Tom W Muir

List of Publications by Year
in descending order

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233 papers	26,422 citations	5248 83 h-index	6979 154 g-index
255 all docs	255 docs citations	255 times ranked	20922 citing authors

#	Article	IF	Citations
1	Synthesis of Oriented Hexasomes and Asymmetric Nucleosomes Using a Template Editing Process. Journal of the American Chemical Society, 2022, 144, 2284-2291.	6.6	5
2	A Genetically Encoded Approach for Breaking Chromatin Symmetry. ACS Central Science, 2022, 8, 176-183.	5.3	4
3	Histone H3Q5 serotonylation stabilizes H3K4 methylation and potentiates its readout. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
4	Oncohistone mutations enhance chromatin remodeling and alter cell fates. Nature Chemical Biology, 2021, 17, 403-411.	3.9	50
5	Engineering of a Peptide Î±â€Nâ€Methyltransferase to Methylate Nonâ€Proteinogenic Amino Acids. Angewandte Chemie, 2021, 133, 14440-14444.	1.6	0
6	Engineering of a Peptide Î±â€Nâ€Methyltransferase to Methylate Nonâ€Proteinogenic Amino Acids. Angewandte Chemie - International Edition, 2021, 60, 14319-14323.	7.2	10
7	Molecular Epigenetics: Chemical Biology Tools Come of Age. Annual Review of Biochemistry, 2021, 90, 287-320.	5.0	9
8	DOT1L complex regulates transcriptional initiation in human erythroleukemic cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
9	Janus Bioparticles: Asymmetric Nucleosomes and Their Preparation Using Chemical Biology Approaches. Accounts of Chemical Research, 2021, 54, 3215-3227.	7.6	8
10	Chromatin landscape signals differentially dictate the activities of mSWI/SNF family complexes. Science, 2021, 373, 306-315.	6.0	64
11	Synthesis of ADP-Ribosylated Histones Reveals Site-Specific Impacts on Chromatin Structure and Function. Journal of the American Chemical Society, 2021, 143, 10847-10852.	6.6	26
12	Reactive intermediates for interactome mapping. Chemical Society Reviews, 2021, 50, 2911-2926.	18.7	35
13	Chemical biology approaches to study histone interactors. Biochemical Society Transactions, 2021, 49, 2431-2441.	1.6	2
14	Impaired cell fate through gain-of-function mutations in a chromatin reader. Nature, 2020, 577, 121-126.	13.7	84
15	The Chaperone FACT and Histone H2B Ubiquitination Maintain S.Âpombe Genome Architecture through Genic and Subtelomeric Functions. Molecular Cell, 2020, 77, 501-513.e7.	4.5	32
16	A basic motif anchoring ISWI to nucleosome acidic patch regulates nucleosome spacing. Nature Chemical Biology, 2020, 16, 134-142.	3.9	51
17	Chemoenzymatic Semisynthesis of Proteins. Chemical Reviews, 2020, 120, 3051-3126.	23.0	142
18	Bisphosphoglycerate Mutase Deficiency Protects against Cerebral Malaria and Severe Malaria-Induced Anemia. Cell Reports, 2020, 32, 108170.	2.9	7

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19	Single-molecule and in silico dissection of the interaction between Polycomb repressive complex 2 and chromatin. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30465-30475.	3.3	41
20	The nucleosome acidic patch and H2A ubiquitination underlie mSWI/SNF recruitment in synovial sarcoma. Nature Structural and Molecular Biology, 2020, 27, 836-845.	3.6	32
21	Discovery of quorum quenchers targeting the membrane-embedded sensor domain of theStaphylococcus aureusreceptor histidine kinase, AgrC. Chemical Communications, 2020, 56, 11223-11226.	2.2	19
22	H2B ubiquitylation enhances H3K4 methylation activities of human KMT2 family complexes. Nucleic Acids Research, 2020, 48, 5442-5456.	6.5	29
23	Live-cell protein engineering with an ultra-short split intein. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12041-12049.	3.3	29
24	In situ chromatin interactomics using a chemical bait and trap approach. Nature Chemistry, 2020, 12, 520-527.	6.6	53
25	Chromatin as a key consumer in the metabolite economy. Nature Chemical Biology, 2020, 16, 620-629.	3.9	50
26	Proximity Induced Splicing Utilizing Caged Split Inteins. Journal of the American Chemical Society, 2019, 141, 13708-13712.	6.6	16
27	Determining the Spheroid Geometry of Individual Metallic Nanoparticles by Two-Dimensional Single-Particle Dynamic Light Scattering. Journal of Physical Chemistry C, 2019, 123, 18565-18572.	1.5	2
28	Protein engineering through tandem transamidation. Nature Chemistry, 2019, 11, 737-743.	6.6	32
29	Single-Particle Dynamic Light Scattering: Shapes of Individual Nanoparticles. Nano Letters, 2019, 19, 5530-5536.	4.5	21
30	PRC2 engages a bivalent H3K27M-H3K27me3 dinucleosome inhibitor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22152-22157.	3.3	33
31	Nucleation and Propagation of Heterochromatin by the Histone Methyltransferase PRC2: Geometric Constraints and Impact of the Regulatory Subunit JARID2. Journal of the American Chemical Society, 2019, 141, 15029-15039.	6.6	16
32	PFA ependymoma-associated protein EZHIP inhibits PRC2 activity through a H3 K27M-like mechanism. Nature Communications, 2019, 10, 2146.	5.8	136
33	Identification of a DNA N6-Adenine Methyltransferase Complex and Its Impact on Chromatin Organization. Cell, 2019, 177, 1781-1796.e25.	13.5	81
34	The expanding landscape of â€˜oncohistoneâ€™ mutations in human cancers. Nature, 2019, 567, 473-478.	13.7	271
35	Histone serotonylation is a permissive modification that enhances TFIID binding to H3K4me3. Nature, 2019, 567, 535-539.	13.7	292
36	Barcoding mit NukleinsÃuren: Anwendung der DNAâ€Sequenzierung als molekulares ZÃhlwerk. Angewandte Chemie, 2019, 131, 4188-4207.	1.6	2

