

Peter G Schultz

List of Publications by Citations

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218
papers

21,003
citations

80
h-index

141
g-index

222
ext. papers

23,587
ext. citations

12
avg, IF

6.96
L-index

#	Paper	IF	Citations
218	Adding new chemistries to the genetic code. <i>Annual Review of Biochemistry</i> , 2010 , 79, 413-44	29.1	1313
217	An expanded eukaryotic genetic code. <i>Science</i> , 2003 , 301, 964-7	33.3	621
216	Genomically recoded organisms expand biological functions. <i>Science</i> , 2013 , 342, 357-60	33.3	553
215	Addition of p-azido-L-phenylalanine to the genetic code of Escherichia coli. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9026-7	16.4	548
214	Expanding the genetic code. <i>Angewandte Chemie - International Edition</i> , 2004 , 44, 34-66	16.4	521
213	Addition of a photocrosslinking amino acid to the genetic code of Escherichiacoli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11020-4	11.5	517
212	Mitotic misregulation and human aging. <i>Science</i> , 2000 , 287, 2486-92	33.3	498
211	An enhanced system for unnatural amino acid mutagenesis in E. coli. <i>Journal of Molecular Biology</i> , 2010 , 395, 361-74	6.5	462
210	Expanding the genetic code. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2006 , 35, 225-49		456
209	Synthesis of site-specific antibody-drug conjugates using unnatural amino acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16101-6	11.5	433
208	A regenerative approach to the treatment of multiple sclerosis. <i>Nature</i> , 2013 , 502, 327-332	50.4	334
207	A chemical toolkit for proteins--an expanded genetic code. <i>Nature Reviews Molecular Cell Biology</i> , 2006 , 7, 775-82	48.7	325
206	Genetic incorporation of unnatural amino acids into proteins in mammalian cells. <i>Nature Methods</i> , 2007 , 4, 239-44	21.6	322
205	Addition of the keto functional group to the genetic code of Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 56-61	11.5	315
204	General approach to the synthesis of short .alpha.-helical peptides. <i>Journal of the American Chemical Society</i> , 1991 , 113, 9391-9392	16.4	292
203	Beyond the canonical 20 amino acids: expanding the genetic lexicon. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11039-44	5.4	244
202	Switch-mediated activation and retargeting of CAR-T cells for B-cell malignancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E459-68	11.5	240

201	An expanded genetic code with a functional quadruplet codon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 7566-71	11.5	237
200	Site-specific PEGylation of proteins containing unnatural amino acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5743-5	2.9	234
199	Efficient incorporation of unnatural amino acids into proteins in Escherichia coli. <i>Nature Methods</i> , 2006 , 3, 263-5	21.6	231
198	A general approach to site-specific antibody drug conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1766-71	11.5	230
197	A genetically encoded fluorescent amino acid. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8738-4	16.4	230
196	Generation of a bacterium with a 21 amino acid genetic code. <i>Journal of the American Chemical Society</i> , 2003 , 125, 935-9	16.4	220
195	A facile system for encoding unnatural amino acids in mammalian cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4052-5	16.4	217
194	A genetically encoded fluorescent amino acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9785-9	11.5	216
193	A genetically encoded infrared probe. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13984-5	16.4	214
192	A genetically encoded photocaged amino acid. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14306-7	16.4	211
191	Protein conjugation with genetically encoded unnatural amino acids. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 412-9	9.7	199
190	Site-directed spin labeling of a genetically encoded unnatural amino acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21637-42	11.5	196
189	Auranofin exerts broad-spectrum bactericidal activities by targeting thiol-redox homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4453-8	11.5	190
188	A versatile platform for single- and multiple-unnatural amino acid mutagenesis in Escherichia coli. <i>Biochemistry</i> , 2013 , 52, 1828-37	3.2	187
187	Ratiometric single-molecule studies of freely diffusing biomolecules. <i>Annual Review of Physical Chemistry</i> , 2001 , 52, 233-53	15.7	186
186	Control of protein phosphorylation with a genetically encoded photocaged amino acid. <i>Nature Chemical Biology</i> , 2007 , 3, 769-72	11.7	169
185	Versatile strategy for controlling the specificity and activity of engineered T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E450-8	11.5	167
184	An efficient system for the evolution of aminoacyl-tRNA synthetase specificity. <i>Nature Biotechnology</i> , 2002 , 20, 1044-8	44.5	166

