

Peter G Schultz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Discovery and SAR studies of 3-amino-4-(phenylsulfonyl)tetrahydrothiophene 1,1-dioxides as non-electrophilic antioxidant response element (ARE) activators. <i>Bioorganic Chemistry</i> , 2021 , 108, 10461-10474	5.1	2
217	A synthetic 5,3-cross-link in the cell wall of rod-shaped Gram-positive bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
216	YAP-dependent proliferation by a small molecule targeting annexin A2. <i>Nature Chemical Biology</i> , 2021 , 17, 767-775	11.7	6
215	A short ORF-encoded transcriptional regulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
214	A PSMA-targeted bispecific antibody for prostate cancer driven by a small-molecule targeting ligand. <i>Science Advances</i> , 2021 , 7,	14.3	4
213	Semisynthesis of a Bacterium with Non-canonical Cell-Wall Cross-Links. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10910-10913	16.4	7
212	New Generation Oxyntomodulin Peptides with Improved Pharmacokinetic Profiles Exhibit Weight Reducing and Anti-Steatotic Properties in Mice. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1167-1176	6.3	14
211	Expanding the genetic code of the human hematopoietic system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8845-8849	11.5	5
210	Small-Molecule Stimulators of NRF1 Transcriptional Activity. <i>ChemBioChem</i> , 2020 , 21, 1816-1819	3.8	3
209	An orthogonal seryl-tRNA synthetase/tRNA pair for noncanonical amino acid mutagenesis in Escherichia coli. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115662	3.4	3
208	Engineering of a Potent, Long-Acting NPY2R Agonist for Combination with a GLP-1R Agonist as a Multi-Hormonal Treatment for Obesity. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 9660-9671	8.3	9
207	Antitumor activity of a systemic STING-activating non-nucleotide cGAMP mimetic. <i>Science</i> , 2020 , 369, 993-999	33.3	94
206	2-Sulfonylpyridines as Tunable, Cysteine-Reactive Electrophiles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8972-8979	16.4	30
205	A General Strategy for Engineering Noncanonical Amino Acid Dependent Bacterial Growth. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16213-16216	16.4	8
204	A Single Reactive Noncanonical Amino Acid Is Able to Dramatically Stabilize Protein Structure. <i>ACS Chemical Biology</i> , 2019 , 14, 1150-1153	4.9	9
203	Toward a Synthetic Yeast Endosymbiont with a Minimal Genome. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13799-13802	16.4	5
202	Site-Specific Incorporation of a Dithiolane Containing Amino Acid into Proteins. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2102-2105	6.3	5

201	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
200	Progress toward a reduced phage genetic code. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 5247-5252	3.4	2
199	Playing with the Molecules of Life. <i>ACS Chemical Biology</i> , 2018 , 13, 854-870	4.9	156
198	Site-Specific Incorporation of a Thioester Containing Amino Acid into Proteins. <i>ACS Chemical Biology</i> , 2018 , 13, 578-581	4.9	15
197	The genetic incorporation of p-azidomethyl-L-phenylalanine into proteins in yeast. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1570-1573	2.9	1
196	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
195	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
194	Activities of recombinant human bleomycin hydrolase on bleomycins and engineered analogues revealing new opportunities to overcome bleomycin-induced pulmonary toxicity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 2670-2674	2.9	5
193	Visualization of the Delivery and Release of Small RNAs Using Genetic Code Expansion and Unnatural RNA-Binding Proteins. <i>Bioconjugate Chemistry</i> , 2018 , 29, 3982-3986	6.3	5
192	Enhancing Protein Stability with Genetically Encoded Noncanonical Amino Acids. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15997-16000	16.4	24
191	A metabolite-derived protein modification integrates glycolysis with KEAP1-NRF2 signalling. <i>Nature</i> , 2018 , 562, 600-604	50.4	116
190	Engineering yeast endosymbionts as a step toward the evolution of mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11796-11801	11.5	17
189	Bacterial Genome Containing Chimeric DNA-RNA Sequences. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11464-11473	16.4	6
188	Generation of an Orthogonal Protein-Protein Interface with a Noncanonical Amino Acid. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5728-5731	16.4	13
187	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
186	A Strategy for Creating Organisms Dependent on Noncanonical Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9170-9173	16.4	14
185	Construction and Screening of a Lentiviral Secretome Library. <i>Cell Chemical Biology</i> , 2017 , 24, 767-771.e3	3.2	5
184	Genetically encoding phosphotyrosine and its nonhydrolyzable analog in bacteria. <i>Nature Chemical Biology</i> , 2017 , 13, 845-849	11.7	72