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37	Histone H3 tail binds a unique sensing pocket in EZH2 to activate the PRC2 methyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8295-8300.	3.3	71
38	Nucleic Acidâ€Barcoding Technologies: Converting DNA Sequencing into a Broadâ€Spectrum Molecular Counter. Angewandte Chemie - International Edition, 2019, 58, 4144-4162.	7.2	22
39	Identification of a Molecular Latch that Regulates Staphylococcal Virulence. Cell Chemical Biology, 2019, 26, 548-558.e4.	2.5	18
40	Recurrent SMARCB1 Mutations Reveal a Nucleosome Acidic Patch Interaction Site That Potentiates mSWI/SNF Complex Chromatin Remodeling. Cell, 2019, 179, 1342-1356.e23.	13.5	72
41	JASPer controls interphase histone H3S10 phosphorylation by chromosomal kinase JIL-1 in Drosophila. Nature Communications, 2019, 10, 5343.	5.8	18
42	Functional crosstalk between histone H2B ubiquitylation and H2A modifications and variants. Nature Communications, 2018, 9, 1394.	5.8	59
43	How many human proteoforms are there?. Nature Chemical Biology, 2018, 14, 206-214.	3.9	580
44	HELLS and CDCA7 comprise a bipartite nucleosome remodeling complex defective in ICF syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E876-E885.	3.3	88
45	A Chemical Probe for Protein Crotonylation. Journal of the American Chemical Society, 2018, 140, 4757-4760.	6.6	44
46	Improved protein splicing using embedded split inteins. Protein Science, 2018, 27, 614-619.	3.1	15
47	Crosstalk among Set1 complex subunits involved in H2B ubiquitylation-dependent H3K4 methylation. Nucleic Acids Research, 2018, 46, 11129-11143.	6.5	19
48	An Atypical Mechanism of Split Intein Molecular Recognition and Folding. Journal of the American Chemical Society, 2018, 140, 11791-11799.	6.6	15
49	Acetylation blocks DNA damageâ€“induced chromatin ADP-ribosylation. Nature Chemical Biology, 2018, 14, 837-840.	3.9	66
50	Functional Plasticity of the AgrC Receptor Histidine Kinase Required for Staphylococcal Virulence. Cell Chemical Biology, 2017, 24, 76-86.	2.5	25
51	Genomic targeting of epigenetic probes using a chemically tailored Cas9 system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 681-686.	3.3	53
52	A molecular engineering toolbox for the structural biologist. Quarterly Reviews of Biophysics, 2017, 50, e7.	2.4	42
53	Emerging Chemistry Strategies for Engineering Native Chromatin. Journal of the American Chemical Society, 2017, 139, 9090-9096.	6.6	25
54	Intein Zymogens: Conditional Assembly and Splicing of Split Inteins via Targeted Proteolysis. Journal of the American Chemical Society, 2017, 139, 8074-8077.	6.6	39