183	Efforts toward the Expansion of the Genetic Alphabet: Information Storage and Replication with Unnatural Hydrophobic Base Pairs. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3274-3287	16.4	166
182	Optimized clinical performance of growth hormone with an expanded genetic code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9060-5	11.5	164
181	Adding amino acids to the genetic repertoire. <i>Current Opinion in Chemical Biology</i> , 2005 , 9, 548-54	9.7	164
180	A general approach for the generation of orthogonal tRNAs. <i>Chemistry and Biology</i> , 2001 , 8, 883-90		164
179	A new strategy for the site-specific modification of proteins in vivo. <i>Biochemistry</i> , 2003 , 42, 6735-46	3.2	161
178	Playing with the Molecules of Life. <i>ACS Chemical Biology</i> , 2018 , 13, 854-870	4.9	156
177	A genetically encoded photocaged tyrosine. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2728-31	16.4	154
176	In vivo incorporation of an alkyne into proteins in Escherichia coli. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 1521-4	2.9	146
175	A general and efficient method for the site-specific dual-labeling of proteins for single molecule fluorescence resonance energy transfer. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17664-5	16.4	145
174	Genetic incorporation of a small, environmentally sensitive, fluorescent probe into proteins in Saccharomyces cerevisiae. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12921-3	16.4	143
173	An evolved aminoacyl-tRNA synthetase with atypical polysubstrate specificity. <i>Biochemistry</i> , 2011 , 50, 1894-900	3.2	142
172	Reshaping antibody diversity. <i>Cell</i> , 2013 , 153, 1379-93	56.2	138
171	In vivo incorporation of unnatural amino acids to probe structure, dynamics, and ligand binding in a large protein by nuclear magnetic resonance spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9268-81	16.4	137
170	Genetic incorporation of multiple unnatural amino acids into proteins in mammalian cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14080-3	16.4	135
169	A genetically encoded boronate-containing amino acid. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8220-3	16.4	134
168	Synthesis of bispecific antibodies using genetically encoded unnatural amino acids. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9918-21	16.4	124
167	A genetically encoded fluorescent probe in mammalian cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12540-3	16.4	123
166	A genetically encoded bidentate, metal-binding amino acid. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 9239-42	16.4	121

165	Efforts toward Expansion of the Genetic Alphabet: Optimization of Interbase Hydrophobic Interactions. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7621-7632	16.4	121
164	Site-specific insertion of 3-aminotyrosine into subunit alpha2 of E. coli ribonucleotide reductase: direct evidence for involvement of Y730 and Y731 in radical propagation. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15060-71	16.4	117
163	A New Functional Suppressor tRNA/Aminoacyl-tRNA Synthetase Pair for the in Vivo Incorporation of Unnatural Amino Acids into Proteins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5010-5011	16.4	117
162	Evolution of amber suppressor tRNAs for efficient bacterial production of proteins containing nonnatural amino acids. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9148-51	16.4	116
161	Protein evolution with an expanded genetic code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17688-93	11.5	116
160	A metabolite-derived protein modification integrates glycolysis with KEAP1-NRF2 signalling. <i>Nature</i> , 2018 , 562, 600-604	50.4	116
159	Probing ion permeation and gating in a K ⁺ channel with backbone mutations in the selectivity filter. <i>Nature Neuroscience</i> , 2001 , 4, 239-46	25.5	115
158	Recombinant expression of selectively sulfated proteins in Escherichia coli. <i>Nature Biotechnology</i> , 2006 , 24, 1436-40	44.5	110
157	The site-specific incorporation of p-iodo-L-phenylalanine into proteins for structure determination. <i>Nature Biotechnology</i> , 2004 , 22, 1297-301	44.5	108
156	Site-specific DNA-antibody conjugates for specific and sensitive immuno-PCR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3731-6	11.5	106
155	Genetic incorporation of a metal-ion chelating amino acid into proteins as a biophysical probe. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2481-3	16.4	104
154	An expanding genetic code. <i>Methods</i> , 2005 , 36, 227-38	4.6	101
153	Evolution of cyclic peptide protease inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11052-6	11.5	100
152	Adding L-3-(2-Naphthyl)alanine to the genetic code of E. coli. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1836-7	16.4	97
151	Ribosomal route to small-molecule diversity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 418-25	16.4	94
150	Antitumor activity of a systemic STING-activating non-nucleotide cGAMP mimetic. <i>Science</i> , 2020 , 369, 993-999	33.3	94
149	Unnatural amino acid mutagenesis of green fluorescent protein. <i>Journal of Organic Chemistry</i> , 2003 , 68, 174-6	4.2	92
148	Enhancing protein stability with extended disulfide bonds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5910-5	11.5	92

