Edward W Tate

List of Publications by Citations

189 papers	5,519 citations	41 h-index	65 g-index
224 ext. papers	7,022 ext. citations	7.4 avg, IF	5.83 L-index

#	Paper	IF	Citations
189	FSP1 is a glutathione-independent ferroptosis suppressor. *Nature*, **2019**, 575, 693-698	50.4	663
188	Protein myristoylation in health and disease. *Journal of Chemical Biology*, **2010**, 3, 19-35		165
187	Validation of N-myristoyltransferase as an antimalarial drug target using an integrated chemical biology approach. *Nature Chemistry*, **2014**, 6, 112-21	17.6	151
186	Global profiling of co- and post-translationally N-myristoylated proteomes in human cells. *Nature Communications*, **2014**, 5, 4919	17.4	148
185	Activity-based probes: discovering new biology and new drug targets. *Chemical Society Reviews*, **2011**, 40, 246-57	58.5	138
184	Chemical and biomimetic total syntheses of natural and engineered MCoTI cyclotides. *Organic and Biomolecular Chemistry*, **2008**, 6, 1462-70	3.9	133
183	N-Myristoyl transferase-mediated protein labelling in vivo. *Organic and Biomolecular Chemistry*, **2008**, 6, 2308-15	3.9	113
182	Potent inhibitors of beta-tryptase and human leukocyte elastase based on the MCoTI-II scaffold. *Journal of Medicinal Chemistry*, **2009**, 52, 6197-200	8.3	106
181	Multifunctional protein labeling via enzymatic N-terminal tagging and elaboration by click chemistry. *Nature Protocols*, **2011**, 7, 105-17	18.8	83
180	Global profiling of protein lipidation using chemical proteomic technologies. *Current Opinion in Chemical Biology*, **2015**, 24, 48-57	9.7	75
179	Dynamic Protein Acylation: New Substrates, Mechanisms, and Drug Targets. *Trends in Biochemical Sciences*, **2017**, 42, 566-581	10.3	74
178	Bioorthogonal chemical tagging of protein cholesterylation in living cells. *Chemical Communications* , **2011**, 47, 4081-3	5.8	74
177	Site-specific N-terminal labelling of proteins in vitro and in vivo using N-myristoyl transferase and bioorthogonal ligation chemistry. *Chemical Communications*, **2008**, 480-2	5.8	74
176	N-myristoyltransferase from Leishmania donovani: structural and functional characterisation of a potential drug target for visceral leishmaniasis. *Journal of Molecular Biology*, **2010**, 396, 985-99	6.5	73
175	Genome-wide functional analysis of Plasmodium protein phosphatases reveals key regulators of parasite development and differentiation. *Cell Host and Microbe*, **2014**, 16, 128-40	23.4	71
174	Multifunctional reagents for quantitative proteome-wide analysis of protein modification in human cells and dynamic profiling of protein lipidation during vertebrate development. *Angewandte Chemie - International Edition*, **2015**, 54, 5948-51	16.4	67
173	Comparing experimental and computational alanine scanning techniques for probing a prototypical protein-protein interaction. *Protein Engineering, Design and Selection*, **2011**, 24, 197-207	1.9	62

