

Charles M Thompson

List of Publications by Year in descending order

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papers

1,573
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257101

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329751

37
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67
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67
docs citations

67
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	Albumin, a New Biomarker of Organophosphorus Toxicant Exposure, Identified by Mass Spectrometry. <i>Toxicological Sciences</i> , 2004, 83, 303-312.	1.4	149
2	The synaptic vesicle proteome: A comparative study in membrane protein identification. <i>Proteomics</i> , 2004, 4, 3141-3155.	1.3	91
3	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
4	Synthesis and in Vitro Pharmacology of Substituted Quinoline-2,4-dicarboxylic Acids as Inhibitors of Vesicular Glutamate Transport. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 2260-2276.	2.9	66
5	Inhibitors of the Glutamate Vesicular Transporter (VGLUT). <i>Current Medicinal Chemistry</i> , 2005, 12, 2041-2056.	1.2	66
6	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
7	Preparation, analysis and anticholinesterase properties of O,O-dimethyl phosphorothioate isomerides. <i>Chemical Research in Toxicology</i> , 1989, 2, 386-391.	1.7	48
8	Mass spectrometry identifies multiple organophosphorylated sites on tubulin. <i>Toxicology and Applied Pharmacology</i> , 2009, 240, 149-158.	1.3	43
9	Synthesis, absolute configuration, and analysis of malathion, malaoxon, and isomalathion enantiomers. <i>Chemical Research in Toxicology</i> , 1993, 6, 718-723.	1.7	40
10	Organophosphorus Pesticides Decrease M2 Muscarinic Receptor Function in Guinea Pig Airway Nerves via Indirect Mechanisms. <i>PLoS ONE</i> , 2010, 5, e10562.	1.1	40
11	Mass Spectrometric Analyses of Organophosphate Insecticide Oxon Protein Adducts. <i>Environmental Health Perspectives</i> , 2010, 118, 11-19.	2.8	40
12	Characteristic mass spectral fragments of the organophosphorus agent FP-biotin and FP-biotinylated peptides from trypsin and bovine albumin (Tyr410). <i>Analytical Biochemistry</i> , 2005, 345, 122-132.	1.1	39
13	Quinoline-2,4-dicarboxylic acids: Synthesis and evaluation as inhibitors of the glutamate vesicular transport system. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 2607-2612.	1.0	38
14	Functional and pharmacological properties of triheteromeric GluN1/2B/2D NMDA receptors. <i>Journal of Physiology</i> , 2019, 597, 5495-5514.	1.3	38
15	Structural determinants of substrates and inhibitors: probing glutamate transporters with 2,4-methanopyrroldidine-2,4-dicarboxylate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 3101-3106.	1.0	36
16	Consequence of phosphorus stereochemistry upon the postinhibitory reaction kinetics of acetylcholinesterase poisoned by phosphorothiolates. <i>Journal of the American Chemical Society</i> , 1992, 114, 10710-10715.	6.6	35
17	Identification of Butyrylcholinesterase Adducts after Inhibition with Isomalathion Using Mass Spectrometry: Difference in Mechanism between (1R)- and (1S)-Stereoisomers. <i>Toxicology and Applied Pharmacology</i> , 2001, 176, 73-80.	1.3	35
18	Inhibition of Acetylcholinesterase by (1S,3S)-Isomalathion Proceeds with Loss of Thiomethyl: Kinetic and Mass Spectral Evidence for an Unexpected Primary Leaving Group. <i>Chemical Research in Toxicology</i> , 2000, 13, 1313-1320.	1.7	34

