Richard J Payne

List of Publications by Year in Descending Order

206 papers	5,960 citations	42 h-index	64 g-index
235 ext. papers	6,922 ext. citations	7.8 avg, IF	6.18 L-index

#	Paper	IF	Citations
206	Generation of oligonucleotide conjugates one-pot diselenide-selenoester ligation-deselenization/alkylation.. *Chemical Science*, **2022**, 13, 410-420	9.4	0
205	Diselenide-selenoester ligation in the chemical synthesis of proteins.. *Methods in Enzymology*, **2022**, 662, 363-399	1.7	
204	Immunological Assessment of Lung Responses to Inhalational Lipoprotein Vaccines Against Bacterial Pathogens. *Methods in Molecular Biology*, **2022**, 2414, 301-323	1.4	
203	Antiviral cyclic peptides targeting the main protease of SARS-CoV-2.. *Chemical Science*, **2022**, 13, 3826-3836	9.4	2
202	Side-Chain Anchoring Strategies for the Synthesis of Peptide Thioesters and Selenoesters. *Methods in Molecular Biology*, **2022**, 125-140	1.4	
201	Electrochemistry for the Chemoselective Modification of Peptides and Proteins.. *Journal of the American Chemical Society*, **2021**,	16.4	4
200	Potent Anti-SARS-CoV-2 Activity by the Natural Product Gallinamide A and Analogues via Inhibition of Cathepsin L. *Journal of Medicinal Chemistry*, **2021**,	8.3	4
199	Synthetic Sansanmycin Analogues as Potent Translocase I Inhibitors. *Journal of Medicinal Chemistry*, **2021**, 64, 17326-17345	8.3	2
198	Chemical Synthesis and Semisynthesis of Lipidated Proteins. *Angewandte Chemie - International Edition*, **2021**, e202111266	16.4	2
197	Total Synthesis of the Spider-Venom Peptide Hi1a. *Organic Letters*, **2021**, 23, 8375-8379	6.2	0
196	Chemical Synthesis of Phosphorylated Insulin-like Growth Factor Binding Protein 2. *Journal of the American Chemical Society*, **2021**, 143, 5336-5342	16.4	12
195	Glycosylation Regulates N-Terminal Proteolysis and Activity of the Chemokine CCL14. *ACS Chemical Biology*, **2021**, 16, 973-981	4.9	2
194	Discovery of Cyclic Peptide Ligands to the SARS-CoV-2 Spike Protein Using mRNA Display. *ACS Central Science*, **2021**, 7, 1001-1008	16.8	8
193	Potent Cyclic Peptide Inhibitors of FXIIa Discovered by mRNA Display with Genetic Code Reprogramming. *Journal of Medicinal Chemistry*, **2021**, 64, 7853-7876	8.3	3
192	Preparation, validation and use of a vasoactive tryptophan-derived hydroperoxide and relevant control compounds. *Nature Protocols*, **2021**, 16, 3382-3418	18.8	1
191	Potent Trivalent Inhibitors of Thrombin through Hybridization of Salivary Sulfopeptides from Hematophagous Arthropods. *Angewandte Chemie - International Edition*, **2021**, 60, 5348-5356	16.4	5
190	Sulfotyrosine-Mediated Recognition of Human Thrombin by a Tsetse Fly Anticoagulant Mimics Physiological Substrates. *Cell Chemical Biology*, **2021**, 28, 26-33.e8	8.2	7

189	Rapid one-pot iterative diselenide-selenoester ligation using a novel coumarin-based photolabile protecting group. *Chemical Science*, **2021**, 12, 10014-10021	9.4	7
188	Synthesis and evaluation of peptidic thrombin inhibitors bearing acid-stable sulfotyrosine analogues. *Chemical Communications*, **2021**, 57, 10923-10926	5.8	0
187	Synthetic protein conjugate vaccines provide protection against in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	11
186	BET-Family Bromodomains Can Recognize Diacetylated Sequences from Transcription Factors Using a Conserved Mechanism. *Biochemistry*, **2021**, 60, 648-662	3.2	3
185	Expanding Native Chemical Ligation Methodology with Synthetic Amino Acid Derivatives **2021**, 119-159		2
184	R□ktitelbild: Potent Trivalent Inhibitors of Thrombin through Hybridization of Salivary Sulfopeptides from Hematophagous Arthropods (Angew. Chem. 10/2021). *Angewandte Chemie*, **2021**, 133, 5632-5632	3.6	
183	A pain-causing and paralytic ant venom glycopeptide. *IScience*, **2021**, 24, 103175	6.1	1
