

# Patrick Ym Masson

## List of Publications by Year in descending order

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305  
papers

12,030  
citations

28736

57  
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49824

91  
g-index

321  
all docs

321  
docs citations

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times ranked

9918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure of Human Butyrylcholinesterase and of Its Complexes with Substrate and Products. <i>Journal of Biological Chemistry</i> , 2003, 278, 41141-41147.	1.6	678
2	High pressure effects on protein structure and function. , 1996, 24, 81-91.		631
3	Butyrylcholinesterase, paraoxonase, and albumin esterase, but not carboxylesterase, are present in human plasma. <i>Biochemical Pharmacology</i> , 2005, 70, 1673-1684.	2.0	478
4	Effects of high pressure on proteins. <i>Food Reviews International</i> , 1993, 9, 611-628.	4.3	333
5	ViralZone: a knowledge resource to understand virus diversity. <i>Nucleic Acids Research</i> , 2011, 39, D576-D582.	6.5	312
6	Exploiting the effects of high hydrostatic pressure in biotechnological applications. <i>Trends in Biotechnology</i> , 1994, 12, 493-501.	4.9	267
7	High pressure effects on biological macromolecules: from structural changes to alteration of cellular processes. <i>BBA - Proteins and Proteomics</i> , 2002, 1595, 3-10.	2.1	218
8	Butyrylcholinesterase for protection from organophosphorus poisons: Catalytic complexities and hysteretic behavior. <i>Archives of Biochemistry and Biophysics</i> , 2010, 494, 107-120.	1.4	192
9	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
10	A Single Amino Acid Substitution, Gly117His, Confers Phosphotriesterase (Organophosphorus Acid) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.2	168
11	Structural Basis for Natural Lactonase and Promiscuous Phosphotriesterase Activities. <i>Journal of Molecular Biology</i> , 2008, 379, 1017-1028.	2.0	159
12	Role of Aspartate 70 and Tryptophan 82 in Binding of Succinylthiocholine to Human Butyrylcholinesterase. <i>Biochemistry</i> , 1997, 36, 2266-2277.	1.2	140
13	Progress in the development of enzyme-based nerve agent bioscavengers. <i>Chemico-Biological Interactions</i> , 2013, 206, 536-544.	1.7	138
14	Human paraoxonase: A promising approach for pre-treatment and therapy of organophosphorus poisoning. <i>Toxicology</i> , 2007, 233, 47-59.	2.0	137
15	Engineering of a monomeric and low-glycosylated form of human butyrylcholinesterase. <i>FEBS Journal</i> , 2002, 269, 630-637.	0.2	125
16	Asp70 in the Peripheral Anionic Site of Human Butyrylcholinesterase. <i>FEBS Journal</i> , 1996, 235, 36-48.	0.2	121
17	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
18	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry assay for organophosphorus toxicants bound to human albumin at Tyr411. <i>Analytical Biochemistry</i> , 2007, 361, 263-272.	1.1	108