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55	Surface-attached molecules control Staphylococcus aureus quorum sensing and biofilm development. Nature Microbiology, 2017, 2, 17080.	5.9	95
56	Molecular analysis of PRC2 recruitment to DNA in chromatin and its inhibition by RNA. Nature Structural and Molecular Biology, 2017, 24, 1028-1038.	3.6	186
57	A promiscuous split intein with expanded protein engineering applications. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8538-8543.	3.3	102
58	ISWI chromatin remodellers sense nucleosome modifications to determine substrate preference. Nature, 2017, 548, 607-611.	13.7	148
59	Long-term hepatitis B infection in a scalable hepatic co-culture system. Nature Communications, 2017, 8, 125.	5.8	58
60	Bisphosphoglycerate mutase controls serine pathway flux via 3-phosphoglycerate. Nature Chemical Biology, 2017, 13, 1081-1087.	3.9	47
61	Ubiquitin utilizes an acidic surface patch to alter chromatin structure. Nature Chemical Biology, 2017, 13, 105-110.	3.9	79
62	Evidence that ubiquitylated H2B corrals hDot1L on the nucleosomal surface to induce H3K79 methylation. Nature Communications, 2016, 7, 10589.	5.8	59
63	Histone H3K36 mutations promote sarcomagenesis through altered histone methylation landscape. Science, 2016, 352, 844-849.	6.0	327
64	A two-state activation mechanism controls the histone methyltransferase Suv39h1. Nature Chemical Biology, 2016, 12, 188-193.	3.9	90
65	Design of a Split Intein with Exceptional Protein Splicing Activity. Journal of the American Chemical Society, 2016, 138, 2162-2165.	6.6	133
66	Regulation of Virulence in Staphylococcus aureus : Molecular Mechanisms and Remaining Puzzles. Cell Chemical Biology, 2016, 23, 214-224.	2.5	166
67	Targeted Histone Peptides: Insights into the Spatial Regulation of the Methyltransferase PRC2 by using a Surrogate of Heterotypic Chromatin. Angewandte Chemie - International Edition, 2015, 54, 6457-6461.	7.2	16
68	A Second-Generation Phosphohistidine Analog for Production of Phosphohistidine Antibodies. Organic Letters, 2015, 17, 187-189.	2.4	42
69	Increasing AIP Macrocycle Size Reveals Key Features of agr Activation in Staphylococcus aureus. ChemBioChem, 2015, 16, 1093-1100.	1.3	32
70	Application of the Protein Semisynthesis Strategy to the Generation of Modified Chromatin. Annual Review of Biochemistry, 2015, 84, 265-290.	5.0	60
71	Chemical tagging and customizing of cellular chromatin states using ultrafast trans-splicing inteins. Nature Chemistry, 2015, 7, 394-402.	6.6	133
72	Key driving forces in the biosynthesis of autoinducing peptides required for staphylococcal virulence. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10679-10684.	3.3	34

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73	DNA-guided establishment of nucleosome patterns within coding regions of a eukaryotic genome. Genome Research, 2015, 25, 1727-1738.	2.4	26
74	Identification of a functional hotspot on ubiquitin required for stimulation of methyltransferase activity on chromatin. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10365-10370.	3.3	44
75	Histones: At the Crossroads of Peptide and Protein Chemistry. Chemical Reviews, 2015, 115, 2296-2349.	23.0	188
76	Structural and dynamical features of inteins and implications on protein splicing.. Journal of Biological Chemistry, 2014, 289, 19278.	1.6	1
77	Inteins: nature's gift to protein chemists. Chemical Science, 2014, 5, 446-461.	3.7	310
78	A Phosphohistidine Proteomics Strategy Based on Elucidation of a Unique Gas-Phase Phosphopeptide Fragmentation Mechanism. Journal of the American Chemical Society, 2014, 136, 12899-12911.	6.6	64
79	Structural and Dynamical Features of Inteins and Implications on Protein Splicing. Journal of Biological Chemistry, 2014, 289, 14506-14511.	1.6	55
80	Strategy for â€œDetoxificationâ€•of a Cancer-Derived Histone Mutant Based on Mapping Its Interaction with the Methyltransferase PRC2. Journal of the American Chemical Society, 2014, 136, 13498-13501.	6.6	95
81	Accelerated chromatin biochemistry using DNA-barcoded nucleosome libraries. Nature Methods, 2014, 11, 834-840.	9.0	129
82	Activation and Inhibition of the Receptor Histidine Kinase AgrC Occurs through Opposite Helical Transduction Motions. Molecular Cell, 2014, 53, 929-940.	4.5	110
83	Structure of the branched intermediate in protein splicing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8422-8427.	3.3	26
84	EXPLORING CHROMATIN BIOLOGY USING PROTEIN CHEMISTRY. , 2014, , .		0
85	SET1 and p300 Act Synergistically, through Coupled Histone Modifications, in Transcriptional Activation by p53. Cell, 2013, 154, 297-310.	13.5	147
86	Inhibition of PRC2 Activity by a Gain-of-Function H3 Mutation Found in Pediatric Glioblastoma. Science, 2013, 340, 857-861.	6.0	1,074
87	H3R42me2a is a histone modification with positive transcriptional effects. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14894-14899.	3.3	115
88	The n-SET Domain of Set1 Regulates H2B Ubiquitylation-Dependent H3K4 Methylation. Molecular Cell, 2013, 49, 1121-1133.	4.5	119
89	Extein Residues Play an Intimate Role in the Rate-Limiting Step of Protein Trans-Splicing. Journal of the American Chemical Society, 2013, 135, 5839-5847.	6.6	63
90	ASH2L Regulates Ubiquitylation Signaling to MLL: trans-Regulation of H3 K4 Methylation in Higher Eukaryotes. Molecular Cell, 2013, 49, 1108-1120.	4.5	69