182	Potent Trivalent Inhibitors of Thrombin through Hybridization of Salivary Sulfopeptides from Hematophagous Arthropods. *Angewandte Chemie*, **2021**, 133, 5408-5416	3.6	
181	Late-stage modification of peptides and proteins at cysteine with diaryliodonium salts. *Chemical Science*, **2021**, 12, 14159-14166	9.4	3
180	Solid-phase synthesis of coralmycin A/-coralmycin A and desmethoxycoralmycin A. *Organic and Biomolecular Chemistry*, **2021**, 19, 6291-6300	3.9	2
179	Semisynthesis of an evasin from tick saliva reveals a critical role of tyrosine sulfation for chemokine binding and inhibition. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12657-12664	11.5	15
178	Total Synthesis and Antimycobacterial Activity of Ohmyungsamycin A, Deoxyecumicin, and Ecumicin. *Chemistry - A European Journal*, **2020**, 26, 15200-15205	4.8	4
177	CHD4 slides nucleosomes by decoupling entry- and exit-side DNA translocation. *Nature Communications*, **2020**, 11, 1519	17.4	11
176	Total Synthesis and Antitrypanosomal Activity of Janadolide and Simplified Analogues. *Organic Letters*, **2020**, 22, 3089-3093	6.2	5
175	Discovery of Potent Cyclic Sulfopeptide Chemokine Inhibitors via Reprogrammed Genetic Code mRNA Display. *Journal of the American Chemical Society*, **2020**, 142, 9141-9146	16.4	8
174	Chemical synthesis of a haemathrin sulfoprotein library reveals enhanced thrombin inhibition following tyrosine sulfation. *RSC Chemical Biology*, **2020**, 1, 379-384	3	2
173	Potent anti-SARS-CoV-2 activity by gallinamide A and analogues via inhibition of cathepsin L **2020**,		9
172	Dissecting the Binding Interactions of Teixobactin with the Bacterial Cell-Wall Precursor Lipid II. *ChemBioChem*, **2020**, 21, 789-792	3.8	14

171	Synthesis and Utility of β-Selenophenylalanine and β-Selenoleucine in Diselenide-Selenoester Ligation. *Journal of Organic Chemistry*, **2020**, 85, 1567-1578	4.2	20
170	Peptide Ligation at High Dilution via Reductive Diselenide-Selenoester Ligation. *Journal of the American Chemical Society*, **2020**, 142, 1090-1100	16.4	36
169	Synthesis and structure-activity relationships of teixobactin. *Annals of the New York Academy of Sciences*, **2020**, 1459, 86-105	6.5	18
168	Cyclic peptides can engage a single binding pocket through highly divergent modes. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26728-26738	11.5	6
167	Nutritional and metabolic regulation of the metabolite dimethylguanidino valeric acid: an early marker of cardiometabolic disease. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 319, E509-E518	6	4
166	Revealing the functional roles of tyrosine sulfation using synthetic sulfopeptides and sulfoproteins. *Current Opinion in Chemical Biology*, **2020**, 58, 72-85	9.7	13
165	Lactoferrin-Derived Peptide Lactofungin Is Potently Synergistic with Amphotericin B. *Antimicrobial Agents and Chemotherapy*, **2020**, 64,	5.9	2
164	Total Synthesis of Glycosylated Human Interferon-β. *Organic Letters*, **2020**, 22, 6863-6867	6.2	8
163	Evaluation and extension of the two-site, two-step model for binding and activation of the chemokine receptor CCR1. *Journal of Biological Chemistry*, **2019**, 294, 3464-3475	5.4	11
162	Rapid assembly and profiling of an anticoagulant sulfoprotein library. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 13873-13878	11.5	20
161	Diselenide-selenoester ligation for chemical protein synthesis. *Nature Protocols*, **2019**, 14, 2229-2257	18.8	40
160	A simple linearization method unveils hidden enzymatic assay interferences. *Biophysical Chemistry*, **2019**, 252, 106193	3.5	5
159	Falcipain Inhibitors Based on the Natural Product Gallinamide A Are Potent in Vitro and in Vivo Antimalarials. *Journal of Medicinal Chemistry*, **2019**, 62, 5562-5578	8.3	13