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19	Aging of Cholinesterases Phosphylated by Tabun Proceeds through O-Dealkylation. <i>Journal of the American Chemical Society</i> , 2008, 130, 16011-16020.	6.6	106
20	Some recent aspects of the use of high-pressure for protein investigations in solution. <i>High Pressure Research</i> , 1989, 2, 1-28.	0.4	102
21	Binding and Hydrolysis of Soman by Human Serum Albumin. <i>Chemical Research in Toxicology</i> , 2008, 21, 421-431.	1.7	101
22	Pseudo-esterase Activity of Human Albumin. <i>Journal of Biological Chemistry</i> , 2008, 283, 22582-22590.	1.6	98
23	Identification of Residues Essential for Human Paraoxonase (PON1) Arylesterase/Organophosphatase Activities. <i>Biochemistry</i> , 1999, 38, 2816-2825.	1.2	97
24	High-Pressure Biotechnology in Medicine and Pharmaceutical Science. <i>Journal of Biomedicine and Biotechnology</i> , 2001, 1, 85-88.	3.0	97
25	Role of Water in Aging of Human Butyrylcholinesterase Inhibited by Echothiophate: The Crystal Structure Suggests Two Alternative Mechanisms of Aging. <i>Biochemistry</i> , 2005, 44, 1154-1162.	1.2	94
26	Tandem purification of two HDL-associated partner proteins in human plasma, paraoxonase (PON1) and phosphate binding protein (HPBP) using hydroxyapatite chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 836, 15-21.	1.2	93
27	Lamellipodin proline rich peptides associated with native plasma butyrylcholinesterase tetramers. <i>Biochemical Journal</i> , 2008, 411, 425-432.	1.7	92
28	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
29	Evolution of and perspectives on therapeutic approaches to nerve agent poisoning. <i>Toxicology Letters</i> , 2011, 206, 5-13.	0.4	85
30	The active site of human paraoxonase (PON1). <i>Journal of Applied Toxicology</i> , 2001, 21, S7-S11.	1.4	82
31	The dual control of TFIIIB recruitment by NC2 is gene specific. <i>Nucleic Acids Research</i> , 2008, 36, 539-549.	6.5	81
32	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, 7593-7603.	2.9	81
33	Serendipitous Discovery and X-Ray Structure of a Human Phosphate Binding Apolipoprotein. <i>Structure</i> , 2006, 14, 601-609.	1.6	79
34	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
35	Interaction between the peripheral site residues of human butyrylcholinesterase, D70 and Y332, in binding and hydrolysis of substrates. <i>BBA - Proteins and Proteomics</i> , 1999, 1433, 281-293.	2.1	76
36	Structure, Activities and Biomedical Applications of Human Butyrylcholinesterase. <i>Protein and Peptide Letters</i> , 2009, 16, 1215-1224.	0.4	74

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37	Polarity Effects on the Photophysics of Dendrimers with an Oligophenylenevinylene Core and Peripheral Fullerene Units. <i>Chemistry - A European Journal</i> , 2004, 10, 5076-5086.	1.7	72
38	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
39	Oligomeric States of the Detergent-solubilized Human Serum Paraoxonase (PON1). <i>Journal of Biological Chemistry</i> , 2002, 277, 33386-33397.	1.6	71
40	Combined Effects of High Hydrostatic Pressure and Temperature for Inactivation of <i>Bacillus anthracis</i> Spores. <i>Applied and Environmental Microbiology</i> , 2004, 70, 635-637.	1.4	71
41	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, 180-186.	1.7	71
42	Two invertebrate acetylcholinesterases show activation followed by inhibition with substrate concentration. <i>Biochemical Journal</i> , 1998, 329, 329-334.	1.7	70
43	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.	2.0	67
44	Importance of aspartate-70 in organophosphate inhibition, oxime re-activation and aging of human butyrylcholinesterase. <i>Biochemical Journal</i> , 1997, 325, 53-61.	1.7	66
45	Synthesis of polyethylene oxide macromers. <i>Polymer Bulletin</i> , 1982, 7, 17.	1.7	64
46	A collaborative endeavor to design cholinesterase-based catalytic scavengers against toxic organophosphorus esters. <i>Chemico-Biological Interactions</i> , 2008, 175, 273-280.	1.7	64
47	Structural approach to the aging of phosphorylated cholinesterases. <i>Chemico-Biological Interactions</i> , 2010, 187, 157-162.	1.7	64
48	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
49	Butyrylcholinesterase-catalysed hydrolysis of aspirin, a negatively charged ester, and aspirin-related neutral esters. <i>BBA - Proteins and Proteomics</i> , 1998, 1387, 41-52.	2.1	63
50	Structure-activity analysis of aging and reactivation of human butyrylcholinesterase inhibited by analogues of tabun. <i>Biochemical Journal</i> , 2009, 421, 97-106.	1.7	62
51	Exposure to tri-o-cresyl phosphate detected in jet airplane passengers. <i>Toxicology and Applied Pharmacology</i> , 2011, 256, 337-347.	1.3	62
52	Aging of di-isopropyl-phosphorylated human butyrylcholinesterase. <i>Biochemical Journal</i> , 1997, 327, 601-607.	1.7	61
53	Enzymes hydrolyzing organophosphates as potential catalytic scavengers against organophosphate poisoning. <i>Journal of Physiology (Paris)</i> , 1998, 92, 357-362.	2.1	60
54	Five Tyrosines and Two Serines in Human Albumin Are Labeled by the Organophosphorus Agent FP-Biotin. <i>Chemical Research in Toxicology</i> , 2008, 21, 1787-1794.	1.7	60

