Patrick Ym Masson

List of Publications by Year
in descending order

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305 papers	12,030 citations	25034 57 h-index	39675 94 g-index
321 all docs	321 docs citations	321 times ranked	9047 citing authors

#	Article	IF	Citations
1	Crystal Structure of Human Butyrylcholinesterase and of Its Complexes with Substrate and Products. Journal of Biological Chemistry, 2003, 278, 41141-41147.	3.4	678
2	High pressure effects on protein structure and function. Proteins: Structure, Function and Bioinformatics, 1996, 24, 81-91.	2.6	631
3	Butyrylcholinesterase, paraoxonase, and albumin esterase, but not carboxylesterase, are present in human plasma. Biochemical Pharmacology, 2005, 70, 1673-1684.	4.4	478
4	Effects of high pressure on proteins. Food Reviews International, 1993, 9, 611-628.	8.4	333
5	ViralZone: a knowledge resource to understand virus diversity. Nucleic Acids Research, 2011, 39, D576-D582.	14.5	312
6	Exploiting the effects of high hydrostatic pressure in biotechnological applications. Trends in Biotechnology, 1994, 12, 493-501.	9.3	267
7	High pressure effects on biological macromolecules: from structural changes to alteration of cellular processes. BBA - Proteins and Proteomics, 2002, 1595, 3-10.	2.1	218
8	Butyrylcholinesterase for protection from organophosphorus poisons: Catalytic complexities and hysteretic behavior. Archives of Biochemistry and Biophysics, 2010, 494, 107-120.	3.0	192
9	Microfluidic droplet platform for ultrahigh-throughput single-cell screening of biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2550-2555.	7.1	182
10	A Single Amino Acid Substitution, Gly117His, Confers Phosphotriesterase (Organophosphorus Acid) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	168
11	Structural Basis for Natural Lactonase and Promiscuous Phosphotriesterase Activities. Journal of Molecular Biology, 2008, 379, 1017-1028.	4.2	159
12	Role of Aspartate 70 and Tryptophan 82 in Binding of Succinyldithiocholine to Human Butyrylcholinesteraseâ€. Biochemistry, 1997, 36, 2266-2277.	2.5	140
13	Progress in the development of enzyme-based nerve agent bioscavengers. Chemico-Biological Interactions, 2013, 206, 536-544.	4.0	138
14	Human paraoxonase: A promising approach for pre-treatment and therapy of organophosphorus poisoning. Toxicology, 2007, 233, 47-59.	4.2	137
15	Engineering of a monomeric and low-glycosylated form of human butyrylcholinesterase. FEBS Journal, 2002, 269, 630-637.	0.2	125
16	Asp70 in the Peripheral Anionic Site of Human Butyrylcholinesterase. FEBS Journal, 1996, 235, 36-48.	0.2	121
17	Cholinesterase reactivators and bioscavengers for preâ€•and postâ€exposure treatments of organophosphorus poisoning. Journal of Neurochemistry, 2017, 142, 26-40.	3.9	113
18	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry assay for organophosphorus toxicants bound to human albumin at Tyr411. Analytical Biochemistry, 2007, 361, 263-272.	2.4	108

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19	Aging of Cholinesterases Phosphylated by Tabun Proceeds through O-Dealkylation. Journal of the American Chemical Society, 2008, 130, 16011-16020.	13.7	106
20	Some recent aspects of the use of high-pressure for protein investigations in solution. High Pressure Research, 1989, 2, 1-28.	1.2	102
21	Binding and Hydrolysis of Soman by Human Serum Albumin. Chemical Research in Toxicology, 2008, 21, 421-431.	3.3	101
22	Pseudo-esterase Activity of Human Albumin. Journal of Biological Chemistry, 2008, 283, 22582-22590.	3.4	98
23	Identification of Residues Essential for Human Paraoxonase (PON1) Arylesterase/Organophosphatase Activities. Biochemistry, 1999, 38, 2816-2825.	2.5	97