183	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
182	Protein Crosslinking by Genetically Encoded Noncanonical Amino Acids with Reactive Aryl Carbamate Side Chains. <i>Angewandte Chemie</i> , 2017 , 129, 5178-5182	3.6	8
181	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
180	Targeted Disruption of Myc-Max Oncoprotein Complex by a Small Molecule. <i>ACS Chemical Biology</i> , 2017 , 12, 2715-2719	4.9	38
179	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
178	A Strategy for Creating Organisms Dependent on Noncanonical Amino Acids. <i>Angewandte Chemie</i> , 2017 , 129, 9298-9301	3.6	2
177	Recombinant Macrocyclic Lanthipeptides Incorporating Non-Canonical Amino Acids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11646-11649	16.4	26
176	Engineering Bifunctional Antibodies with Constant Region Fusion Architectures. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18607-18615	16.4	7
175	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
174	Genetic Incorporation of a Reactive Isothiocyanate Group into Proteins. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10065-8	16.4	37
173	Replacement of 2'-Deoxycytidine by 2'-Deoxycytidine Analogues in the E. coli Genome. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14230-14233	16.4	15
172	Design of Switchable Chimeric Antigen Receptor T Cells Targeting Breast Cancer. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7520-4	16.4	65
171	Dual Unnatural Amino Acid Incorporation and Click-Chemistry Labeling to Enable Single-Molecule FRET Studies of p97 Folding. <i>ChemBioChem</i> , 2016 , 17, 981-4	3.8	16
170	GroEL/ES inhibitors as potential antibiotics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3127-3134	3.4	28
169	Design of Potent and Proteolytically Stable Oxyntomodulin Analogs. <i>ACS Chemical Biology</i> , 2016 , 11, 324-8	4.9	29
168	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
167	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
166	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

165	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
164	Design of Switchable Chimeric Antigen Receptor T Cells Targeting Breast Cancer. <i>Angewandte Chemie</i> , 2016 , 128, 7646-7650	3.6	5
163	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
162	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
161	Stabilizing Protein Motifs with a Genetically Encoded Metal-Ion Chelator. <i>Cell Chemical Biology</i> , 2016 , 23, 1098-1102	8.2	13
160	Targeting the HSP60/10 chaperonin systems of Trypanosoma brucei as a strategy for treating African sleeping sickness. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 5247-5253	2.9	18
159	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
158	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
157	Genetic Incorporation of a Reactive Isothiocyanate Group into Proteins. <i>Angewandte Chemie</i> , 2016 , 128, 10219-10222	3.6	12
156	Homogeneously modified immunoglobulin domains for therapeutic application. <i>Current Opinion in Chemical Biology</i> , 2015 , 28, 66-74	9.7	12
155	Genetic Incorporation of ϵ N-2-Hydroxyisobutyryl-lysine into Recombinant Histones. <i>ACS Chemical Biology</i> , 2015 , 10, 1599-603	4.9	42
154	Rational design of antibody protease inhibitors. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4042-5	16.4	12
153	Multiformat T-cell-engaging bispecific antibodies targeting human breast cancers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7022-7	16.4	34
152	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
151	A Small Molecule Inhibits Deregulated NRF2 Transcriptional Activity in Cancer. <i>ACS Chemical Biology</i> , 2015 , 10, 2193-8	4.9	52
150	Rational design of humanized dual-agonist antibodies. <i>Journal of the American Chemical Society</i> , 2015 , 137, 38-41	16.4	16
149	Multiformat T-Cell-Engaging Bispecific Antibodies Targeting Human Breast Cancers. <i>Angewandte Chemie</i> , 2015 , 127, 7128-7133	3.6	6
148	An Epitope-Specific Respiratory Syncytial Virus Vaccine Based on an Antibody Scaffold. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14531-4	16.4	9