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55	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Extremophiles</i> , 2009, 13, 461-470.	0.9	60
56	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
57	Aging Pathways for Organophosphate-Inhibited Human Butyrylcholinesterase, Including Novel Pathways for Isomalathion, Resolved by Mass Spectrometry. <i>Toxicological Sciences</i> , 2007, 100, 136-145.	1.4	59
58	Optimization of Cholinesterase-Based Catalytic Bioscavengers Against Organophosphorus Agents. <i>Frontiers in Pharmacology</i> , 2018, 9, 211.	1.6	59
59	Pressure-induced molten globule state of cholinesterase. <i>FEBS Letters</i> , 1995, 370, 212-214.	1.3	57
60	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
61	Dendronized Polymers with Peripheral Oligo(ethylene oxide) Chains: Thermo-responsive Behavior and Shape Anisotropy in Solution. <i>Macromolecules</i> , 2011, 44, 8925-8935.	2.2	53
62	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
63	Detection of Adduct on Tyrosine 411 of Albumin in Humans Poisoned by Dichlorvos. <i>Toxicological Sciences</i> , 2010, 116, 23-31.	1.4	50
64	A naturally occurring molecular form of human plasma cholinesterase is an albumin conjugate. <i>BBA - Proteins and Proteomics</i> , 1989, 998, 258-266.	2.1	49
65	Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. <i>Toxicology Letters</i> , 2011, 206, 14-23.	0.4	49
66	Identification and Characterization of a <i>Drosophila</i> Nuclear Proteasome Regulator. <i>Journal of Biological Chemistry</i> , 2001, 276, 1383-1390.	1.6	48
67	Synthesis of 2-substituted $\beta$ -cyclodextrin derivatives with a hydrolytic activity against the organophosphorylester paraoxon. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 615-623.	2.6	48
68	<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
69	ViralZone: recent updates to the virus knowledge resource. <i>Nucleic Acids Research</i> , 2012, 41, D579-D583.	6.5	48
70	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
71	Fullerene-functionalized polyesters: synthesis, characterization and incorporation in photovoltaic cells. <i>New Journal of Chemistry</i> , 2002, 26, 1584-1589.	1.4	45
72	Contribution of the active-site metal cation to the catalytic activity and to the conformational stability of phosphotriesterase: temperature- and pH-dependence. <i>Biochemical Journal</i> , 2004, 380, 627-633.	1.7	45

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73	Hydration change during the aging of phosphorylated human butyrylcholinesterase: importance of residues aspartate-70 and glutamate-197 in the water network as probed by hydrostatic and osmotic pressures. <i>Biochemical Journal</i> , 1999, 343, 361-369.	1.7	44
74	Synthesis and characterization of polyalkylmethacrylate macromonomers. <i>Polymer Bulletin</i> , 1984, 12, 79-85.	1.7	42
75	Carbofuran poisoning detected by mass spectrometry of butyrylcholinesterase adduct in human serum. <i>Journal of Applied Toxicology</i> , 2009, 29, 149-155.	1.4	42
76	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
77	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
78	Capillary zone electrophoresis with optimized temperature control for studying thermal denaturation of proteins at various pH. <i>Electrophoresis</i> , 1999, 20, 1586-1594.	1.3	40
79	Use of a 'caged' analogue to study the traffic of choline within acetylcholinesterase by kinetic crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 1115-1128.	2.5	40
80	Emergence of catalytic bioscavengers against organophosphorus agents. <i>Chemico-Biological Interactions</i> , 2016, 259, 319-326.	1.7	40
81	Synthèse et homopolymérisation de macromères de polystyrène. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1982, 3, 499-504.	1.1	39
82	A putative kinetic model for substrate metabolism by <i>Drosophila</i> acetylcholinesterase. <i>FEBS Letters</i> , 1998, 440, 85-88.	1.3	39
83	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
84	Photoreversible Inhibition of Cholinesterases: Catalytic Serine-Labeled Caged Butyrylcholinesterase. <i>ChemBioChem</i> , 2003, 4, 762-767.	1.3	38
85	Stability of highly purified human paraoxonase (PON1): Association with human phosphate binding protein (HPBP) is essential for preserving its active conformation(s). <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 874-883.	1.1	38
86	Macromonomers - a new class of polymeric intermediates in macromolecular synthesis. I - synthesis and characterization. <i>Die Makromolekulare Chemie</i> , 1984, 8, 3-15.	1.1	37
87	Evidence that the conformational stability of 'aged' organophosphate-inhibited cholinesterase is altered. <i>BBA - Proteins and Proteomics</i> , 1986, 869, 304-313.	2.1	37
88	Effects of mutations of active site residues and amino acids interacting with the Î© loop on substrate activation of butyrylcholinesterase. <i>BBA - Proteins and Proteomics</i> , 2001, 1544, 166-176.	2.1	37
89	Substrate activation in acetylcholinesterase induced by low pH or mutation in the Î©-cation subsite. <i>BBA - Proteins and Proteomics</i> , 2002, 1594, 313-324.	2.1	36
90	Damped oscillatory hysteretic behaviour of butyrylcholinesterase with benzoylcholine as substrate. <i>FEBS Journal</i> , 2003, 271, 220-234.	0.2	36