24	High-Pressure Biotechnology in Medicine and Pharmaceutical Science. Journal of Biomedicine and Biotechnology, 2001, 1, 85-88.	3.0	97
25	Role of Water in Aging of Human Butyrylcholinesterase Inhibited by Echothiophate:â€‰ The Crystal Structure Suggests Two Alternative Mechanisms of Aging,. Biochemistry, 2005, 44, 1154-1162.	2.5	94
26	Tandem purification of two HDL-associated partner proteins in human plasma, paraoxonase (PON1) and phosphate binding protein (HPBP) using hydroxyapatite chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 836, 15-21.	2.3	93
27	Lamellipodin proline rich peptides associated with native plasma butyrylcholinesterase tetramers. Biochemical Journal, 2008, 411, 425-432.	3.7	92
28	Structural Evidence That Human Acetylcholinesterase Inhibited by Tabun Ages through O-Dealkylation. Journal of Medicinal Chemistry, 2010, 53, 4002-4008.	6.4	90
29	Evolution of and perspectives on therapeutic approaches to nerve agent poisoning. Toxicology Letters, 2011, 206, 5-13.	0.8	85
30	The active site of human paraoxonase (PON1). Journal of Applied Toxicology, 2001, 21, S7-S11.	2.8	82
31	The dual control of TFIIB recruitment by NC2 is gene specific. Nucleic Acids Research, 2008, 36, 539-549.	14.5	81
32	Crystallographic Snapshots of Nonaged and Aged Conjugates of Soman with Acetylcholinesterase, and of a Ternary Complex of the Aged Conjugate with Pralidoxime. Journal of Medicinal Chemistry, 2009, 52, 7593-7603.	6.4	81
33	Serendipitous Discovery and X-Ray Structure of a Human Phosphate Binding Apolipoprotein. Structure, 2006, 14, 601-609.	3.3	79
34	Chemical polysialylation of human recombinant butyrylcholinesterase delivers a long-acting bioscavenger for nerve agents in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1243-1248.	7.1	79
35	Interaction between the peripheral site residues of human butyrylcholinesterase, D70 and Y332, in binding and hydrolysis of substrates. BBA - Proteins and Proteomics, 1999, 1433, 281-293.	2.1	76
36	Structure, Activities and Biomedical Applications of Human Butyrylcholinesterase. Protein and Peptide Letters, 2009, 16, 1215-1224.	0.9	74

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37	Polarity Effects on the Photophysics of Dendrimers with an Oligophenylenevinylene Core and Peripheral Fullerene Units. Chemistry - A European Journal, 2004, 10, 5076-5086.	3.3	72
38	Current and emerging strategies for organophosphate decontamination: special focus on hyperstable enzymes. Environmental Science and Pollution Research, 2016, 23, 8200-8218.	5.3	72
39	Oligomeric States of the Detergent-solubilized Human Serum Paraoxonase (PON1). Journal of Biological Chemistry, 2002, 277, 33386-33397.	3.4	71
40	Combined Effects of High Hydrostatic Pressure and Temperature for Inactivation of Bacillus anthracis Spores. Applied and Environmental Microbiology, 2004, 70, 635-637.	3.1	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. Chemico-Biological Interactions, 2008, 175, 180-186.	4.0	71
42	Two invertebrate acetylcholinesterases show activation followed by inhibition with substrate concentration. Biochemical Journal, 1998, 329, 329-334.	3.7	70
43	New evidence for dual binding site inhibitors of acetylcholinesterase as improved drugs for treatment of Alzheimer's disease. Neuropharmacology, 2019, 155, 131-141.	4.1	67
44	Importance of aspartate-70 in organophosphate inhibition, oxime re-activation and aging of human butyrylcholinesterase. Biochemical Journal, 1997, 325, 53-61.	3.7	66
45	Synthesis of polyethylene oxide macromers. Polymer Bulletin, 1982, 7, 17.	3.3	64