147	Identification of human kinases involved in hepatitis C virus replication by small interference RNA library screening. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29-36	5.4	91
146	At the Interface of Chemical and Biological Synthesis: An Expanded Genetic Code. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016 , 8,	10.2	89
145	Probing protein-protein interactions with a genetically encoded photo-crosslinking amino acid. <i>ChemBioChem</i> , 2011 , 12, 1854-7	3.8	86
144	Two-dimensional IR spectroscopy of protein dynamics using two vibrational labels: a site-specific genetically encoded unnatural amino acid and an active site ligand. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11294-304	3.4	85
143	Adaptation of an orthogonal archaeal leucyl-tRNA and synthetase pair for four-base, amber, and opal suppression. <i>Biochemistry</i> , 2003 , 42, 9598-608	3.2	83
142	Site-specific incorporation of EN-crotonyllysine into histones. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7246-9	16.4	82
141	Efforts toward expansion of the genetic alphabet: structure and replication of unnatural base pairs. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10466-73	16.4	82
140	Incorporation of fluorotyrosines into ribonucleotide reductase using an evolved, polyspecific aminoacyl-tRNA synthetase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15942-5	16.4	81
139	Systematic chromosomal deletion of bacterial ribosomal protein genes. <i>Journal of Molecular Biology</i> , 2011 , 413, 751-61	6.5	81
138	Biosynthesis of a site-specific DNA cleaving protein. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13194-5	16.4	78
137	A genetically encoded diazirine photocrosslinker in Escherichia coli. <i>ChemBioChem</i> , 2007 , 8, 2210-4	3.8	77
136	Site-specific antibody-polymer conjugates for siRNA delivery. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13885-91	16.4	76
135	Efficient viral delivery system for unnatural amino acid mutagenesis in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11803-8	11.5	73
134	Genetically encoding phosphotyrosine and its nonhydrolyzable analog in bacteria. <i>Nature Chemical Biology</i> , 2017 , 13, 845-849	11.7	72
133	Design of allele-specific protein methyltransferase inhibitors. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11608-13	16.4	72
132	Progress toward an expanded eukaryotic genetic code. <i>Chemistry and Biology</i> , 2003 , 10, 511-9		71
131	A genetically encoded aza-Michael acceptor for covalent cross-linking of protein-receptor complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8411-7	16.4	70
130	A genetically encoded metabolically stable analogue of phosphotyrosine in Escherichia coli. <i>ACS Chemical Biology</i> , 2007 , 2, 474-8	4.9	69

129	Exploring the limits of codon and anticodon size. <i>Chemistry and Biology</i> , 2002 , 9, 237-44		69
128	Bispecific small molecule-antibody conjugate targeting prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17796-801	11.5	67
127	Evolution of multiple, mutually orthogonal prolyl-tRNA synthetase/tRNA pairs for unnatural amino acid mutagenesis in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14841-6	11.5	67
126	An improved system for the generation and analysis of mutant proteins containing unnatural amino acids in <i>Saccharomyces cerevisiae</i> . <i>Journal of Molecular Biology</i> , 2007 , 371, 112-22	6.5	66
125	Design of Switchable Chimeric Antigen Receptor T Cells Targeting Breast Cancer. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7520-4	16.4	65
124	Self-assembled antibody multimers through peptide nucleic acid conjugation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 340-6	16.4	64
123	Site-specific coupling and sterically controlled formation of multimeric antibody fab fragments with unnatural amino acids. <i>Journal of Molecular Biology</i> , 2011 , 406, 595-603	6.5	61
122	The chemistry of the antibody molecule. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4427-37	16.4	59
121	Crystal structures of apo wild-type <i>M. jannaschii</i> tyrosyl-tRNA synthetase (TyrRS) and an engineered TyrRS specific for O-methyl-L-tyrosine. <i>Protein Science</i> , 2005 , 14, 1340-9	6.3	58
120	Unnatural amino acid mutagenesis of fluorescent proteins. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10132-5	16.4	57
119	Genetically encoded alkenes in yeast. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 935-7	16.4	57
118	An archaeobacteria-derived glutamyl-tRNA synthetase and tRNA pair for unnatural amino acid mutagenesis of proteins in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2003 , 31, 6700-9	20.1	57
117	Exploring the potential impact of an expanded genetic code on protein function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6961-6	11.5	56
116	Evolution of proteins with genetically encoded "chemical warheads". <i>Journal of the American Chemical Society</i> , 2009 , 131, 9616-7	16.4	56
115	A genetically encoded epsilon-N-methyl lysine in mammalian cells. <i>ChemBioChem</i> , 2010 , 11, 1066-8	3.8	55
114	A Small Molecule Inhibits Deregulated NRF2 Transcriptional Activity in Cancer. <i>ACS Chemical Biology</i> , 2015 , 10, 2193-8	4.9	52
113	Genetic incorporation of histidine derivatives using an engineered pyrrolysyl-tRNA synthetase. <i>ACS Chemical Biology</i> , 2014 , 9, 1092-6	4.9	52
112	Recombinant thiopeptides containing noncanonical amino acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3615-20	11.5	49