172	Global analysis of protein N-myristoylation and exploration of N-myristoyltransferase as a drug target in the neglected human pathogen Leishmania donovani. *Chemistry and Biology*, **2015**, 22, 342-54		59
171	Selective inhibitors of protozoan protein N-myristoyltransferases as starting points for tropical disease medicinal chemistry programs. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1625	4.8	58
170	Antibody-PROTAC Conjugates Enable HER2-Dependent Targeted Protein Degradation of BRD4. *ACS Chemical Biology*, **2020**, 15, 1306-1312	4.9	56
169	N-Myristoyltransferase as a potential drug target in malaria and leishmaniasis. *Parasitology*, **2014**, 141, 37-49	2.7	55
168	Discovery of Plasmodium vivax N-myristoyltransferase inhibitors: screening, synthesis, and structural characterization of their binding mode. *Journal of Medicinal Chemistry*, **2012**, 55, 3578-82	8.3	54
167	N-myristoyltransferase: a prospective drug target for protozoan parasites. *ChemMedChem*, **2008**, 3, 402-8	3.7	54
166	Molecules incorporating a benzothiazole core scaffold inhibit the N-myristoyltransferase of Plasmodium falciparum. *Biochemical Journal*, **2007**, 408, 173-80	3.8	54
165	Fragment-derived inhibitors of human N-myristoyltransferase block capsid assembly and replication of the common cold virus. *Nature Chemistry*, **2018**, 10, 599-606	17.6	53
164	Design and synthesis of high affinity inhibitors of Plasmodium falciparum and Plasmodium vivax N-myristoyltransferases directed by ligand efficiency dependent lipophilicity (LELP). *Journal of Medicinal Chemistry*, **2014**, 57, 2773-88	8.3	52
163	A fluorescence-based assay for N-myristoyltransferase activity. *Analytical Biochemistry*, **2012**, 421, 342-4	3.1	51
162	Chemical probes of surface layer biogenesis in Clostridium difficile. *ACS Chemical Biology*, **2010**, 5, 279-85	4.9	50
161	Topological analysis of Hedgehog acyltransferase, a multipalmitoylated transmembrane protein. *Journal of Biological Chemistry*, **2015**, 290, 3293-307	5.4	49
160	Diastereoselective oxygen to carbon rearrangements of anomerically linked enol ethers and the total synthesis of (+)-(S,S)-(cis-6-methyltetrahydropyran-2-yl)acetic acid, a component of civet. *Journal of the Chemical Society, Perkin Transactions 1*, **2000**, 2385-2394		49
159	Total synthesis of the macrocyclic cysteine knot microprotein MCoTI-II. *Chemical Communications*, **2006**, 2848-50	5.8	48
158	Roles of cysteine proteases Cwp84 and Cwp13 in biogenesis of the cell wall of Clostridium difficile. *Journal of Bacteriology*, **2011**, 193, 3276-85	3.5	47
157	Discovery of novel and ligand-efficient inhibitors of Plasmodium falciparum and Plasmodium vivax N-myristoyltransferase. *Journal of Medicinal Chemistry*, **2013**, 56, 371-5	8.3	46
156	Getting a chemical handle on protein post-translational modification. *Organic and Biomolecular Chemistry*, **2010**, 8, 731-8	3.9	46
155	Rapid multilabel detection of geranylgeranylated proteins by using bioorthogonal ligation chemistry. *ChemBioChem*, **2010**, 11, 771-3	3.8	46

154	Design and synthesis of inhibitors of Plasmodium falciparum N-myristoyltransferase, a promising target for antimalarial drug discovery. *Journal of Medicinal Chemistry*, **2012**, 55, 8879-90	8.3	45
153	Structure-based design of potent and selective Leishmania N-myristoyltransferase inhibitors. *Journal of Medicinal Chemistry*, **2014**, 57, 8664-70	8.3	44
152	Dual chemical probes enable quantitative system-wide analysis of protein prenylation and prenylation dynamics. *Nature Chemistry*, **2019**, 11, 552-561	17.6	42
151	Systems Analysis of Protein Fatty Acylation in Herpes Simplex Virus-Infected Cells Using Chemical Proteomics. *Chemistry and Biology*, **2015**, 22, 1008-17		42
150	High-Throughput Kinetic Analysis for Target-Directed Covalent Ligand Discovery. *Angewandte Chemie - International Edition*, **2018**, 57, 5257-5261	16.4	42
149	Immobilized protease-assisted synthesis of engineered cysteine-knot microproteins. *ChemBioChem*, **2007**, 8, 1107-9	3.8	42
148	N-Myristoyltransferase Inhibition Induces ER-Stress, Cell Cycle Arrest, and Apoptosis in Cancer Cells. *ACS Chemical Biology*, **2016**, 11, 2165-76	4.9	41
147	Unique apicomplexan IMC sub-compartment proteins are early markers for apical polarity in the malaria parasite. *Biology Open*, **2013**, 2, 1160-70	2.2	38
146	Organic Solvent Nanofiltration: A New Paradigm in Peptide Synthesis. *Organic Process Research and Development*, **2010**, 14, 1313-1325	3.9	38
145	Global Profiling and Inhibition of Protein Lipidation in Vector and Host Stages of the Sleeping Sickness Parasite. *ACS Infectious Diseases*, **2016**, 2, 427-441	5.5	38
144	Crystal structures of stapled and hydrogen bond surrogate peptides targeting a fully buried protein-helix interaction. *ACS Chemical Biology*, **2014**, 9, 2204-9	4.9	37
143	A caged E3 ligase ligand for PROTAC-mediated protein degradation with light. *Chemical Communications*, **2020**, 56, 5532-5535	5.8	36
142	Membrane enhanced peptide synthesis. *Chemical Communications*, **2010**, 46, 2808-10	5.8	36
141	AWZ1066S, a highly specific anti- drug candidate for a short-course treatment of filariasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1414-1419	11.5	36
140	Quantitative Chemical Proteomic Profiling of Ubiquitin Specific Proteases in Intact Cancer Cells. *ACS Chemical Biology*, **2016**, 11, 3268-3272	4.9	35
139	Global Profiling of Huntingtin-associated protein E (HYPE)-Mediated AMPylation through a Chemical Proteomic Approach. *Molecular and Cellular Proteomics*, **2016**, 15, 715-25	7.6	34
138	New chemical probes targeting cholesterylation of Sonic Hedgehog in human cells and zebrafish. *Chemical Science*, **2014**, 5, 4249-4259	9.4	33
137	Legionella pneumophila Effector LpdA Is a Palmitoylated Phospholipase D Virulence Factor. *Infection and Immunity*, **2015**, 83, 3989-4002	3.7	31