158	A Solution to Chemical Pseudaminylation via a Bimodal Glycosyl Donor for Highly Stereocontrolled α- and β-Glycosylation. *Organic Letters*, **2019**, 21, 3584-3588	6.2	8
157	Mucosal Vaccination with a Self-Adjuvanted Lipopeptide Is Immunogenic and Protective against. *Journal of Medicinal Chemistry*, **2019**, 62, 8080-8089	8.3	17
156	Singlet molecular oxygen regulates vascular tone and blood pressure in inflammation. *Nature*, **2019**, 566, 548-552	50.4	51
155	Triarabinosylation is required for nodulation-suppressive CLE peptides to systemically inhibit nodulation in Pisum sativum. *Plant, Cell and Environment*, **2019**, 42, 188-197	8.4	21
154	CLE peptide tri-arabinosylation and peptide domain sequence composition are essential for SUNN-dependent autoregulation of nodulation in Medicago truncatula. *New Phytologist*, **2018**, 218, 73-80	8.8	29

153	Total Synthesis of Ecumicin. *Organic Letters*, **2018**, 20, 1019-1022	6.2	14
152	Rapid and efficient protein synthesis through expansion of the native chemical ligation concept. *Nature Reviews Chemistry*, **2018**, 2,	34.6	151
151	Interaction of N-terminal peptide analogues of the Na,K-ATPase with membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1282-1291	3.8	22
150	Mosquito-Derived Anophelin Sulfoproteins Are Potent Antithrombotics. *ACS Central Science*, **2018**, 4, 468-476	16.8	25
149	Diverse Peptide Hormones Affecting Root Growth Identified in the Secreted Peptidome. *Molecular and Cellular Proteomics*, **2018**, 17, 160-174	7.6	37
148	The CLAVATA receptor FASCIATED EAR2 responds to distinct CLE peptides by signaling through two downstream effectors. *ELife*, **2018**, 7,	8.9	46
147	Synthesis and evaluation of analogues of the glycinocin family of calcium-dependent antibiotics. *Organic and Biomolecular Chemistry*, **2018**, 16, 5310-5320	3.9	7
146	Peptide nucleic acid-templated selenocystine-selenoester ligation enables rapid miRNA detection. *Chemical Science*, **2018**, 9, 896-903	9.4	38
145	Native chemical ligation in protein synthesis and semi-synthesis. *Chemical Society Reviews*, **2018**, 47, 9046-9068	5.8	158
144	Construction of Challenging Proline-Proline Junctions via Diselenide-Selenoester Ligation Chemistry. *Journal of the American Chemical Society*, **2018**, 140, 13327-13334	16.4	40
143	Synthesis of a Self-Adjuvanting MUC1 Vaccine via Diselenide-Selenoester Ligation-Deselenization. *ACS Chemical Biology*, **2018**, 13, 3279-3285	4.9	22
142	A comprehensive portrait of the venom of the giant red bull ant, , reveals a hyperdiverse hymenopteran toxin gene family. *Science Advances*, **2018**, 4, eaau4640	14.3	42
141	Native Chemical Ligation-Photodesulfurization in Flow. *Journal of the American Chemical Society*, **2018**, 140, 9020-9024	16.4	37
140	Synthetic Studies Toward the Skyllamycins: Total Synthesis and Generation of Simplified Analogues. *Journal of Organic Chemistry*, **2018**, 83, 7250-7270	4.2	9
139	New tuberculosis drug leads from naturally occurring compounds. *International Journal of Infectious Diseases*, **2017**, 56, 212-220	10.5	56
138	Synthesis of a GlcNAcylated arginine building block for the solid phase synthesis of death domain glycopeptide fragments. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 2895-2900	3.4	4
137	Sansanmycin natural product analogues as potent and selective anti-mycobacterials that inhibit lipid I biosynthesis. *Nature Communications*, **2017**, 8, 14414	17.4	31
136	4-Nitrophenylchloroformate **2017**, 1-5		

135	Solid-phase synthesis of peptide selenoesters via a side-chain anchoring strategy. *Chemical Communications*, **2017**, 53, 5424-5427	5.8	26
134	Sulfation of the Human Cytomegalovirus Protein UL22A Enhances Binding to the Chemokine RANTES. *Angewandte Chemie - International Edition*, **2017**, 56, 8490-8494	16.4	24