46	A collaborative endeavor to design cholinesterase-based catalytic scavengers against toxic organophosphorus esters. Chemico-Biological Interactions, 2008, 175, 273-280.	4.0	64
47	Structural approach to the aging of phosphylated cholinesterases. Chemico-Biological Interactions, 2010, 187, 157-162.	4.0	64
48	Mixed cationic liposomes for brain delivery of drugs by the intranasal route: The acetylcholinesterase reactivator 2-PAM as encapsulated drug model. Colloids and Surfaces B: Biointerfaces, 2018, 171, 358-367.	5.0	64
49	Butyrylcholinesterase-catalysed hydrolysis of aspirin, a negatively charged ester, and aspirin-related neutral esters. BBA - Proteins and Proteomics, 1998, 1387, 41-52.	2.1	63
50	Structureâ€“activity analysis of aging and reactivation of human butyrylcholinesterase inhibited by analogues of tabun. Biochemical Journal, 2009, 421, 97-106.	3.7	62
51	Exposure to tri-o-cresyl phosphate detected in jet airplane passengers. Toxicology and Applied Pharmacology, 2011, 256, 337-347.	2.8	62
52	Aging of di-isopropyl-phosphorylated human butyrylcholinesterase. Biochemical Journal, 1997, 327, 601-607.	3.7	61
53	Enzymes hydrolyzing organophosphates as potential catalytic scavengers against organophosphate poisoning. Journal of Physiology (Paris), 1998, 92, 357-362.	2.1	60
54	Five Tyrosines and Two Serines in Human Albumin Are Labeled by the Organophosphorus Agent FP-Biotin. Chemical Research in Toxicology, 2008, 21, 1787-1794.	3.3	60

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55	Structural determinants of the high thermal stability of SsoPox from the hyperthermophilic archaeon Sulfolobus solfataricus. Extremophiles, 2009, 13, 461-470.	2.3	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. Chemical Research in Toxicology, 2011, 24, 797-808.	3.3	60
57	Aging Pathways for Organophosphate-Inhibited Human Butyrylcholinesterase, Including Novel Pathways for Isomalathion, Resolved by Mass Spectrometry. Toxicological Sciences, 2007, 100, 136-145.	3.1	59
58	Optimization of Cholinesterase-Based Catalytic Bioscavengers Against Organophosphorus Agents. Frontiers in Pharmacology, 2018, 9, 211.	3.5	59
59	Pressure-induced molten globule state of cholinesterase. FEBS Letters, 1995, 370, 212-214.	2.8	57
60	Mass spectral characterization of organophosphate-labeled, tyrosine-containing peptides: Characteristic mass fragments and a new binding motif for organophosphates. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 1297-1311.	2.3	53
61	Dendronized Polymers with Peripheral Oligo(ethylene oxide) Chains: Thermoresponsive Behavior and Shape Anisotropy in Solution. Macromolecules, 2011, 44, 8925-8935.	4.8	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. Biochemical Journal, 2013, 454, 387-399.	3.7	53
63	Detection of Adduct on Tyrosine 411 of Albumin in Humans Poisoned by Dichlorvos. Toxicological Sciences, 2010, 116, 23-31.	3.1	50
64	A naturally occurring molecular form of human plasma cholinesterase is an albumin conjugate. BBA - Proteins and Proteomics, 1989, 998, 258-266.	2.1	49
65	Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. Toxicology Letters, 2011, 206, 14-23.	0.8	49
66	Identification and Characterization of a DrosophilaNuclear Proteasome Regulator. Journal of Biological Chemistry, 2001, 276, 1383-1390.	3.4	48
67	Synthesis of 2-substituted Î²-cyclodextrin derivatives with a hydrolytic activity against the organophosphorylester paraoxon. European Journal of Medicinal Chemistry, 2005, 40, 615-623.	5.5	48
68	Reactibodies generated by kinetic selection couple chemical reactivity with favorable protein dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15954-15959.	7.1	48