111	Selective formation of covalent protein heterodimers with an unnatural amino acid. <i>Chemistry and Biology</i> , 2011 , 18, 299-303		49
110	Photocleavage of the polypeptide backbone by 2-nitrophenylalanine. <i>Chemistry and Biology</i> , 2009 , 16, 148-52		49
109	Structural plasticity of an aminoacyl-tRNA synthetase active site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6483-8	11.5	49
108	A concise and traceless linker strategy toward combinatorial libraries of 2,6,9-substituted purines. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8273-6	4.2	47
107	Genetic incorporation of unnatural amino acids into proteins in Mycobacterium tuberculosis. <i>PLoS ONE</i> , 2010 , 5, e9354	3.7	46
106	Immunochemical termination of self-tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11276-80	11.5	46
105	Conformational effects in biological catalysis: an antibody-catalyzed oxy-cope rearrangement. <i>Biochemistry</i> , 2000 , 39, 627-32	3.2	46
104	Small molecule-mediated inhibition of myofibroblast transdifferentiation for the treatment of fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4679-4684	11.5	42
103	Genetic Incorporation of ϵ -N-2-Hydroxyisobutyryl-lysine into Recombinant Histones. <i>ACS Chemical Biology</i> , 2015 , 10, 1599-603	4.9	42
102	Addition of an alpha-hydroxy acid to the genetic code of bacteria. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 722-5	16.4	42
101	Engineering a long-acting, potent GLP-1 analog for microstructure-based transdermal delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 4140-5	11.5	41
100	Synthesis and biological evaluation of myoseverin derivatives: microtubule assembly inhibitors. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 4497-500	8.3	40
99	Subcellular protein localization by using a genetically encoded fluorescent amino acid. <i>ChemBioChem</i> , 2011 , 12, 1818-21	3.8	39
98	Targeted Disruption of Myc-Max Oncoprotein Complex by a Small Molecule. <i>ACS Chemical Biology</i> , 2017 , 12, 2715-2719	4.9	38
97	Therapeutic applications of an expanded genetic code. <i>ChemBioChem</i> , 2014 , 15, 1721-9	3.8	38
96	A promiscuous aminoacyl-tRNA synthetase that incorporates cysteine, methionine, and alanine homologs into proteins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 6004-6	2.9	38
95	A vimentin binding small molecule leads to mitotic disruption in mesenchymal cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9903-E9912	11.5	37
94	Genetic Incorporation of a Reactive Isothiocyanate Group into Proteins. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10065-8	16.4	37