133	Sulfation of the Human Cytomegalovirus Protein UL22A Enhances Binding to the Chemokine RANTES. *Angewandte Chemie*, **2017**, 129, 8610-8614	3.6	5
132	Accelerated Protein Synthesis via One-Pot Ligation-Deselenization Chemistry. *CheM*, **2017**, 2, 703-715	16.2	45
131	The cell surface mucin MUC1 limits the severity of influenza A virus infection. *Mucosal Immunology*, **2017**, 10, 1581-1593	9.2	73
130	Synthesis of Proteins by Native Chemical LigationDesulfurization Strategies **2017**, 161-222		6
129	Tyrosine sulfation modulates activity of tick-derived thrombin inhibitors. *Nature Chemistry*, **2017**, 9, 909-917	27.6	49
128	Synthesis of Norfijimycin A with Activity against Mycobacterium tuberculosis. *Australian Journal of Chemistry*, **2017**, 70, 229	1.2	2
127	Synthesis of rhamnosylated arginine glycopeptides and determination of the glycosidic linkage in bacterial elongation factor P. *Chemical Science*, **2017**, 8, 2296-2302	9.4	16
126	Structural requirements of flavonoids to induce heme oxygenase-1 expression. *Free Radical Biology and Medicine*, **2017**, 113, 165-175	7.8	22
125	Arabinosylation Modulates the Growth-Regulating Activity of the Peptide Hormone CLE40a from Soybean. *Cell Chemical Biology*, **2017**, 24, 1347-1355.e7	8.2	21
124	Multiplexed Temporal Quantification of the Exercise-regulated Plasma Peptidome. *Molecular and Cellular Proteomics*, **2017**, 16, 2055-2068	7.6	32
123	The Structural Basis for Complement Inhibition by Gigastasin, a Protease Inhibitor from the Giant Amazon Leech. *Journal of Immunology*, **2017**, 199, 3883-3891	5.3	8
122	Total Synthesis of Glycinocins A-C. *Journal of Organic Chemistry*, **2017**, 82, 12778-12785	4.2	6
121	Total Synthesis of Skyllamycins A-C. *Chemistry - A European Journal*, **2017**, 23, 15046-15049	4.8	7
120	Semisynthetic prion protein (PrP) variants carrying glycan mimics at position 181 and 197 do not form fibrils. *Chemical Science*, **2017**, 8, 6626-6632	9.4	17
119	Ticks from diverse genera encode chemokine-inhibitory evasin proteins. *Journal of Biological Chemistry*, **2017**, 292, 15670-15680	5.4	33
118	One-Pot Ligation-Oxidative Deselenization at Selenocysteine and Selenocystine. *Chemistry - A European Journal*, **2017**, 23, 946-952	4.8	34

117	Hydrogen-adduction to open-shell graphene fragments: spectroscopy, thermochemistry and astrochemistry. *Chemical Science*, **2017**, 8, 1186-1194	9.4	4
116	CCR7 Sulfotyrosine Enhances CCL21 Binding. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	12
115	Polysialylation controls dendritic cell trafficking by regulating chemokine recognition. *Science*, **2016**, 351, 186-90	33.3	97
114	Total Synthesis of Teixobactin. *Organic Letters*, **2016**, 18, 2788-91	6.2	70
113	Total Synthesis of Native 5,7-Diacetylpseudaminic Acid from N-Acetylneuraminic Acid. *Journal of Organic Chemistry*, **2016**, 81, 2607-11	4.2	18
112	Synthesis of polymers and nanoparticles bearing polystyrene sulfonate brushes for chemokine binding. *Organic and Biomolecular Chemistry*, **2016**, 14, 5652-8	3.9	8
111	PP1 initiates the dephosphorylation of MASTL, triggering mitotic exit and bistability in human cells. *Journal of Cell Science*, **2016**, 129, 1340-54	5.3	31
110	Single addition of an allylamine monomer enables access to end-functionalized RAFT polymers for native chemical ligation. *Chemical Communications*, **2016**, 52, 12952-12955	5.8	14
109	Homogeneous sulfopeptides and sulfoproteins: synthetic approaches and applications to characterize the effects of tyrosine sulfation on biochemical function. *Accounts of Chemical Research*, **2015**, 48, 2251-61	24.3	47
108	Synthesis of β-Thiol Phenylalanine for Applications in One-Pot Ligation-Desulfurization Chemistry. *Organic Letters*, **2015**, 17, 2070-3	6.2	29