147	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
146	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
145	Rational design of a humanized glucagon-like peptide-1 receptor agonist antibody. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2126-30	16.4	18
144	Transition states. Trapping a transition state in a computationally designed protein bottle. <i>Science</i> , 2015 , 347, 863-867	33.3	31
143	Evolution of iron(II)-finger peptides by using a bipyridyl amino acid. <i>ChemBioChem</i> , 2014 , 15, 822-825	3.8	29
142	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
141	A bacterial strain with a unique quadruplet codon specifying non-native amino acids. <i>ChemBioChem</i> , 2014 , 15, 1782-6	3.8	36
140	A biochemical screen for GroEL/GroES inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 786-9	2.9	30
139	Targeting Human C-Type Lectin-like Molecule-1 (CLL1) with a Bispecific Antibody for Immunotherapy of Acute Myeloid Leukemia. <i>Angewandte Chemie</i> , 2014 , 126, 9999-10003	3.6	1
138	Using unnatural amino acid mutagenesis to probe the regulation of PRMT1. <i>ACS Chemical Biology</i> , 2014 , 9, 649-55	4.9	30
137	Genetic incorporation of histidine derivatives using an engineered pyrrolysyl-tRNA synthetase. <i>ACS Chemical Biology</i> , 2014 , 9, 1092-6	4.9	52
136	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
135	Rational design of CXCR4 specific antibodies with elongated CDRs. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10557-60	16.4	23
134	Therapeutic applications of an expanded genetic code. <i>ChemBioChem</i> , 2014 , 15, 1721-9	3.8	38
133	Role of tRNA orthogonality in an expanded genetic code. <i>ACS Chemical Biology</i> , 2014 , 9, 874-9	4.9	13
132	An Antibody with a Variable-Region Coiled-Coil Knob Domain. <i>Angewandte Chemie</i> , 2014 , 126, 136-139	3.6	3
131	A CXCR4-Targeted Site-Specific Antibody Drug Conjugate. <i>Angewandte Chemie</i> , 2014 , 126, 12057-12061	3.6	3
130	An antibody with a variable-region coiled-coil "knob" domain. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 132-5	16.4	21

129	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
128	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
127	Site-specific antibody-polymer conjugates for siRNA delivery. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13885-91	16.4	76
126	Protein conjugation with genetically encoded unnatural amino acids. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 412-9	9.7	199
125	A regenerative approach to the treatment of multiple sclerosis. <i>Nature</i> , 2013 , 502, 327-332	50.4	334
124	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
123	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
122	Genomically recoded organisms expand biological functions. <i>Science</i> , 2013 , 342, 357-60	33.3	553
121	A genetically encoded fluorescent probe in mammalian cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12540-3	16.4	123
120	Self-assembled antibody multimers through peptide nucleic acid conjugation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 340-6	16.4	64
119	Reshaping antibody diversity. <i>Cell</i> , 2013 , 153, 1379-93	56.2	138
118	Recruiting cytotoxic T cells to folate-receptor-positive cancer cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12101-12104	16.4	36
117	A versatile platform for single- and multiple-unnatural amino acid mutagenesis in Escherichia coli. <i>Biochemistry</i> , 2013 , 52, 1828-37	3.2	187
116	An antibody CDR3-erythropoietin fusion protein. <i>ACS Chemical Biology</i> , 2013 , 8, 2117-21	4.9	22
115	Functional antibody CDR3 fusion proteins with enhanced pharmacological properties. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8295-8	16.4	27
114	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
113	Functional Antibody CDR3 Fusion Proteins with Enhanced Pharmacological Properties. <i>Angewandte Chemie</i> , 2013 , 125, 8453-8456	3.6	5
112	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