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91	Streamlined Expressed Protein Ligation Using Split Inteins. Journal of the American Chemical Society, 2013, 135, 286-292.	6.6	90
92	Induction of innate and adaptive immunity by delivery of poly dA:dT to dendritic cells. Nature Chemical Biology, 2013, 9, 250-256.	3.9	30
93	A pan-specific antibody for direct detection of protein histidine phosphorylation. Nature Chemical Biology, 2013, 9, 416-421.	3.9	119
94	Naturally Split Inteins Assemble through a â€œCapture and Collapseâ€•Mechanism. Journal of the American Chemical Society, 2013, 135, 18673-18681.	6.6	63
95	Histone H3K27 Trimethylation Inhibits H3 Binding and Function of SET1-Like H3K4 Methyltransferase Complexes. Molecular and Cellular Biology, 2013, 33, 4936-4946.	1.1	61
96	From EPOthilone to EPO: A challenge for natural product synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7134-7135.	3.3	3
97	Identification of ligand specificity determinants in AgrC, the Staphylococcus aureus quorum-sensing receptor.. Journal of Biological Chemistry, 2012, 287, 18588.	1.6	1
98	Histone Monoubiquitylation Position Determines Specificity and Direction of Enzymatic Cross-talk with Histone Methyltransferases Dot1L and PRC2. Journal of Biological Chemistry, 2012, 287, 23718-23725.	1.6	32
99	Stability of Nucleosomes Containing Homogenously Ubiquitylated H2A and H2B Prepared Using Semisynthesis. Journal of the American Chemical Society, 2012, 134, 19548-19551.	6.6	83
100	Chasing Phosphohistidine, an Elusive Sibling in the Phosphoamino Acid Family. ACS Chemical Biology, 2012, 7, 44-51.	1.6	107
101	Ultrafast Protein Splicing is Common among Cyanobacterial Split Inteins: Implications for Protein Engineering. Journal of the American Chemical Society, 2012, 134, 11338-11341.	6.6	122
102	Chromatin as an expansive canvas for chemical biology. Nature Chemical Biology, 2012, 8, 417-427.	3.9	109
103	Direct Interaction between an Allosteric Agonist Pepducin and the Chemokine Receptor CXCR4. Journal of the American Chemical Society, 2011, 133, 15878-15881.	6.6	64
104	Genetically Encoded 1,2-Aminothiols Facilitate Rapid and Site-Specific Protein Labeling via a Bio-orthogonal Cyanobenzothiazole Condensation. Journal of the American Chemical Society, 2011, 133, 11418-11421.	6.6	144
105	Recognition of a Mononucleosomal Histone Modification Pattern by BPTF via Multivalent Interactions. Cell, 2011, 145, 692-706.	13.5	300
106	Histone H2B ubiquitylation disrupts local and higher-order chromatin compaction. Nature Chemical Biology, 2011, 7, 113-119.	3.9	392
107	Tuning protein autoinhibition by domain destabilization. Nature Structural and Molecular Biology, 2011, 18, 550-555.	3.6	30
108	Split Inteins: Natureâ€™s Protein Ligases. Israel Journal of Chemistry, 2011, 51, 854-861.	1.0	31