69	ViralZone: recent updates to the virus knowledge resource. Nucleic Acids Research, 2012, 41, D579-D583.	14.5	48
70	Nanoparticle-Delivered 2-PAM for Rat Brain Protection against Paraoxon Central Toxicity. ACS Applied Materials & Interfaces, 2017, 9, 16922-16932.	8.0	46
71	Fullerene-functionalized polyesters: synthesis, characterization and incorporation in photovoltaic cells. New Journal of Chemistry, 2002, 26, 1584-1589.	2.8	45
72	Contribution of the active-site metal cation to the catalytic activity and to the conformational stability of phosphotriesterase: temperature- and pH-dependence. Biochemical Journal, 2004, 380, 627-633.	3.7	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. Biochemical Journal, 1999, 343, 361-369.	3.7	44
74	Synthesis and characterization of polyalkylmethacrylate macromonomers. Polymer Bulletin, 1984, 12, 79-85.	3.3	42
75	Carbofuran poisoning detected by mass spectrometry of butyrylcholinesterase adduct in human serum. Journal of Applied Toxicology, 2009, 29, 149-155.	2.8	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. Biochemical Journal, 2011, 434, 73-82.	3.7	42
77	Structural Study of the Complex Stereoselectivity of Human Butyrylcholinesterase for the Neurotoxic V-agents. Journal of Biological Chemistry, 2011, 286, 16783-16789.	3.4	41
78	Capillary zone electrophoresis with optimized temperature control for studying thermal denaturation of proteins at various pH. Electrophoresis, 1999, 20, 1586-1594.	2.4	40
79	Use of a `caged' analogue to study the traffic of choline within acetylcholinesterase by kinetic crystallography. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 1115-1128.	2.5	40
80	Emergence of catalytic bioscavengers against organophosphorus agents. Chemico-Biological Interactions, 2016, 259, 319-326.	4.0	40
81	SynthÃ¨se et homopolymÃ©risation de macromÃ¨res de polystyrÃ¨ne. Die Makromolekulare Chemie Rapid Communications, 1982, 3, 499-504.	1.1	39
82	A putative kinetic model for substrate metabolisation byDrosophilaacetylcholinesterase. FEBS Letters, 1998, 440, 85-88.	2.8	39
83	Slow-binding inhibition of acetylcholinesterase by an alkylammonium derivative of 6-methyluracil: mechanism and possible advantages for myasthenia gravis treatment. Biochemical Journal, 2016, 473, 1225-1236.	3.7	39
84	Photoreversible Inhibition of Cholinesterases: Catalytic Serine-Labeled Caged Butyrylcholinesterase. ChemBioChem, 2003, 4, 762-767.	2.6	38
85	Stability of highly purified human paraoxonase (PON1): Association with human phosphate binding protein (HPBP) is essential for preserving its active conformation(s). Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 874-883.	2.3	38
86	Macromonomers - a new class of polymeric intermediates in macromolecular synthesis. I - synthesis and characterization. Die Makromolekulare Chemie, 1984, 8, 3-15.	1.1	37
87	Evidence that the conformational stability of â€˜agedâ€™ organophosphate-inhibited cholinesterase is altered. BBA - Proteins and Proteomics, 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. BBA - Proteins and Proteomics, 2001, 1544, 166-176.	2.1	37
89	Substrate activation in acetylcholinesterase induced by low pH or mutation in the Ï€-cation subsite. BBA - Proteins and Proteomics, 2002, 1594, 313-324.	2.1	36
90	Damped oscillatory hysteretic behaviour of butyrylcholinesterase with benzoylcholine as substrate. FEBS Journal, 2003, 271, 220-234.	0.2	36

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91	Linear and non-linear pressure dependence of enzyme catalytic parameters. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 440-450.	2.4	35