111	Ribosomal route to small-molecule diversity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 418-2516.4	94
110	Unnatural amino acid mutagenesis of fluorescent proteins. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10132-5	16.4 57
109	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
108	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
107	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
106	Site-Specific Incorporation of EN-Crotonyllysine into Histones. <i>Angewandte Chemie</i> , 2012 , 124, 7358-7361.6	19
105	Site-specific incorporation of EN-crotonyllysine into histones. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7246-9	16.4 82
104	An evolved aminoacyl-tRNA synthetase with atypical polysubstrate specificity. <i>Biochemistry</i> , 2011 , 50, 1894-900	3.2 142
103	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
102	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
101	Systematic chromosomal deletion of bacterial ribosomal protein genes. <i>Journal of Molecular Biology</i> , 2011 , 413, 751-61	6.5 81
100	Synthetase polyspecificity as a tool to modulate protein function. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 7502-4	2.9 27
99	Chemische Kontrolle des Schicksals und Entwicklungspotenzials von Stammzellen. <i>Angewandte Chemie</i> , 2011 , 123, 210-256	3.6 13
98	Pan-Src Family Kinase Inhibitors Replace Sox2 during the Direct Reprogramming of Somatic Cells. <i>Angewandte Chemie</i> , 2011 , 123, 5852-5854	3.6 2
97	Stepwise Chemically Induced Cardiomyocyte Specification of Human Embryonic Stem Cells. <i>Angewandte Chemie</i> , 2011 , 123, 11377-11381	3.6 3
96	A Small Molecule Modulates Circadian Rhythms through Phosphorylation of the Period Protein. <i>Angewandte Chemie</i> , 2011 , 123, 10796-10799	3.6 1
95	Probing protein-protein interactions with a genetically encoded photo-crosslinking amino acid. <i>ChemBioChem</i> , 2011 , 12, 1854-7	3.8 86
94	Subcellular protein localization by using a genetically encoded fluorescent amino acid. <i>ChemBioChem</i> , 2011 , 12, 1818-21	3.8 39

93	Selective formation of covalent protein heterodimers with an unnatural amino acid. <i>Chemistry and Biology</i> , 2011 , 18, 299-303		49
92	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
91	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
90	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
89	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
88	Genetic incorporation of unnatural amino acids into proteins in <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2010 , 5, e9354	3.7	46
87	A single mutation in the first transmembrane domain of yeast COX2 enables its allotropic expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5047-52	11.5	30
86	Beyond the canonical 20 amino acids: expanding the genetic lexicon. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11039-44	5.4	244
85	Adding new chemistries to the genetic code. <i>Annual Review of Biochemistry</i> , 2010 , 79, 413-44	29.1	1313
84	An enhanced system for unnatural amino acid mutagenesis in <i>E. coli</i> . <i>Journal of Molecular Biology</i> , 2010 , 395, 361-74	6.5	462
83	A genetically encoded epsilon-N-methyl lysine in mammalian cells. <i>ChemBioChem</i> , 2010 , 11, 1066-8	3.8	55
82	A New Strategy to Photoactivate Green Fluorescent Protein. <i>Angewandte Chemie</i> , 2010 , 122, 7843-7845	3.6	6
81	Genetically encoded alkenes in yeast. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 935-7	16.4	57
80	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
79	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
78	A facile system for encoding unnatural amino acids in mammalian cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4052-5	16.4	217
77	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
76	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

75	Photocleavage of the polypeptide backbone by 2-nitrophenylalanine. <i>Chemistry and Biology</i> , 2009 , 16, 148-52		49
74	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
73	Evolution of proteins with genetically encoded "chemical warheads". <i>Journal of the American Chemical Society</i> , 2009 , 131, 9616-7	16.4	56
72	Genetic incorporation of a small, environmentally sensitive, fluorescent probe into proteins in <i>Saccharomyces cerevisiae</i> . <i>Journal of the American Chemical Society</i> , 2009 , 131, 12921-3	16.4	143
71	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
70	Expanding the genetic repertoire of the methylotrophic yeast <i>Pichia pastoris</i> . <i>Biochemistry</i> , 2009 , 48, 2643-53	3.2	36
69	Biosynthesis of a site-specific DNA cleaving protein. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13194-5	16.4	78
68	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
67	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
66	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
65	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
64	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
63	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
62	A genetically encoded boronate-containing amino acid. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8220-3	16.4	134
61	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
60	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
59	A genetically encoded metabolically stable analogue of phosphotyrosine in <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2007 , 2, 474-8	4.9	69
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