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109	Kinetic Control of Oneâ€Pot Transâ€Splicing Reactions by Using a Wildâ€Type and Designed Split Intein. Angewandte Chemie - International Edition, 2011, 50, 6511-6515.	7.2	61
110	Spreading Chromatin into Chemical Biology. ChemBioChem, 2011, 12, 264-279.	1.3	67
111	A Semisynthetic Eph Receptor Tyrosine Kinase Provides Insight into Ligand- Induced Kinase Activation. Chemistry and Biology, 2011, 18, 361-371.	6.2	30
112	Histone H2A deubiquitinase activity of the Polycomb repressive complex PR-DUB. Nature, 2010, 465, 243-247.	13.7	674
113	Disulfide-directed histone ubiquitylation reveals plasticity in hDot1L activation. Nature Chemical Biology, 2010, 6, 267-269.	3.9	227
114	Branched intermediate formation stimulates peptide bond cleavage in protein splicing. Nature Chemical Biology, 2010, 6, 527-533.	3.9	62
115	Chemical Approaches for Studying Histone Modifications. Journal of Biological Chemistry, 2010, 285, 11045-11050.	1.6	85
116	Development of Stable Phosphohistidine Analogues. Journal of the American Chemical Society, 2010, 132, 14327-14329.	6.6	126
117	Biological Applications of Protein Splicing. Cell, 2010, 143, 191-200.	13.5	152
118	Method for the Synthesis of Mono-ADP-ribose Conjugated Peptides. Journal of the American Chemical Society, 2010, 132, 15878-15880.	6.6	52
119	Traceless protein splicing utilizing evolved split inteins. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10999-11004.	3.3	100
120	agr receptor mutants reveal distinct modes of inhibition by staphylococcal autoinducing peptides. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1216-1221.	3.3	129
121	Chapter 11 Semisynthesis of Ubiquitylated Proteins. Methods in Enzymology, 2009, 462, 225-243.	0.4	24
122	Preface. Methods in Enzymology, 2009, 462, xiii-xv.	0.4	1
123	A Semisynthetic Strategy to Generate Phosphorylated and Acetylated Histone H2B. ChemBioChem, 2009, 10, 2182-2187.	1.3	59
124	Symmetric signalling within asymmetric dimers of the Staphylococcus aureus receptor histidine kinase AgrC. Molecular Microbiology, 2009, 74, 44-57.	1.2	60
125	Direct Measurement of Cathepsin B Activity in the Cytosol of Apoptotic Cells by an Activity-Based Probe. Chemistry and Biology, 2009, 16, 1001-1012.	6.2	36
126	Chemical Biology in a Time of Transition. ACS Chemical Biology, 2009, 4, 241-243.	1.6	3

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127	Structureâ€“Activity Analysis of Semisynthetic Nucleosomes: Mechanistic Insights into the Stimulation of Dot1L by Ubiquitylated Histone H2B. ACS Chemical Biology, 2009, 4, 958-968.	1.6	109
128	RAD6-Mediated Transcription-Coupled H2B Ubiquitylation Directly Stimulates H3K4 Methylation in Human Cells. Cell, 2009, 137, 459-471.	13.5	453
129	PET Imaging of Leptin Biodistribution and Metabolism in Rodents and Primates. Cell Metabolism, 2009, 10, 148-159.	7.2	52
130	Expressed Protein Ligation (EPL) in the Study of Signal Transduction, Ion Conduction, And Chromatin Biology. Accounts of Chemical Research, 2009, 42, 107-116.	7.6	110
131	Anthrax Lethal Toxin Induced Lysosomal Membrane Permeabilization and Cytosolic Cathepsin Release Is Nlrp1b/Nalp1b-Dependent. PLoS ONE, 2009, 4, e7913.	1.1	53
132	An amalgamation of solid phase peptide synthesis and ribosomal peptide synthesis. Biopolymers, 2008, 90, 406-414.	1.2	14
133	Studying protein structure and function using semisynthesis. Biopolymers, 2008, 90, 743-750.	1.2	22
134	Activation of Protein Splicing by Proteaseâ€•or Lightâ€Triggered O to N Acyl Migration. Angewandte Chemie - International Edition, 2008, 47, 7764-7767.	7.2	69
135	A Full-Length Group 1 Bacterial Sigma Factor Adopts a Compact Structure Incompatible with DNA Binding. Chemistry and Biology, 2008, 15, 1091-1103.	6.2	51
136	Chemically ubiquitylated histone H2B stimulates hDot1L-mediated intranucleosomal methylation. Nature, 2008, 453, 812-816.	13.7	494
137	Activation of protein splicing with light in yeast. Nature Methods, 2008, 5, 303-305.	9.0	140
138	Toward the semisynthesis of multidomain transmembrane receptors: Modification of Eph tyrosine kinases. Protein Science, 2008, 17, 1740-1747.	3.1	13
139	Cyclic Peptide Inhibitors of Staphylococcal Virulence Prepared by Fmoc-Based Thiolactone Peptide Synthesis. Journal of the American Chemical Society, 2008, 130, 4914-4924.	6.6	127
140	Site-Specific 18F-Labeling of the Protein Hormone Leptin Using a General Two-Step Ligation Procedure. Journal of the American Chemical Society, 2008, 130, 9106-9112.	6.6	67
141	Identification of Ligand Specificity Determinants in AgrC, the Staphylococcus aureus Quorum-sensing Receptor. Journal of Biological Chemistry, 2008, 283, 8930-8938.	1.6	88
142	Systems- and Molecular-Level Elucidation of Signaling Processes Through Chemistry. Science Signaling, 2008, 1, pe45.	1.6	2
143	Small-molecule-mediated rescue of protein function by an inducible proteolytic shunt. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11209-11214.	3.3	88
144	Covalent Capture of Phospho-Dependent Protein Oligomerization by Site-Specific Incorporation of a Diazirine Photo-Cross-Linker. Journal of the American Chemical Society, 2007, 129, 8068-8069.	6.6	47