93	Efforts toward the direct experimental characterization of enzyme microenvironments: tyrosine100 in dihydrofolate reductase. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3478-81	16.4	37
92	Loss of CD4 T-cell-dependent tolerance to proteins with modified amino acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12821-6	11.5	37
91	A bacterial strain with a unique quadruplet codon specifying non-native amino acids. <i>ChemBioChem</i> , 2014 , 15, 1782-6	3.8	36
90	Recruiting cytotoxic T cells to folate-receptor-positive cancer cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12101-12104	16.4	36
89	Expanding the genetic repertoire of the methylotrophic yeast <i>Pichia pastoris</i> . <i>Biochemistry</i> , 2009 , 48, 2643-53	3.2	36
88	Immunological Evolution of Catalysis 2005 , 1-29		36
87	Protein Crosslinking by Genetically Encoded Noncanonical Amino Acids with Reactive Aryl Carbamate Side Chains. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5096-5100	16.4	34
86	Multiformat T-cell-engaging bispecific antibodies targeting human breast cancers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7022-7	16.4	34
85	Rapid dynamics of general transcription factor TFIIB binding during preinitiation complex assembly revealed by single-molecule analysis. <i>Genes and Development</i> , 2016 , 30, 2106-2118	12.6	34
84	One plasmid selection system for the rapid evolution of aminoacyl-tRNA synthetases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3845-7	2.9	32
83	Transition states. Trapping a transition state in a computationally designed protein bottle. <i>Science</i> , 2015 , 347, 863-867	33.3	31
82	Efficient expression of tyrosine-sulfated proteins in <i>E. coli</i> using an expanded genetic code. <i>Nature Protocols</i> , 2009 , 4, 1784-9	18.8	31
81	A biochemical screen for GroEL/GroES inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 786-9	2.9	30
80	Using unnatural amino acid mutagenesis to probe the regulation of PRMT1. <i>ACS Chemical Biology</i> , 2014 , 9, 649-55	4.9	30
79	A single mutation in the first transmembrane domain of yeast COX2 enables its allotopic expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5047-52	11.5	30
78	2-Sulfonylpyridines as Tunable, Cysteine-Reactive Electrophiles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8972-8979	16.4	30
77	Design of Potent and Proteolytically Stable Oxyntomodulin Analogs. <i>ACS Chemical Biology</i> , 2016 , 11, 324-8	4.9	29
76	Evolution of iron(II)-finger peptides by using a bipyridyl amino acid. <i>ChemBioChem</i> , 2014 , 15, 822-825	3.8	29

75	Stapled, Long-Acting Glucagon-like Peptide 2 Analog with Efficacy in Dextran Sodium Sulfate Induced Mouse Colitis Models. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 3218-3223	8.3	28
74	GroEL/ES inhibitors as potential antibiotics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3127-3134	13.4	28
73	Site-specific in vivo labeling of proteins for NMR studies. <i>ChemBioChem</i> , 2005 , 6, 55-8	3.8	28
72	Functional antibody CDR3 fusion proteins with enhanced pharmacological properties. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8295-8	16.4	27
71	Synthetase polyspecificity as a tool to modulate protein function. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 7502-4	2.9	27
70	Recombinant Macrocyclic Lanthipeptides Incorporating Non-Canonical Amino Acids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11646-11649	16.4	26
69	Functional human antibody CDR fusions as long-acting therapeutic endocrine agonists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1356-61	11.5	26
68	Sulfonamido-2-arylbenzoxazole GroEL/ES Inhibitors as Potent Antibacterials against Methicillin-Resistant Staphylococcus aureus (MRSA). <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 7345-7357	8.3	25
67	Genetically Encoded Fluorescent Probe for Detecting Sirtuins in Living Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12350-12353	16.4	25
66	A genetically encoded metallocene containing amino acid. <i>Tetrahedron</i> , 2007 , 63, 6182-6184	2.4	24
65	Enhancing Protein Stability with Genetically Encoded Noncanonical Amino Acids. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15997-16000	16.4	24
64	Functional Replacement of Histidine in Proteins To Generate Noncanonical Amino Acid Dependent Organisms. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3829-3832	16.4	23
63	Rational design of CXCR4 specific antibodies with elongated CDRs. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10557-60	16.4	23
62	Structural basis for the recognition of para-benzoyl-L-phenylalanine by evolved aminoacyl-tRNA synthetases. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6073-5	16.4	23
61	An antibody CDR3-erythropoietin fusion protein. <i>ACS Chemical Biology</i> , 2013 , 8, 2117-21	4.9	22
60	Rational design of a Kv1.3 channel-blocking antibody as a selective immunosuppressant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11501-11506	11.5	22
59	An antibody with a variable-region coiled-coil "knob" domain. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 132-5	16.4	21
58	Sensitive, multiplex and direct quantification of RNA sequences using a modified RASL assay. <i>Nucleic Acids Research</i> , 2014 , 42, 9146-57	20.1	21

57	A single functional group substitution in c5a breaks B cell and T cell tolerance and protects against experimental arthritis. <i>Arthritis and Rheumatology</i> , 2014 , 66, 610-21	9.5	20
56	Site-Specific Incorporation of EN-Crotonyllysine into Histones. <i>Angewandte Chemie</i> , 2012 , 124, 7358-7361	3.6	19
55	Phage-display evolution of tyrosine kinases with altered nucleotide specificity. <i>Biopolymers</i> , 2001 , 60, 220-8	2.2	19
54	Replacement of Thymidine by a Modified Base in the Escherichia coli Genome. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7272-5	16.4	19
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