136	Characterization of Hedgehog Acyltransferase Inhibitors Identifies a Small Molecule Probe for Hedgehog Signaling by Cancer Cells. *ACS Chemical Biology*, **2016**, 11, 3256-3262	4.9	31
135	A short formal route to (±)-lepadin B using a xanthate-mediated free radical cyclisation/vinylation sequence. *Chemical Communications*, **2002**, 1430-1431	5.8	31
134	Crystal structure of the human, FIC-domain containing protein HYPE and implications for its functions. *Structure*, **2014**, 22, 1831-1843	5.2	30
133	Lipid membrane curvature induced by distearoyl phosphatidylinositol 4-phosphate. *Soft Matter*, **2012**, 8, 3090	3.6	30
132	Attenuation of hedgehog acyltransferase-catalyzed sonic Hedgehog palmitoylation causes reduced signaling, proliferation and invasiveness of human carcinoma cells. *PLoS ONE*, **2014**, 9, e89899	3.7	29
131	Recent advances in chemical proteomics: exploring the post-translational proteome. *Journal of Chemical Biology*, **2008**, 1, 17-26		29
130	Creating a customized intracellular niche: subversion of host cell signaling by Legionella type IV secretion system effectors. *Canadian Journal of Microbiology*, **2015**, 61, 617-35	3.2	28
129	Membrane bound O-acyltransferases and their inhibitors. *Biochemical Society Transactions*, **2015**, 43, 246-52	5.1	28
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127	Diverse modes of binding in structures of Leishmania major N-myristoyltransferase with selective inhibitors. *IUCrJ*, **2014**, 1, 250-60	4.7	27
126	Potent and specific inhibition of the biological activity of the type-II transmembrane serine protease matriptase by the cyclic microprotein MCoTI-II. *Thrombosis and Haemostasis*, **2014**, 112, 402-11	7	26
125	Discovery of a Potent and Selective Covalent Inhibitor and Activity-Based Probe for the Deubiquitylating Enzyme UCHL1, with Antifibrotic Activity. *Journal of the American Chemical Society* , **2020**, 142, 12020-12026	16.4	25
124	High-resolution snapshots of human N-myristoyltransferase in action illuminate a mechanism promoting N-terminal Lys and Gly myristoylation. *Nature Communications*, **2020**, 11, 1132	17.4	25
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122	Quantitative Lipoproteomics in Clostridium difficile Reveals a Role for Lipoproteins in Sporulation. *Chemistry and Biology*, **2015**, 22, 1562-1573		24
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120	A total synthesis of (+)-Goniodiol using an anomeric oxygen-to-carbon rearrangement. *Journal of the Chemical Society Perkin Transactions 1*, **1998**, 3125-3126		24
119	Efficient construction of polycyclic alkaloid synthetic precursors by a xanthate free radical addition and Mannich cyclisation cascade. *Tetrahedron Letters*, **2002**, 43, 4683-4686	2	24