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145	Molecular Mechanisms ofagr Quorum Sensing in Virulent Staphylococci. ChemBioChem, 2007, 8, 847-855.	1.3	136
146	Tunable Photoactivation of a Postâ€translationally Modified Signaling Protein and its Unmodified Counterpart in Live Cells. ChemBioChem, 2007, 8, 2100-2105.	1.3	21
147	Auxiliary-Mediated Site-Specific Peptide Ubiquitylation. Angewandte Chemie - International Edition, 2007, 46, 2814-2818.	7.2	168
148	Post-translational enzyme activation in an animal via optimized conditional protein splicing. , 2007, 3, 50-54.		79
149	Ion Selectivity in a Semisynthetic K+ Channel Locked in the Conductive Conformation. Science, 2006, 314, 1004-1007.	6.0	124
150	Structural and Functional Consequences of an Amide-to-Ester Substitution in the Selectivity Filter of a Potassium Channel. Journal of the American Chemical Society, 2006, 128, 11591-11599.	6.6	53
151	Solution Structure and Folding Characteristics of the C-Terminal SH3 Domain of c-Crk-II,. Biochemistry, 2006, 45, 8874-8884.	1.2	40
152	Cutting out the middle man. Nature, 2006, 442, 517-518.	13.7	4
153	Protein ligation: an enabling technology for the biophysical analysis of proteins. Nature Methods, 2006, 3, 429-438.	9.0	351
154	Semisynthetic proteins in mechanistic studies: using chemistry to go where nature canâ€™t. Current Opinion in Chemical Biology, 2006, 10, 487-491.	2.8	51
155	Biopolymers. Current Opinion in Chemical Biology, 2005, 9, 545-547.	2.8	0
156	Manipulating proteins with chemistry: a cross-section of chemical biology. Trends in Biochemical Sciences, 2005, 30, 26-34.	3.7	85
157	A Ligation and Photorelease Strategy for the Temporal and Spatial Control of Protein Function in Living Cells. Angewandte Chemie - International Edition, 2005, 44, 5713-5717.	7.2	59
158	Development of a Tandem Protein Trans-Splicing System Based on Native and Engineered Split Inteins. Journal of the American Chemical Society, 2005, 127, 6198-6206.	6.6	118
159	2005 Irving Sigal Young Investigator Award. Protein Science, 2005, 14, 3140-3144.	3.1	0
160	Segmental Isotopic Labeling for Structural Biological Applications of NMR. , 2004, 278, 047-056.		23
161	Semisynthesis of a segmental isotopically labeled protein splicing precursor: NMR evidence for an unusual peptide bond at the N-extein-intein junction. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6397-6402.	3.3	158
162	Hydrophobic interactions drive ligand-receptor recognition for activation and inhibition of staphylococcal quorum sensing. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16168-16173.	3.3	82

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163	Glycine as a D-amino acid surrogate in the K+-selectivity filter. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17045-17049.	3.3	86
164	Semisynthesis of a Functional K+ Channel. Angewandte Chemie - International Edition, 2004, 43, 2504-2507.	7.2	53
165	Activation of an Autoregulated Protein Kinase by Conditional Protein Splicing. Angewandte Chemie - International Edition, 2004, 43, 5189-5192.	7.2	45
166	Photocontrol of Smad2, a Multiphosphorylated Cell-Signaling Protein, through Caging of Activating Phosphoserines. Angewandte Chemie - International Edition, 2004, 43, 5800-5803.	7.2	78
167	Simultaneous Triggering of Protein Activity and Fluorescence. Journal of the American Chemical Society, 2004, 126, 7170-7171.	6.6	83
168	Semisynthesis of Phosphovariants of Smad2 Reveals a Substrate Preference of the Activated TÎ²RI Kinase. Biochemistry, 2004, 43, 5698-5706.	1.2	38
169	Domain-Specific Incorporation of Noninvasive Optical Probes into Recombinant Proteins. Journal of the American Chemical Society, 2004, 126, 14004-14012.	6.6	29
170	Semisynthesis of Proteins by Expressed Protein Ligation. Annual Review of Biochemistry, 2003, 72, 249-289.	5.0	679
171	Toward Fully Synthetic N-Linked Glycoproteins. Angewandte Chemie - International Edition, 2003, 42, 431-434.	7.2	93
172	Chemical Signaling among Bacteria and Its Inhibition. Chemistry and Biology, 2003, 10, 1007-1021.	6.2	109
173	Turning virulence on and off inStaphylococci. Journal of Peptide Science, 2003, 9, 612-619.	0.8	10
174	A Modular Cross-Linking Approach for Exploring Protein Interactions. Journal of the American Chemical Society, 2003, 125, 2416-2425.	6.6	189
175	Conditional Protein Splicing:â€‰ A New Tool to Control Protein Structure and Function in Vitro and in Vivo. Journal of the American Chemical Society, 2003, 125, 10561-10569.	6.6	153
176	Protein Semi-Synthesis in Living Cells. Journal of the American Chemical Society, 2003, 125, 7180-7181.	6.6	162
177	Structure of Microcin J25, a Peptide Inhibitor of Bacterial RNA Polymerase, is a Lassoed Tail. Journal of the American Chemical Society, 2003, 125, 12475-12483.	6.6	227
178	â€œThe splice is rightâ€ how protein splicing is opening new doors in protein science. Chemical Communications, 2003, , 2087-2090.	2.2	11
179	Autoregulation of a bacterial Â factor explored by using segmental isotopic labeling and NMR. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8536-8541.	3.3	111
180	Efficient Semisynthesis of a Tetraphosphorylated Analogue of the Type I TGFÎ² Receptor. Organic Letters, 2002, 4, 165-168.	2.4	55

