applied Toxicology, 2009, 29, 149-155.	1.4	42
136	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon Sulfolobus solfataricus. Extremophiles, 2009, 13, 461-470.	0.9	60
137	Exploring the structural and functional stabilities of different paraoxonase-1 formulations through electrophoretic mobilities and enzyme activity parameters under hydrostatic pressure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 680-688.	1.1	12
138	Direct Correlation between Molecular Dynamics and Enzymatic Stability: A Comparative Neutron Scattering Study of Native Human Butyrylcholinesterase and its Aged-Soman Conjugate. Biophysical Journal, 2009, 96, 1489-1494.	0.2	9
139	Regioselective access to 3-O-substituted- $\beta$ -cyclodextrin derivatives. Chemical Communications, 2009, , 589-591.	2.2	28
140	Crystallographic Snapshots of Nonaged and Aged Conjugates of Soman with Acetylcholinesterase, and of a Ternary Complex of the Aged Conjugate with Pralidoxime. Journal of Medicinal Chemistry, 2009, 52, 7593-7603.	2.9	81
141	Update on biochemical properties of recombinant <i>Pseudomonas diminuta</i> phosphotriesterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 1045-1055.	2.5	21
142	Structural basis for natural lactonase and promiscuous phosphotriesterase activities. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s135-s135.	0.3	0
143	Structure, Activities and Biomedical Applications of Human Butyrylcholinesterase. Protein and Peptide Letters, 2009, 16, 1215-1224.	0.4	74
144	Catalytic Bioscavengers. , 2009, , 1053-1065.		11

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