92	Inhibition Pathways of the Potent Organophosphate CBDP with Cholinesterases Revealed by X-ray Crystallographic Snapshots and Mass Spectrometry. Chemical Research in Toxicology, 2013, 26, 280-289.	3.3	35
93	Drosophila Proteasome Regulator REGÎ³: Transcriptional Activation by DNA Replication-related Factor DREF and Evidence for a Role in Cell Cycle Progression. Journal of Molecular Biology, 2003, 327, 1001-1012.	4.2	34
94	Pressure-induced molten globule state of human acetylcholinesterase: structural and dynamical changes monitored by neutron scattering. Physical Chemistry Chemical Physics, 2015, 17, 3157-3163.	2.8	34
95	Characterization of a Novel BCHE â€œSilentâ€•Allele: Point Mutation (p.Val204Asp) Causes Loss of Activity and Prolonged Apnea with Suxamethonium. PLoS ONE, 2014, 9, e101552.	2.5	34
96	Dichlorvos, chlorpyrifos oxon and Aldicarb adducts of butyrylcholinesterase, detected by mass spectrometry in human plasma following deliberate overdose. Journal of Applied Toxicology, 2010, 30, 559-565.	2.8	33
97	6â€Methyluracil Derivatives as Bifunctional Acetylcholinesterase Inhibitors for the Treatment of Alzheimer's Disease. ChemMedChem, 2015, 10, 1863-1874.	3.2	33
98	Stability of butyrylcholinesterase: thermal inactivation in water and deuterium oxide. BBA - Proteins and Proteomics, 1988, 957, 111-121.	2.1	32
99	Conformational plasticity of butyrylcholinesterase as revealed by high pressure experiments. BBA - Proteins and Proteomics, 1990, 1041, 223-231.	2.1	32
100	Mutant of Bungarus fasciatus acetylcholinesterase with low affinity and low hydrolase activity toward organophosphorus esters. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1470-1478.	2.3	32
101	An unexpected plasma cholinesterase activity rebound after challenge with a high dose of the nerve agent VX. Toxicology, 2008, 248, 151-157.	4.2	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. Chemico-Biological Interactions, 2012, 195, 189-198.	4.0	32
103	A structured annotation frame for the transposable phages: A new proposed family â€œSaltoviridaeâ€• within the Caudovirales. Virology, 2015, 477, 155-163.	2.4	32
104	Catalytic Bioscavengers Against Toxic Esters, an Alternative Approach for Prophylaxis and Treatments of Poisonings. Acta Naturae, 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. Electrophoresis, 1988, 9, 157-161.	2.4	31
106	Butyrylcholinesterase-catalyzed hydrolysis of N-methylindoxyl acetate: analysis of volume changes upon reaction and hysteretic behavior. BBA - Proteins and Proteomics, 2002, 1597, 229-243.	2.1	31
107	Computer-designed active human butyrylcholinesterase double mutant with a new catalytic triad. Chemico-Biological Interactions, 2019, 306, 138-146.	4.0	31
108	Electrophoresis at elevated hydrostatic pressure of the multiheme hydroxylamine oxidoreductase. Electrophoresis, 1990, 11, 128-133.	2.4	30

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109	Pressure and Propylene Carbonate Denaturation of Native and "Aged" Phosphorylated Cholinesterase. Journal of Molecular Biology, 1994, 238, 466-478.	4.2	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. Toxicological Sciences, 2009, 107, 144-155.	3.1	30
111	Dynamics of human acetylcholinesterase bound to non-covalent and covalent inhibitors shedding light on changes to the water network structure. Physical Chemistry Chemical Physics, 2016, 18, 12992-13001.	2.8	30
112	Measuring conformational stability of proteins using an optimized temperature-controlled capillary electrophoresis approach. Journal of Chromatography A, 1999, 838, 157-165.	3.7	29
113	Aryl acylamidase activity of human serum albumin witho-nitrotrifluoroacetanilide as the substrate. Journal of Enzyme Inhibition and Medicinal Chemistry, 2007, 22, 463-469.	5.2	29