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91	Linear and non-linear pressure dependence of enzyme catalytic parameters. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 440-450.	1.1	35
92	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
93	<i>Drosophila</i> Proteasome Regulator REG1 $\beta$ : Transcriptional Activation by DNA Replication-related Factor DREF and Evidence for a Role in Cell Cycle Progression. <i>Journal of Molecular Biology</i> , 2003, 327, 1001-1012.	2.0	34
94	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
95	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.	1.1	34
96	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
97	6-Methyluracil Derivatives as Bifunctional Acetylcholinesterase Inhibitors for the Treatment of Alzheimer's Disease. <i>ChemMedChem</i> , 2015, 10, 1863-1874.	1.6	33
98	Stability of butyrylcholinesterase: thermal inactivation in water and deuterium oxide. <i>BBA - Proteins and Proteomics</i> , 1988, 957, 111-121.	2.1	32
99	Conformational plasticity of butyrylcholinesterase as revealed by high pressure experiments. <i>BBA - Proteins and Proteomics</i> , 1990, 1041, 223-231.	2.1	32
100	Mutant of <i>Bungarus fasciatus</i> acetylcholinesterase with low affinity and low hydrolase activity toward organophosphorus esters. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1470-1478.	1.1	32
101	An unexpected plasma cholinesterase activity rebound after challenge with a high dose of the nerve agent VX. <i>Toxicology</i> , 2008, 248, 151-157.	2.0	32
102	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
103	A structured annotation frame for the transposable phages: A new proposed family "Saltoviridae" within the Caudovirales. <i>Virology</i> , 2015, 477, 155-163.	1.1	32
104	Catalytic Bioscavengers Against Toxic Esters, an Alternative Approach for Prophylaxis and Treatments of Poisonings. <i>Acta Naturae</i> , 2009, 1, 68-79.	1.7	32
105	Hydrophobic interaction electrophoresis under high hydrostatic pressure: Study of the effects of pressure upon the interaction of serum albumin with a long-chain aliphatic ligand. <i>Electrophoresis</i> , 1988, 9, 157-161.	1.3	31
106	Butyrylcholinesterase-catalyzed hydrolysis of N-methylindoxyl acetate: analysis of volume changes upon reaction and hysteretic behavior. <i>BBA - Proteins and Proteomics</i> , 2002, 1597, 229-243.	2.1	31
107	Computer-designed active human butyrylcholinesterase double mutant with a new catalytic triad. <i>Chemico-Biological Interactions</i> , 2019, 306, 138-146.	1.7	31
108	Electrophoresis at elevated hydrostatic pressure of the multiheme hydroxylamine oxidoreductase. <i>Electrophoresis</i> , 1990, 11, 128-133.	1.3	30