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19	Probing the Active Sites of Butyrylcholinesterase and Cholesterol Esterase with Isomalathion: Conserved Stereoselective Inactivation of Serine Hydrolases Structurally Related to Acetylcholinesterase. <i>Chemical Research in Toxicology</i> , 2001, 14, 807-813.	1.7	33
20	Interaction of acetylcholinesterase with the enantiomers of malaoxon and isomalathion. <i>Chemical Research in Toxicology</i> , 1993, 6, 724-730.	1.7	31
21	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
22	Reaction Kinetics of Biotinylated Organophosphorus Toxicant, FP-biotin, with Human Acetylcholinesterase and Human Butyrylcholinesterase. <i>Chemical Research in Toxicology</i> , 2005, 18, 747-754.	1.7	29
23	Bisquaternary pyridinium oximes: Comparison of in vitro reactivation potency of compounds bearing aliphatic linkers and heteroaromatic linkers for paraoxon-inhibited electric eel and recombinant human acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 787-794.	1.4	26
24	Mechanism of cholinesterase inhibition by methamidophos. <i>Journal of Agricultural and Food Chemistry</i> , 1982, 30, 282-284.	2.4	25
25	Relative Potencies of the Four Stereoisomers of Isomalathion for Inhibition of Hen Brain Acetylcholinesterase and Neurotoxic Esterase in Vitro. <i>Toxicology and Applied Pharmacology</i> , 1996, 139, 342-348.	1.3	24
26	Differentiation between Acetylcholinesterase and the Organophosphate-inhibited Form Using Antibodies and the Correlation of Antibody Recognition with Reactivation Mechanism and Rate. <i>Journal of Biological Chemistry</i> , 2003, 278, 45512-45518.	1.6	23
27	Kinetics of the postinhibitory reactions of acetylcholinesterase poisoned by chiral isomalathion: a surprising nonreactivation induced by the RP stereoisomers. <i>Chemical Research in Toxicology</i> , 1993, 6, 28-32.	1.7	22
28	Comparative anticholinesterase potency of chiral isoparathion methyl. <i>Chemical Research in Toxicology</i> , 1991, 4, 517-520.	1.7	21
29	Thionate versus Oxon: Comparison of Stability, Uptake, and Cell Toxicity of (¹⁴ C) ₃ -Labeled Methyl Parathion and Methyl Paraoxon with SH-SY5Y Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 8460-8466.	2.4	21
30	New series of monoquaternary pyridinium oximes: Synthesis and reactivation potency for paraoxon-inhibited electric eel and recombinant human acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 5101-5104.	1.0	19
31	Antimicrobial, Antimalarial, and Antileishmanial Activities of Mono- and Bisquaternary Pyridinium Compounds. <i>Chemical Biology and Drug Design</i> , 2010, 76, 546-551.	1.5	18
32	A Novel Fluorine-18 ¹⁸ F-Fluoroethoxy Organophosphate Positron Emission Tomography Imaging Tracer Targeted to Central Nervous System Acetylcholinesterase. <i>ACS Chemical Neuroscience</i> , 2014, 5, 519-524.	1.7	18
33	Cleavage of a 23S rRNA pseudoknot by phenanthroline-Cu(II). <i>Nucleic Acids Research</i> , 1999, 27, 1906-1911.	6.5	17
34	Stereoselective Inactivation of <i>Torpedo californica</i> Acetylcholinesterase by Isomalathion: Inhibitory Reactions with (1R)- and (1S)-Isomers Proceed by Different Mechanisms. <i>Chemical Research in Toxicology</i> , 2003, 16, 958-965.	1.7	17
35	Synthesis and anti-acetylcholinesterase properties of novel ¹⁸ F- and ¹³ C-substituted alkoxy organophosphonates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 2048-2051.	1.0	16
36	Tetrapeptide inhibitors of the glutamate vesicular transporter (VGLUT). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 5125-5128.	1.0	15

