

# Charles M Thompson

## List of Publications by Year in descending order

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66  
papers

1,573  
citations

257101

24  
h-index

329751

37  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1340  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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         |
| 2  | 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         |
| 3  | 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         |
| 4  | Positron emission tomography studies of organophosphate chemical threats and oxime countermeasures. <i>Neurobiology of Disease</i> , 2020, 133, 104455.  | 2.1 | 9         |
| 5  | VGLUT substrates and inhibitors: A computational viewpoint. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183175.  | 1.4 | 4         |
| 6  | Food dyes as P-glycoprotein modulators. <i>Food and Chemical Toxicology</i> , 2020, 146, 111785.   | 1.8 | 4         |
| 7  | 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         |
| 8  | Positron emission tomography evaluation of oxime countermeasures in live rats using the tracer O-(2-[ <sup>18</sup> F]fluoroethyl)-O-(p-nitrophenyl)methylphosphonate [O-(2-[ <sup>18</sup> F]fluoroethyl)-O-(p-nitrophenyl)methylphosphonate] (VXS). <i>Annals of the New York Academy of Sciences</i> , 2020, 1479, 180-195. | 1.8 | 1         |
| 9  | 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         |
| 10 | Functional and pharmacological properties of triheteromeric GluN1/2B/2D NMDA receptors. <i>Journal of Physiology</i> , 2019, 597, 5495-5514.   | 1.3 | 38        |
| 11 | Divergent synthesis of organophosphate [ <sup>11</sup> C]VX- and [ <sup>11</sup> C]Sarin-surrogates from a common set of starting materials. <i>Applied Radiation and Isotopes</i> , 2019, 151, 182-186.   | 0.7 | 2         |
| 12 | Radiosynthesis of O-(2-[ <sup>18</sup> 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         |
| 13 | 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        |
| 14 | An improved radiosynthesis of O-(2-[ <sup>18</sup> F]fluoroethyl)-O-(p-nitrophenyl)methylphosphonate. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017, 60, 337-342.   | 0.5 | 7         |
| 15 | Novel Organophosphate Ligand O-(2-Fluoroethyl)-O-(p-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        |
| 16 | Preparation and characterization of diethoxy- and monoethoxy phosphylated (aged) serine haptens and use in the production of monoclonal antibodies. <i>Chemico-Biological Interactions</i> , 2014, 223, 134-140.   | 1.7 | 4         |
| 17 | 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        |
| 18 | A Novel Fluorine-18 <sup>18</sup> 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        |

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|----|---|-----|-----------|
| 19 | 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         |
| 20 | Synthesis and anti-acetylcholinesterase properties of novel $\hat{1}^2$ - and $\hat{1}^3$ -substituted alkoxy organophosphonates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 2048-2051.  | 1.0 | 16        |
| 21 | 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        |
| 22 | 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        |
| 23 | 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        |
| 24 | Inhibition of acetylcholinesterase by chromophore-linked fluorophosphonates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 1194-1197.   | 1.0 | 6         |
| 25 | 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        |
| 26 | 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        |
| 27 | Mass Spectrometric Analyses of Organophosphate Insecticide Oxon Protein Adducts. <i>Environmental Health Perspectives</i> , 2010, 118, 11-19.   | 2.8 | 40        |
| 28 | Paraoxon-Induced Protein Expression Changes to SH-SY5Y Cells. <i>Chemical Research in Toxicology</i> , 2010, 23, 1656-1662.   | 1.7 | 7         |
| 29 | Thionate versus Oxon: Comparison of Stability, Uptake, and Cell Toxicity of ( <sup>14</sup> CH <sub>3</sub> ) <sub>2</sub> -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 | 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        |
| 31 | Mass spectrometry identifies multiple organophosphorylated sites on tubulin. <i>Toxicology and Applied Pharmacology</i> , 2009, 240, 149-158.   | 1.3 | 43        |
| 32 | 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        |
| 33 | 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        |
| 34 | 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        |
| 35 | 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         |
| 36 | Purification and Proteomic Analysis of Synaptic Vesicles. <i>Methods in Molecular Biology</i> , 2008, 432, 259-274.   | 0.4 | 3         |

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|----|---|-----|-----------|
| 37 | Tetrapeptide inhibitors of the glutamate vesicular transporter (VGLUT). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 5125-5128.  | 1.0 | 15        |
| 38 | 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        |
| 39 | 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        |
| 40 | Inhibitors of the Glutamate Vesicular Transporter (VGLUT). <i>Current Medicinal Chemistry</i> , 2005, 12, 2041-2056.  | 1.2 | 66        |
| 41 | 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        |
| 42 | The synaptic vesicle proteome: A comparative study in membrane protein identification. <i>Proteomics</i> , 2004, 4, 3141-3155.  | 1.3 | 91        |
| 43 | Albumin, a New Biomarker of Organophosphorus Toxicant Exposure, Identified by Mass Spectrometry. <i>Toxicological Sciences</i> , 2004, 83, 303-312.   | 1.4 | 149       |
| 44 | 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        |
| 45 | 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        |
| 46 | 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        |
| 47 | 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         |
| 48 | 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        |
| 49 | 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        |
| 50 | 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        |
| 51 | 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        |
| 52 | Cleavage of a 23S rRNA pseudoknot by phenanthroline-Cu(II). <i>Nucleic Acids Research</i> , 1999, 27, 1906-1911.  | 6.5 | 17        |
| 53 | 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        |
| 54 | Structural determinants of substrates and inhibitors: probing glutamate transporters with 2,4-methanopyrrolidine-2,4-dicarboxylate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 3101-3106.   | 1.0 | 36        |

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|----|--|-----|-----------|
| 55 | Synthesis and <sup>31</sup> 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        |
| 56 | 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        |
| 57 | SYNTHESIS OF STERICALLY HINDERED PHOSPHONAMIDOTHIOLATES AND PHOSPHONAMIDODITHIOATES. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 117, 101-110.  | 0.8 | 4         |
| 58 | Interaction of acetylcholinesterase with the enantiomers of malaoxon and isomalathion. <i>Chemical Research in Toxicology</i> , 1993, 6, 724-730.  | 1.7 | 31        |
| 59 | Synthesis, absolute configuration, and analysis of malathion, malaoxon, and isomalathion enantiomers. <i>Chemical Research in Toxicology</i> , 1993, 6, 718-723.   | 1.7 | 40        |
| 60 | 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        |
| 61 | 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        |
| 62 | Synthesis of chiral malathion and isomalathion. <i>Tetrahedron Letters</i> , 1992, 33, 1415-1418.  | 0.7 | 12        |
| 63 | Comparative anticholinesterase potency of chiral isoparathion methyl. <i>Chemical Research in Toxicology</i> , 1991, 4, 517-520.   | 1.7 | 21        |
| 64 | Preparation, analysis and anticholinesterase properties of O,O-dimethyl phosphorothioate isomerides. <i>Chemical Research in Toxicology</i> , 1989, 2, 386-391.  | 1.7 | 48        |
| 65 | Mechanism of cholinesterase inhibition by methamidophos. <i>Journal of Agricultural and Food Chemistry</i> , 1982, 30, 282-284.  | 2.4 | 25        |
| 66 | Chemical Cleavage as a Probe of Ribosomal Structure. , 0, , 257-269.   |     | 0         |