107	Cyclic Peptides Incorporating Phosphotyrosine Mimetics as Potent and Specific Inhibitors of the Grb7 Breast Cancer Target. *Journal of Medicinal Chemistry*, **2015**, 58, 7707-18	8.3	17
106	Thiazolidine-Protected β-Thiol Asparagine: Applications in One-Pot Ligation-Desulfurization Chemistry. *Organic Letters*, **2015**, 17, 4902-5	6.2	29
105	Synthetic Amino Acids for Applications in Peptide Ligation-Desulfurization Chemistry. *Australian Journal of Chemistry*, **2015**, 68, 521	1.2	58
104	Rapid additive-free selenocystine-selenoester peptide ligation. *Journal of the American Chemical Society*, **2015**, 137, 14011-4	16.4	131
103	Synthesis and evaluation of phenoxymethylbenzamide analogues as anti-trypanosomal agents. *MedChemComm*, **2015**, 6, 403-406	5	4
102	Studies Toward the Total Synthesis and Stereochemical Assignment of Microspinosamide. *Australian Journal of Chemistry*, **2015**, 68, 1885	1.2	1
101	Oxidative Deselenization of Selenocysteine: Applications for Programmed Ligation at Serine. *Angewandte Chemie*, **2015**, 127, 12907-12912	3.6	28
100	A Defined α-Helix in the Bifunctional O-Glycosylated Natriuretic Peptide TcNPa from the Venom of Tropidechis carinatus. *Angewandte Chemie*, **2015**, 127, 4910-4913	3.6	

99	Oxidative Deselenization of Selenocysteine: Applications for Programmed Ligation at Serine. *Angewandte Chemie - International Edition*, **2015**, 54, 12716-21	16.4	69
98	A defined □helix in the bifunctional O-glycosylated natriuretic peptide TcNPa from the venom of Tropidechis carinatus. *Angewandte Chemie - International Edition*, **2015**, 54, 4828-31	16.4	6
97	Synthetic self-adjuvanting glycopeptide cancer vaccines. *Frontiers in Chemistry*, **2015**, 3, 60	5	44
96	Structure and inhibition of subunit I of the anthranilate synthase complex of Mycobacterium tuberculosis and expression of the active complex. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 2297-308		15
95	Phosphate modulates receptor sulfotyrosine recognition by the chemokine monocyte chemoattractant protein-1 (MCP-1/CCL2). *Organic and Biomolecular Chemistry*, **2015**, 13, 2162-9	3.9	13
94	Modern extensions of native chemical ligation for chemical protein synthesis. *Topics in Current Chemistry*, **2015**, 362, 27-87		18
93	Assessment of myeloperoxidase activity by the conversion of hydroethidine to 2-chloroethidium. *Journal of Biological Chemistry*, **2014**, 289, 5580-95	5.4	34
92	Peptide ligation chemistry at selenol amino acids. *Journal of Peptide Science*, **2014**, 20, 64-77	2.1	58
91	Trifluoroethanethiol: an additive for efficient one-pot peptide ligation-desulfurization chemistry. *Journal of the American Chemical Society*, **2014**, 136, 8161-4	16.4	104
90	Chemoselective sulfenylation and peptide ligation at tryptophan. *Chemical Science*, **2014**, 5, 260-266	9.4	60
89	Synthesis of full length and truncated microcin B17 analogues as DNA gyrase poisons. *Organic and Biomolecular Chemistry*, **2014**, 12, 1570-8	3.9	12
88	Structural basis of receptor sulfotyrosine recognition by a CC chemokine: the N-terminal region of CCR3 bound to CCL11/eotaxin-1. *Structure*, **2014**, 22, 1571-81	5.2	51
87	Synthesis and immunological evaluation of self-adjuvanting MUC1-macrophage activating lipopeptide 2 conjugate vaccine candidates. *Chemical Communications*, **2014**, 50, 10273-6	5.8	41
86	NMR characterization of cooperativity: fast ligand binding coupled to slow protein dimerization. *Chemical Science*, **2014**, 5, 2783-2788	9.4	4
85	Site-selective solid-phase synthesis of a CCR5 sulfopeptide library to interrogate HIV binding and entry. *ACS Chemical Biology*, **2014**, 9, 2074-81	4.9	18
84	One-pot peptide ligation-desulfurization at glutamate. *Organic Letters*, **2014**, 16, 290-3	6.2	69
83	Total synthesis of Polydiscamides B, C, and D via a convergent native chemical ligation-oxidation strategy. *Organic Letters*, **2014**, 16, 4500-3	6.2	11