118	Competition-based, quantitative chemical proteomics in breast cancer cells identifies new target profiles for sulforaphane. *Chemical Communications*, **2017**, 53, 5182-5185	5.8	23
117	N-Myristoylation as a Drug Target in Malaria: Exploring the Role of N-Myristoyltransferase Substrates in the Inhibitor Mode of Action. *ACS Infectious Diseases*, **2018**, 4, 449-457	5.5	23
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115	A highly enantioselective total synthesis of (+)-goniodiol. *Organic and Biomolecular Chemistry*, **2006**, 4, 1698-706	3.9	23
114	A role for the vesicle-associated tubulin binding protein ARL6 (BBS3) in flagellum extension in Trypanosoma brucei. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2012**, 1823, 1178-91	4.9	22
113	Interaction and dynamics of the Plasmodium falciparum MTIP-MyoA complex, a key component of the invasion motor in the malaria parasite. *Molecular BioSystems*, **2010**, 6, 494-8		22
112	Specific N-terminal protein labelling: use of FMDV 3C pro protease and native chemical ligation. *Chemical Communications*, **2008**, 3369-71	5.8	22
111	Regulation of the Plasmodium motor complex: phosphorylation of myosin A tail-interacting protein (MTIP) loosens its grip on MyoA. *Journal of Biological Chemistry*, **2012**, 287, 36968-77	5.4	21
110	High-yielding F radiosynthesis of a novel oxytocin receptor tracer, a probe for nose-to-brain oxytocin uptake in vivo. *Chemical Communications*, **2018**, 54, 8120-8123	5.8	21
109	New developments in probing and targeting protein acylation in malaria, leishmaniasis and African sleeping sickness. *Parasitology*, **2018**, 145, 157-174	2.7	20
108	Pharmacological Inhibition of PARP6 Triggers Multipolar Spindle Formation and Elicits Therapeutic Effects in Breast Cancer. *Cancer Research*, **2018**, 78, 6691-6702	10.1	20
107	Mouse Stbd1 is -myristoylated and affects ER-mitochondria association and mitochondrial morphology. *Journal of Cell Science*, **2017**, 130, 903-915	5.3	18
106	Validation and Invalidation of Chemical Probes for the Human N-myristoyltransferases. *Cell Chemical Biology*, **2019**, 26, 892-900.e4	8.2	18
105	Click chemistry armed enzyme-linked immunosorbent assay to measure palmitoylation by hedgehog acyltransferase. *Analytical Biochemistry*, **2015**, 490, 66-72	3.1	18
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102	Activity based chemical proteomics: profiling proteases as drug targets. *Current Drug Discovery Technologies*, **2008**, 5, 200-12	1.5	18
101	Modulation of Amide Bond Rotamers in 5-Acyl-6,7-dihydrothieno[3,2-c]pyridines. *Journal of Organic Chemistry*, **2015**, 80, 4370-7	4.2	17

100	Targeting STAT3 signaling using stabilised sulforaphane (SFX-01) inhibits endocrine resistant stem-like cells in ER-positive breast cancer. *Oncogene*, **2020**, 39, 4896-4908	9.2	17
99	Bat IFITM3 restriction depends on S-palmitoylation and a polymorphic site within the CD225 domain. *Life Science Alliance*, **2020**, 3,	5.8	17
98	Depsipeptides Featuring a Neutral P1 Are Potent Inhibitors of Kallikrein-Related Peptidase 6 with On-Target Cellular Activity. *Journal of Medicinal Chemistry*, **2018**, 61, 8859-8874	8.3	17
97	Re-Evaluating the Mechanism of Action of α,β-Unsaturated Carbonyl DUB Inhibitors b-AP15 and VLX1570: A Paradigmatic Example of Unspecific Protein Cross-linking with Michael Acceptor Motif-Containing Drugs. *Journal of Medicinal Chemistry*, **2020**, 63, 3756-3762	8.3	16
96	Acylation-coupled lipophilic induction of polarisation (Acyl-cLIP): a universal assay for lipid transferase and hydrolase enzymes. *Chemical Science*, **2019**, 10, 8995-9000	9.4	16
95	Application of activity-based protein profiling to the study of microbial pathogenesis. *Topics in Current Chemistry*, **2012**, 324, 115-35		16
94	Diastereoselective Anomeric Oxygen to Carbon Rearrangements of Silyl Enol Ether Derivatives of Lactols. *Synlett*, **1998**, 1998, 1093-1095	2.2	16
93	Faecal neutrophil elastase-antiprotease balance reflects colitis severity. *Mucosal Immunology*, **2020**, 13, 322-333	9.2	16
92	Structure-Guided Identification of Resistance Breaking Antimalarial N-Myristoyltransferase Inhibitors. *Cell Chemical Biology*, **2019**, 26, 991-1000.e7	8.2	15
91	Broad-Spectrum Regulation of Nonreceptor Tyrosine Kinases by the Bacterial ADP-Ribosyltransferase EspJ. *MBio*, **2018**, 9,	7.8	15
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88	Targeting a dynamic protein-protein interaction: fragment screening against the malaria myosin A motor complex. *ChemMedChem*, **2015**, 10, 134-43	3.7	15
87	Using a non-image-based medium-throughput assay for screening compounds targeting N-myristoylation in intracellular Leishmania amastigotes. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3363	4.8	15
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84	A new chemical handle for protein AMPylation at the host-pathogen interface. *ChemBioChem*, **2012** , 13, 183-5	3.8	14
83	Rab27a co-ordinates actin-dependent transport by controlling organelle-associated motors and track assembly proteins. *Nature Communications*, **2020**, 11, 3495	17.4	14