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37	The inhibition, reactivation and mechanism of VX-, sarin-, fluoro-VX and fluoro-sarin surrogates following their interaction with HuAChE and HuBuChE. <i>Chemico-Biological Interactions</i> , 2018, 291, 220-227.	1.7	15
38	Conformationally-restricted amino acid analogues bearing a distal sulfonic acid show selective inhibition of system over the vesicular glutamate transporter. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 2680-2683.	1.0	14
39	Synthesis of chiral malathion and isomalathion. <i>Tetrahedron Letters</i> , 1992, 33, 1415-1418.	0.7	12
40	Synthesis and ³¹ P Chemical Shift Identification of Tripeptide Active Site Models That Represent Human Serum Acetylcholinesterase Covalently Modified at Serine by Certain Organophosphates. <i>Chemical Research in Toxicology</i> , 1996, 9, 1325-1332.	1.7	12
41	Synthesis of fluorescent probes directed to the active site gorge of acetylcholinesterase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1523-1526.	1.0	12
42	Novel Organophosphate Ligand O-(2-Fluoroethyl)-O-(<i>p</i> -Nitrophenyl)Methylphosphonate: Synthesis, Hydrolytic Stability and Analysis of the Inhibition and Reactivation of Cholinesterases. <i>Chemical Research in Toxicology</i> , 2016, 29, 1810-1817.	1.7	12
43	Analysis and sequencing of the active-site peptide from native and organophosphate-inactivated acetylcholinesterase by electrospray ionization, quadrupole/time-of-flight (QTOF) mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 830, 105-113.	1.2	11
44	Use of the hydantoin isostere to produce inhibitors showing selectivity toward the vesicular glutamate transporter versus the obligate exchange transporter system. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4358-4362.	1.0	10
45	The development of benzo- and naphtho-fused quinoline-2,4-dicarboxylic acids as vesicular glutamate transporter (VGLUT) inhibitors reveals a possible role for neuroactive steroids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 850-854.	1.0	10
46	Synthesis and Preliminary Evaluation of trans-3,4-Conformationally-Restricted Glutamate and Pyroglutamate Analogues as Novel EAAT2 Inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 3209-3213.	1.0	9
47	Efficient Digestion and Mass Spectral Analysis of Vesicular Glutamate Transporter 1: A Recombinant Membrane Protein Expressed in Yeast. <i>Journal of Proteome Research</i> , 2008, 7, 570-578.	1.8	9
48	Oxidative stress resulting from exposure of a human salivary gland cells to paraoxon: An in vitro model for organophosphate oral exposure. <i>Toxicology in Vitro</i> , 2014, 28, 715-721.	1.1	9
49	Positron emission tomography studies of organophosphate chemical threats and oxime countermeasures. <i>Neurobiology of Disease</i> , 2020, 133, 104455.	2.1	9
50	Paraoxon-Induced Protein Expression Changes to SH-SY5Y Cells. <i>Chemical Research in Toxicology</i> , 2010, 23, 1656-1662.	1.7	7
51	An improved radiosynthesis of O-(2- ¹⁸ F)fluoroethyl)-O-(<i>p</i> -Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (- Compounds and Radiopharmaceuticals, 2017, 60, 337-342.	0.5	7
52	Inhibition of acetylcholinesterase by chromophore-linked fluorophosphonates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1194-1197.	1.0	6
53	SYNTHESIS OF STERICALLY HINDERED PHOSPHONAMIDOTHIOATES AND PHOSPHONAMIDODITHIOATES. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 117, 101-110.	0.8	4
54	Preparation and characterization of diethoxy- and monoethoxy phosphylated (â€agedâ€™) serine haptens and use in the production of monoclonal antibodies. <i>Chemico-Biological Interactions</i> , 2014, 223, 134-140.	1.7	4

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55	Radiosynthesis of O-((¹⁸ F)fluoropropan-2-yl)-O-(4-nitrophenyl)methylphosphonate: A novel PET tracer surrogate of sarin. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018, 61, 1089-1094.	0.5	4
56	Comparison of the reactivation rates of acetylcholinesterase modified by structurally different organophosphates using novel pyridinium oximes. <i>Environmental Toxicology and Pharmacology</i> , 2019, 71, 103218.	2.0	4
57	VGLUT substrates and inhibitors: A computational viewpoint. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183175.	1.4	4
58	Food dyes as P-glycoprotein modulators. <i>Food and Chemical Toxicology</i> , 2020, 146, 111785.	1.8	4
59	Purification and Proteomic Analysis of Synaptic Vesicles. <i>Methods in Molecular Biology</i> , 2008, 432, 259-274.	0.4	3
60	Divergent synthesis of organophosphate [¹¹ C]VX- and [¹¹ C]Sarin-surrogates from a common set of starting materials. <i>Applied Radiation and Isotopes</i> , 2019, 151, 182-186.	0.7	2
61	Inhibition of Acetylcholinesterases by Stereoisomeric Organophosphorus Compounds Containing Both Thioester and p-Nitrophenyl Leaving Groups. <i>Chemical Research in Toxicology</i> , 2020, 33, 2455-2466.	1.7	2
62	Inhibition of the Vesicular Glutamate Transporter (VGLUT) with Congo Red Analogs: New Binding Insights. <i>Neurochemical Research</i> , 2021, 46, 494-503.	1.6	2
63	Positron emission tomography evaluation of oxime countermeasures in live rats using the tracer O-((¹⁸ F)fluoroethyl)-O-(p-nitrophenyl)methylphosphonate [¹⁸ F]VXS. <i>Annals of the New York Academy of Sciences</i> , 2020, 1479, 180-195.	1.8	1
64	Biological Distribution and Metabolic Profiles of Carbon-11 and Fluorine-18 Tracers of VX- and Sarin-Analogs in Sprague-Dawley Rats. <i>Chemical Research in Toxicology</i> , 2021, 34, 63-69.	1.7	1
65	Dose Formulation, Biodistribution and PET Imaging Studies of a First-in-Class Fluorine-18 Organophosphorus Cholinesterase Inhibitor Tracer in Rat. <i>Current Chemical Biology</i> , 2021, 14, 289-303.	0.2	0
66	Chemical Cleavage as a Probe of Ribosomal Structure. , 0, , 257-269.		0