82	Total Synthesis of Homogeneous Variants of Hirudin P6: A Post-Translationally Modified Anti-Thrombotic Leech-Derived Protein. *Angewandte Chemie*, **2014**, 126, 4028-4032	3.6	2

81	Total synthesis of homogeneous variants of hirudin P6: a post-translationally modified anti-thrombotic leech-derived protein. *Angewandte Chemie - International Edition*, **2014**, 53, 3947-51	16.4	28
80	Tyrosine sulfation of chemokine receptor CCR2 enhances interactions with both monomeric and dimeric forms of the chemokine monocyte chemoattractant protein-1 (MCP-1).. *Journal of Biological Chemistry*, **2014**, 289, 13362	5.4	4
79	Recent extensions to native chemical ligation for the chemical synthesis of peptides and proteins. *Current Opinion in Chemical Biology*, **2014**, 22, 70-8	9.7	118
78	Synthesis of gallinamide A analogues as potent falcipain inhibitors and antimalarials. *Journal of Medicinal Chemistry*, **2014**, 57, 10557-63	8.3	29
77	A common mechanism of clinical HIV-1 resistance to the CCR5 antagonist maraviroc despite divergent resistance levels and lack of common gp120 resistance mutations. *Retrovirology*, **2013**, 10, 43	3.6	50
76	Synthesis of homogeneous MUC1 oligomers via a bi-directional ligation strategy. *Organic and Biomolecular Chemistry*, **2013**, 11, 6090-6	3.9	8
75	Inhibition studies on Mycobacterium tuberculosis N-acetylglucosamine-1-phosphate uridyltransferase (GlmU). *Organic and Biomolecular Chemistry*, **2013**, 11, 8113-26	3.9	21
74	Sulfopeptide probes of the CXCR4/CXCL12 interface reveal oligomer-specific contacts and chemokine allostery. *ACS Chemical Biology*, **2013**, 8, 1955-63	4.9	41
73	Total synthesis of erythropoietin through the development and exploitation of enabling synthetic technologies. *Angewandte Chemie - International Edition*, **2013**, 52, 505-7	16.4	8
72	Totalsynthese von Erythropoietin: ein Ergebnis der Entwicklung wegbereitender Synthesetechniken. *Angewandte Chemie*, **2013**, 125, 525-528	3.6	3
71	Synthesis of peptides and glycopeptides with polyproline II helical topology as potential antifreeze molecules. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 3569-81	3.4	21
70	Peptide ligation-desulfurization chemistry at arginine. *ChemBioChem*, **2013**, 14, 559-63	3.8	78
69	Fragments of the bacterial toxin microcin B17 as gyrase poisons. *PLoS ONE*, **2013**, 8, e61459	3.7	26
68	Stereoselective synthesis of sialylated tumor-associated glycosylamino acids. *Organic Letters*, **2013**, 15, 5794-7	6.2	12
67	Tyrosine sulfation of chemokine receptor CCR2 enhances interactions with both monomeric and dimeric forms of the chemokine monocyte chemoattractant protein-1 (MCP-1). *Journal of Biological Chemistry*, **2013**, 288, 10024-10034	5.4	63
66	Chemoselective Peptide LigationDesulfurization at Aspartate. *Angewandte Chemie*, **2013**, 125, 9905-9909	3.6	19
65	Total synthesis of fellutamide B and deoxy-fellutamides B, C, and D. *Marine Drugs*, **2013**, 11, 2382-97	6	12
64	Chemoselective peptide ligation-desulfurization at aspartate. *Angewandte Chemie - International Edition*, **2013**, 52, 9723-7	16.4	98

63	Total synthesis of cyclocitropside A and its conversion to cyclocitropsides B and C via asparagine deamidation. *Organic Letters*, **2012**, 14, 5110-3	6.2	3
62	Synthesis and evaluation of M. tuberculosis salicylate synthase (MbtI) inhibitors designed to probe plasticity in the active site. *Organic and Biomolecular Chemistry*, **2012**, 10, 9223-36	3.9	16
61	Synthesis and protein binding studies of a peptide fragment of clathrin assembly protein AP180 bearing an O-linked ᴅN-acetylglucosaminyl-6-phosphate modification. *Organic and Biomolecular Chemistry*, **2012**, 10, 2545-51	3.9	5