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80	Cholesterylation: a tail of hedgehog. *Biochemical Society Transactions*, **2015**, 43, 262-7	5.1	13
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71	Imaging of Chemotherapy-Induced Acute Cardiotoxicity with F-Labeled Lipophilic Cations. *Journal of Nuclear Medicine*, **2019**, 60, 1750-1756	8.9	10
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67	Synthesis and characterisation of 5-acyl-6,7-dihydrothieno[3,2-c]pyridine inhibitors of Hedgehog acyltransferase. *Data in Brief*, **2016**, 7, 257-81	1.2	9
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64	Structure-Guided Design and In-Cell Target Profiling of a Cell-Active Target Engagement Probe for PARP Inhibitors. *ACS Chemical Biology*, **2020**, 15, 325-333	4.9	9
63	BFSP1 C-terminal domains released by post-translational processing events can alter significantly the calcium regulation of AQP0 water permeability. *Experimental Eye Research*, **2019**, 185, 107585	3.7	8
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38	Novel Thienopyrimidine Inhibitors of -Myristoyltransferase with On-Target Activity in Intracellular Amastigotes. *Journal of Medicinal Chemistry*, **2020**, 63, 7740-7765	8.3	5
37	High-Throughput Kinetic Analysis for Target-Directed Covalent Ligand Discovery. *Angewandte Chemie*, **2018**, 130, 5355-5359	3.6	5
36	Peptide-based inhibitors of N-myristoyl transferase generated from a lipid/combinatorial peptide chimera library. *Signal Transduction*, **2006**, 6, 160-166		5
35	The synthesis of mono- and bicyclic ethers via acid catalysed ring-opening cyclisation of tetrahydropyranyl ether derivatives. *Journal of the Chemical Society, Perkin Transactions 1*, **2000**, 1829-1836		5
34	Chemical biology of noncanonical G protein-coupled receptor signaling: Toward advanced therapeutics. *Current Opinion in Chemical Biology*, **2020**, 56, 98-110	9.7	5
33	Peptide Probes for MyoA Tail Interacting Protein (MTIP): Exploring the Druggability of the Malaria Parasite Motor Complex. *ACS Chemical Biology*, **2020**, 15, 1313-1320	4.9	4
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23	Discovery of a Potent and Selective Covalent Inhibitor and Activity-Based Probe for the Deubiquitylating Enzyme UCHL1, with Anti-Fibrotic Activity		2
22	Discovery of a Potent and Selective Covalent Inhibitor and Activity-Based Probe for the Deubiquitylating Enzyme UCHL1, with Anti-Fibrotic Activity		2
21	Short chain fatty acids enhance expression and activity of the umami taste receptor in enteroendocrine cells via a G□i/o pathway		2
20	Structure and Mechanism of Hedgehog Acyl Transferase		2
19	Deconvoluting the biology and druggability of protein lipidation using chemical proteomics. *Current Opinion in Chemical Biology*, **2021**, 60, 97-112	9.7	2
18	Beyond targeted protein degradation: LD□ATTECs clear cellular lipid droplets. *Cell Research*, **2021**, 31, 945-946	24.7	2
17	CRISPR-TAPE: protein-centric CRISPR guide design for targeted proteome engineering. *Molecular Systems Biology*, **2020**, 16, e9475	12.2	1
16	Inhibition of protein N-myristoylation blocks Plasmodium falciparum intraerythrocytic development, egress and invasion. *PLoS Biology*, **2021**, 19, e3001408	9.7	1
15	Rab27a co-ordinates actin-dependent transport by controlling organelle-associated motors and track assembly proteins		1
14	Photochemical probe identification of the small-molecule binding site in a mammalian membrane-bound O-acyltransferase		1
13	Plasmodium falciparum protein Pfs16 is a target for transmission-blocking antimalarial drug development		1
12	A novel tubulin binding molecule drives differentiation of acute myeloid leukaemia cells		1
11	Activity-Based Protein Profiling. *Methods and Principles in Medicinal Chemistry*, **2019**, 51-95	0.4	1

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9	Stable Flow-induced Expression of KLK10 Inhibits Endothelial Inflammation and Atherosclerosis		1
8	Structure, mechanism, and inhibition of Hedgehog acyltransferase. *Molecular Cell*, **2021**,	17.6	1
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4	A Natural Product Puts Malaria on a Low-Fat Diet. *Cell Chemical Biology*, **2020**, 27, 137-139	8.2	
3	Chemical Probes for Proteins and Networks **2019**, 127-158		
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