#	Article	IF	Citations
181	Semisynthesis and Folding of the Potassium Channel KcsA. Journal of the American Chemical Society, 2002, 124, 9113-9120.	6.6	165
182	Protein Splicing Triggered by a Small Molecule. Journal of the American Chemical Society, 2002, 124, 9044-9045.	6.6	156
183	Reversible and Specific Extracellular Antagonism of Receptor-Histidine Kinase Signaling. Journal of Biological Chemistry, 2002, 277, 6247-6253.	1.6	81
184	Key Determinants of Receptor Activation in theagrAutoinducing Peptides ofStaphylococcus aureusâ€. Biochemistry, 2002, 41, 10095-10104.	1.2	188
185	Recent advances in the application of expressed protein ligation to protein engineering. Current Opinion in Biotechnology, 2002, 13, 297-303.	3.3	91
186	Segmental Isotopic Labeling: Prospects for a New Tool to Study the Structure-function Relationships in Multi-domain Proteins. , 2002, , 35-51.		3
187	Studying receptor-ligand interactions using encoded amino acid scanning. , 2002, , 61-62.		0
188	Expressed protein ligation: A new tool for studying protein structure and function. , 2002, , 487-489.		0
189	Mapping the molecular interface between the Ïƒ70 subunit of E. coli RNA polymerase and T4 AsiA. Journal of Molecular Biology, 2001, 306, 631-642.	2.0	42
190	Rescuing a destabilized protein fold through backbone cyclization. Journal of Molecular Biology, 2001, 308, 1045-1062.	2.0	98
191	The TGFÎ² Receptor Activation Process. Molecular Cell, 2001, 8, 671-682.	4.5	346
192	Crystal Structure of a Phosphorylated Smad2. Molecular Cell, 2001, 8, 1277-1289.	4.5	271
193	Fluorescent monitoring of kinase activity in real time: development of a robust fluorescence-based assay for Abl tyrosine kinase activity. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 3091-3094.	1.0	28
194	Peptide chemical ligation inside living cells: in vivo generation of a circular protein domain. Bioorganic and Medicinal Chemistry, 2001, 9, 2479-2484.	1.4	58
195	Activation of the focal adhesion kinase signaling pathway by structural alterations in the carboxyl-terminal region of c-Crkâ€‰II. Oncogene, 2001, 20, 951-961.	2.6	33
196	Segmental Isotopic Labeling Using Expressed Protein Ligation. Methods in Enzymology, 2001, 339, 41-54.	0.4	50
197	Development and Application of Expressed Protein Ligation. Synlett, 2001, 2001, 0733-0740.	1.0	14
198	Fluorescent Biosensor for CrkII Phosphorylation by the Abl Tyrosine Kinase. , 2001, , 992-993.		0