60	Synthesis and immunological evaluation of self-assembling and self-adjuvanting tricomponent glycopeptide cancer-vaccine candidates. *Chemistry - A European Journal*, **2012**, 18, 16540-8	4.8	56
59	Photo-tautomerization of acetaldehyde to vinyl alcohol: a potential route to tropospheric acids. *Science*, **2012**, 337, 1203-6	33.3	79
58	Effect of O-glycosylation and tyrosine sulfation of leech-derived peptides on binding and inhibitory activity against thrombin. *Chemical Communications*, **2012**, 48, 1547-9	5.8	18
57	Implications of binding mode and active site flexibility for inhibitor potency against the salicylate synthase from Mycobacterium tuberculosis. *Biochemistry*, **2012**, 51, 4868-79	3.2	26
56	Synthesis and utility of ᴅselenol-phenylalanine for native chemical ligation-deselenization chemistry. *Organic Letters*, **2012**, 14, 3142-5	6.2	74
55	Identification of a catalytic exosite for complement component C4 on the serine protease domain of C1s. *Journal of Immunology*, **2012**, 189, 2365-73	5.3	22
54	Design and receptor interactions of obligate dimeric mutant of chemokine monocyte chemoattractant protein-1 (MCP-1). *Journal of Biological Chemistry*, **2012**, 287, 14692-702	5.4	40
53	Identification of selective inhibitors of indoleamine 2,3-dioxygenase 2. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 7641-6	2.9	42
52	Synthesis of the bacteriocin glycopeptide sublancin 168 and S-glycosylated variants. *Organic Letters* , **2012**, 14, 1910-3	6.2	36
51	Total Synthesis of Homogeneous Antifreeze Glycopeptides and Glycoproteins. *Angewandte Chemie*, **2012**, 124, 3666-3670	3.6	24
50	Total synthesis of homogeneous antifreeze glycopeptides and glycoproteins. *Angewandte Chemie - International Edition*, **2012**, 51, 3606-10	16.4	97
49	Elucidation of Mycobacterium tuberculosis type II dehydroquinase inhibitors using a fragment elaboration strategy. *ChemMedChem*, **2012**, 7, 1031-43	3.7	12
48	Inhibitors of an essential mycobacterial cell wall lipase (Rv3802c) as tuberculosis drug leads. *Chemical Communications*, **2011**, 47, 5166-8	5.8	32
47	Structural investigation of inhibitor designs targeting 3-dehydroquinate dehydratase from the shikimate pathway of Mycobacterium tuberculosis. *Biochemical Journal*, **2011**, 436, 729-39	3.8	33
46	The TB Structural Genomics Consortium: a decade of progress. *Tuberculosis*, **2011**, 91, 155-72	2.6	33

45	Divergent and site-selective solid-phase synthesis of sulfopeptides. *Chemistry - an Asian Journal*, **2011**, 6, 1316-20	4.5	24
44	Site-specific characterisation of densely O-glycosylated mucin-type peptides using electron transfer dissociation ESI-MS/MS. *Electrophoresis*, **2011**, 32, 3536-45	3.6	36
43	Synthesis and evaluation of potent ene-yne inhibitors of type II dehydroquinases as tuberculosis drug leads. *ChemMedChem*, **2011**, 6, 262-5	3.7	9
42	Self-Adjuvanting Multicomponent Cancer Vaccine Candidates Combining Per-Glycosylated MUC1 Glycopeptides and the Toll-like Receptor 2 Agonist Pam3CysSer. *Angewandte Chemie*, **2011**, 123, 1673-1677	3.6	38
41	Self-adjuvanting multicomponent cancer vaccine candidates combining per-glycosylated MUC1 glycopeptides and the Toll-like receptor 2 agonist Pam3CysSer. *Angewandte Chemie - International Edition*, **2011**, 50, 1635-9	16.4	130
40	Synthesis of MUC1 glycopeptide thioesters and ligation via direct aminolysis. *Biopolymers*, **2011**, 96, 137-46	2.6	14
39	Total synthesis, stereochemical assignment, and antimalarial activity of gallinamide A. *Chemistry - A European Journal*, **2011**, 17, 13544-52	4.8	34
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37	Self-assembling macromolecular chimeras: controlling fibrillization of a β-sheet forming peptide by polymer conjugation. *Soft Matter*, **2011**, 7, 3754	3.6	22
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