114	Dual effect of high electric field in capillary electrophoresis study of the conformational stability of Bungarus fasciatus acetylcholinesterase. Journal of Chromatography A, 2001, 910, 347-357.	3.7	28
115	The Reactant State for Substrate-Activated Turnover of Acetylthiocholine by Butyrylcholinesterase is a Tetrahedral Intermediate. Journal of the American Chemical Society, 2005, 127, 14538-14539.	13.7	28
116	Regioselective access to 3^I-O-substituted-Î²-cyclodextrin derivatives. Chemical Communications, 2009, , 589-591.	4.1	28
117	Effects of hydrostatic pressure on the quaternary structure and enzymatic activity of a large peptidase complex from Pyrococcus horikoshii. Archives of Biochemistry and Biophysics, 2012, 517, 104-110.	3.0	28
118	The VASCULATURE COMPLEXITY AND CONNECTIVITY Gene Encodes a Plant-Specific Protein Required for Embryo Provasculature Development. Plant Physiology, 2014, 166, 889-902.	4.8	28
119	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.	9.9	28
120	Characterization of a novel butyrylcholinesterase point mutation (p.Ala34Val), â€œsilentâ€•with mivacurium. Biochemical Pharmacology, 2014, 92, 476-483.	4.4	27
121	Slow-binding inhibition of cholinesterases, pharmacological and toxicological relevance. Archives of Biochemistry and Biophysics, 2016, 593, 60-68.	3.0	27
122	Multiple advantages of capillary zone electrophoresis for exploring protein conformational stability. Electrophoresis, 2002, 23, 189-202.	2.4	26
123	Kinetic analysis of butyrylcholinesterase-catalyzed hydrolysis of acetanilides. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 1139-1147.	2.3	26
124	Novel Alkali Activation of Titanium Substrates To Grow Thick and Covalently Bound PMMA Layers. ACS Applied Materials & Interfaces, 2018, 10, 5967-5977.	8.0	26
125	3D structure of the natural tetrameric form of human butyrylcholinesterase as revealed by cryoEM, SAXS and MD. Biochimie, 2019, 156, 196-205.	2.6	26
126	The powerful high pressure tool for protein conformational studies. Brazilian Journal of Medical and Biological Research, 2005, 38, 1175-1183.	1.5	26

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127	Synthesis and characterization of polyvinylpyridine macromonomers. Polymer Bulletin, 1984, 11, 115.	3.3	25
128	High activity of human butyrylcholinesterase at low pH in the presence of excess butyrylthiocholine. FEBS Journal, 2003, 270, 315-324.	0.2	25
129	Stabilization of the active form(s) of human paraoxonase by human phosphate-binding protein. Biochemical Society Transactions, 2007, 35, 1616-1620.	3.4	25
130	A novel expression cassette delivers efficient production of exclusively tetrameric human butyrylcholinesterase with improved pharmacokinetics for protection against organophosphate poisoning. Biochimie, 2015, 118, 51-59.	2.6	25
131	Thermodynamic arguments for temperature-induced cryptic conformational change of human plasma cholinesterase. BBA - Proteins and Proteomics, 1986, 874, 90-98.	2.1	24
132	Evidence for a single butyrylcholinesterase gene in individuals carrying the C5plasma cholinesterase variant (CHE2). FEBS Letters, 1990, 262, 115-118.	2.8	24
133	The Influence of Solvent Composition on Global Dynamics of Human Butyrylcholinesterase Powders: A Neutron-Scattering Study. Biophysical Journal, 2004, 86, 3152-3165.	0.5	24
134	Strategies for the selection of catalytic antibodies against organophosphorus nerve agents. Chemico-Biological Interactions, 2013, 203, 196-201.	4.0	24