#	Article	IF	Citations
199	Synthesis of Multi-Domain Proteins Using Expressed Protein Ligation: Strategies for Segmental Isotopic Labeling of Internal Regions. Tetrahedron, 2000, 56, 9461-9470.	1.0	32
200	Generation of a dual-labeled fluorescence biosensor for Crk-II phosphorylation using solid-phase expressed protein ligation. Chemistry and Biology, 2000, 7, 253-261.	6.2	90
201	3-Thiopropionic acid as a highly versatile multidetachable thioester resin linker. International Journal of Peptide Research and Therapeutics, 2000, 7, 17-21.	0.1	34
202	3-thiopropionic acid as a highly versatile multidetachable thioester resin linker. International Journal of Peptide Research and Therapeutics, 2000, 7, 17-21.	0.1	13
203	[29] Protein engineering by expressed protein ligation. Methods in Enzymology, 2000, 328, 478-496.	0.4	60
204	Exfoliatin-Producing Strains Define a Fourthagr Specificity Group in Staphylococcus aureus. Journal of Bacteriology, 2000, 182, 6517-6522.	1.0	284
205	Semisynthesis of Hyperphosphorylated Type I TGFÎ² Receptor:Â Addressing the Mechanism of Kinase Activation. Journal of the American Chemical Society, 2000, 122, 8337-8338.	6.6	54
206	Rational design of a global inhibitor of the virulence response in Staphylococcus aureus, based in part on localization of the site of inhibition to the receptor-histidine kinase, AgrC. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13330-13335.	3.3	232
207	Chemical ligation of folded recombinant proteins: Segmental isotopic labeling of domains for NMR studies. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 388-393.	3.3	219
208	Structure-activity analysis of synthetic autoinducing thiolactone peptides from Staphylococcus aureus responsible for virulence. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 1218-1223.	3.3	436
209	Peptide ligation and its application to protein engineering. Chemistry and Biology, 1999, 6, R247-R256.	6.2	78
210	Introduction of unnatural amino acids into proteins using expressed protein ligation. , 1999, 51, 343-354.		71
211	Virulence gene regulation by peptides in staphylococci and other Gram-positive bacteria. Current Opinion in Microbiology, 1999, 2, 40-45.	2.3	140
212	Native Chemical Ligation of Polypeptides. Current Protocols in Protein Science, 1999, 15, Unit18.4.	2.8	21
213	Insertion of a Synthetic Peptide into a Recombinant Protein Framework:Â A Protein Biosensor. Journal of the American Chemical Society, 1999, 121, 1100-1101.	6.6	109
214	Biosynthesis of a Head-to-Tail Cyclized Protein with Improved Biological Activity. Journal of the American Chemical Society, 1999, 121, 5597-5598.	6.6	140
215	Introduction of unnatural amino acids into proteins using expressed protein ligation. , 1999, 51, 343.		3
216	Adding â€˜spliceâ€™ to protein engineering. Structure, 1998, 6, 951-956.	1.6	14

#	Article	IF	Citations
217	Chemical Synthesis of a Circular Protein Domain: Evidence for Folding-Assisted Cyclization. Angewandte Chemie - International Edition, 1998, 37, 347-349.	7.2	112
218	Studying Receptorâ"Ligand Interactions Using Encoded Amino Acid Scanningâ€. Biochemistry, 1998, 37, 7487-7495.	1.2	12
219	Expressed Protein Ligation, a Novel Method for Studying Protein-Protein Interactions in Transcription. Journal of Biological Chemistry, 1998, 273, 16205-16209.	1.6	178
220	Expressed protein ligation: A general method for protein engineering. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6705-6710.	3.3	1,099
221	Chemical ligation of unprotected peptides directly from a solid support. Chemical Biology and Drug Design, 1998, 51, 303-316.	1.2	108
222	[13] Protein synthesis by chemical ligation of unprotected peptides in aqueous solution. Methods in Enzymology, 1997, 289, 266-298.	0.4	101
223	[24] Protein signature analysis: A practical new approach for studying structure-activity relationships in peptides and proteins. Methods in Enzymology, 1997, 289, 545-564.	0.4	2
224	Synthetic, structural and biological studies of the ubiquitin system: synthesis and crystal structure of an analogue containing unnatural amino acids. Biochemical Journal, 1997, 323, 727-734.	1.7	20
225	Methods for the Chemical Synthesis and Readout of Self-Encoded Arrays of Polypeptide Analogues. Journal of the American Chemical Society, 1997, 119, 7917-7927.	6.6	14
226	Chemoselective backbone cyclization of unprotected peptides. Chemical Communications, 1997, , 1369-1370.	2.2	94
227	Probing the chemical basis of binding activity in an SH3 domain by protein signature analysis. Chemistry and Biology, 1996, 3, 817-825.	6.2	15
228	A chemical approach to the construction of multimeric protein assemblies. Structure, 1995, 3, 649-652.	1.6	29
229	Chemical Ligation of Cysteine-Containing Peptides: Synthesis of a 22 kDa Tethered Dimer of HIV-1 Protease. Journal of the American Chemical Society, 1995, 117, 1881-1887.	6.6	95
230	Synthesis of proteins by native chemical ligation. Science, 1994, 266, 776-779.	6.0	3,712
231	Total Chemical Synthesis of a Folded .beta.-Sandwich Protein Domain: An Analog of the Tenth Fibronectin Type 3 Module. Journal of the American Chemical Society, 1994, 116, 10797-10798.	6.6	18
232	Design and Chemical Synthesis of a Neoprotein Structural Model for the Cytoplasmic Domain of a Multisubunit Cell-Surface Receptor: Integrin .alpha.IIb.beta.3 (Platelet GPIIb-IIIa). Biochemistry, 1994, 33, 7701-7708.	1.2	90
233	The chemical synthesis of proteins. Current Opinion in Biotechnology, 1993, 4, 420-427.	3.3	49