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109	Pressure and Propylene Carbonate Denaturation of Native and "Aged" Phosphorylated Cholinesterase. <i>Journal of Molecular Biology</i> , 1994, 238, 466-478.	2.0	30
110	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, 144-155.	1.4	30
111	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
112	Measuring conformational stability of proteins using an optimized temperature-controlled capillary electrophoresis approach. <i>Journal of Chromatography A</i> , 1999, 838, 157-165.	1.8	29
113	Aryl acylamidase activity of human serum albumin with <i>o</i> -nitrotrifluoroacetanilide as the substrate. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2007, 22, 463-469.	2.5	29
114	Dual effect of high electric field in capillary electrophoresis study of the conformational stability of <i>Bungarus fasciatus</i> acetylcholinesterase. <i>Journal of Chromatography A</i> , 2001, 910, 347-357.	1.8	28
115	The Reactant State for Substrate-Activated Turnover of Acetylthiocholine by Butyrylcholinesterase is a Tetrahedral Intermediate. <i>Journal of the American Chemical Society</i> , 2005, 127, 14538-14539.	6.6	28
116	Regioselective access to 3-O-substituted- $\beta$ -cyclodextrin derivatives. <i>Chemical Communications</i> , 2009, , 589-591.	2.2	28
117	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
118	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
119	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.	4.8	28
120	Characterization of a novel butyrylcholinesterase point mutation (p.Ala34Val), $\epsilon$ -silent with mivacurium. <i>Biochemical Pharmacology</i> , 2014, 92, 476-483.	2.0	27
121	Slow-binding inhibition of cholinesterases, pharmacological and toxicological relevance. <i>Archives of Biochemistry and Biophysics</i> , 2016, 593, 60-68.	1.4	27
122	Multiple advantages of capillary zone electrophoresis for exploring protein conformational stability. <i>Electrophoresis</i> , 2002, 23, 189-202.	1.3	26
123	Kinetic analysis of butyrylcholinesterase-catalyzed hydrolysis of acetanilides. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 1139-1147.	1.1	26
124	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5967-5977.	4.0	26
125	3D structure of the natural tetrameric form of human butyrylcholinesterase as revealed by cryoEM, SAXS and MD. <i>Biochimie</i> , 2019, 156, 196-205.	1.3	26
126	The powerful high pressure tool for protein conformational studies. <i>Brazilian Journal of Medical and Biological Research</i> , 2005, 38, 1175-1183.	0.7	26



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127	Synthesis and characterization of polyvinylpyridine macromonomers. <i>Polymer Bulletin</i> , 1984, 11, 115.	1.7	25
128	High activity of human butyrylcholinesterase at low pH in the presence of excess butyrylthiocholine. <i>FEBS Journal</i> , 2003, 270, 315-324.	0.2	25
129	Stabilization of the active form(s) of human paraoxonase by human phosphate-binding protein. <i>Biochemical Society Transactions</i> , 2007, 35, 1616-1620.	1.6	25
130	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
131	Thermodynamic arguments for temperature-induced cryptic conformational change of human plasma cholinesterase. <i>BBA - Proteins and Proteomics</i> , 1986, 874, 90-98.	2.1	24
132	Evidence for a single butyrylcholinesterase gene in individuals carrying the C5 plasma cholinesterase variant (CHE2). <i>FEBS Letters</i> , 1990, 262, 115-118.	1.3	24
133	The Influence of Solvent Composition on Global Dynamics of Human Butyrylcholinesterase Powders: A Neutron-Scattering Study. <i>Biophysical Journal</i> , 2004, 86, 3152-3165.	0.2	24
134	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. <i>Chemico-Biological Interactions</i> , 2013, 203, 196-201.	1.7	24
135	Thermal stability of acetylcholinesterase from <i>Bungarus fasciatus</i> venom as investigated by capillary electrophoresis. <i>BBA - Proteins and Proteomics</i> , 2001, 1545, 216-226.	2.1	23
136	Application of laccase-mediator system (LMS) for the degradation of organophosphorus compounds. <i>Chemico-Biological Interactions</i> , 2010, 187, 393-396.	1.7	23
137	Accumulation of Tetrahedral Intermediates in Cholinesterase Catalysis: A Secondary Isotope Effect Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 17751-17759.	6.6	23
138	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
139	Role of Acetylcholinesterase in $\beta$ -Amyloid Aggregation Studied by Accelerated Molecular Dynamics. <i>BioNanoScience</i> , 2017, 7, 396-402.	1.5	23
140	Effects of high pressure on the single-turnover kinetics of the carbamylation of cholinesterase. <i>BBA - Proteins and Proteomics</i> , 1988, 954, 208-215.	2.1	22
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