135	Thermal stability of acetylcholinesterase from Bungarus fasciatus venom as investigated by capillary electrophoresis. BBA - Proteins and Proteomics, 2001, 1545, 216-226.	2.1	23
136	Application of laccase-mediator system (LMS) for the degradation of organophosphorus compounds. Chemico-Biological Interactions, 2010, 187, 393-396.	4.0	23
137	Accumulation of Tetrahedral Intermediates in Cholinesterase Catalysis: A Secondary Isotope Effect Study. Journal of the American Chemical Society, 2010, 132, 17751-17759.	13.7	23
138	Insights into the regenerative property of plant cells and their receptivity to transgenesis. Plant Signaling and Behavior, 2012, 7, 1608-1620.	2.4	23
139	Role of Acetylcholinesterase in Î²-Amyloid Aggregation Studied by Accelerated Molecular Dynamics. BioNanoScience, 2017, 7, 396-402.	3.5	23
140	Effects of high pressure on the single-turnover kinetics of the carbamylation of cholinesterase. BBA - Proteins and Proteomics, 1988, 954, 208-215.	2.1	22
141	Monoclonal Antibodies Allow Precipitation of Esterasic but Not Peptidasic Activities Associated with Butyrylcholinesterase. Journal of Neurochemistry, 1990, 55, 750-755.	3.9	22
142	Kinetics of butyrylcholinesterase in reversed micelles under high pressure. BBA - Proteins and Proteomics, 1995, 1253, 85-93.	2.1	22
143	Rate-determining step of butyrylcholinesterase-catalyzed hydrolysis of benzoylcholine and benzoylthiocholine. Volumetric study of wild-type and D70G mutant behaviour. FEBS Journal, 2004, 271, 1980-1990.	0.2	22
144	Concentration-dependent reversible activation-inhibition of human butyrylcholinesterase by tetraethylammonium ion. FEBS Journal, 2002, 269, 1154-1161.	0.2	21

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145	Hydrolysis of oxo- and thio-esters by human butyrylcholinesterase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 16-34.	2.3	21
146	Kinetic analysis of effector modulation of butyrylcholinesteraseâ€catalysed hydrolysis of acetanilides and homologous esters. FEBS Journal, 2008, 275, 2617-2631.	4.7	21
147	Update on biochemical properties of recombinantPseudomonas diminutaphosphotriesterase. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 1045-1055.	5.2	21
148	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of titanium oxide-enriched peptides for detection of aged organophosphorus adducts on human butyrylcholinesterase. Analytical Biochemistry, 2013, 439, 132-141.	2.4	21
149	Luminescent silica nanoparticles for sensing acetylcholinesterase-catalyzed hydrolysis of acetylcholine. Biosensors and Bioelectronics, 2016, 77, 871-878.	10.1	21
150	Combined pressure/heat-induced inactivation of butyrylcholinesterase. BBA - Proteins and Proteomics, 1997, 1340, 245-252.	2.1	20
151	The wild type bacterial Co2+/Co2+-phosphotriesterase shows a middle-range thermostability. BBA - Proteins and Proteomics, 2002, 1594, 207-218.	2.1	20
152	Hysteresis of butyrylcholinesterase in the approach to steady-state kinetics. Chemico-Biological Interactions, 2005, 157-158, 143-152.	4.0	20
153	Fast affinity purification coupled with mass spectrometry for identifying organophosphate labeled plasma butyrylcholinesterase. Chemico-Biological Interactions, 2008, 175, 68-72.	4.0	20
154	Aging mechanism of butyrylcholinesterase inhibited by an N-methyl analogue of tabun: Implications of the trigonalâ€“bipyramidal transition state rearrangement for the phosphylation or reactivation of cholinesterases. Chemico-Biological Interactions, 2010, 187, 44-48.	4.0	20
155	Sensing activity of cholinesterases through a luminescence response of the hexarhenium cluster complex [{Re₆S₈}(OH)₆]^{4â^'}. Analyst, The, 2016, 141, 4204-4210.	3.5	20
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