Bradley L Pentelute

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Perfluoroaryl-Cysteine S _N Ar Chemistry Approach to Unprotected Peptide Stapling. Journal of the American Chemical Society, 2013, 135, 5946-5949.	13.7	389
2	Organometallic palladium reagents for cysteine bioconjugation. Nature, 2015, 526, 687-691.	27.8	377
3	Personal neoantigen vaccines induce persistent memory T cell responses and epitope spreading in patients with melanoma. Nature Medicine, 2021, 27, 515-525.	30.7	248
4	ï€-Clamp-mediated cysteine conjugation. Nature Chemistry, 2016, 8, 120-128.	13.6	236
5	A fully automated flow-based approach for accelerated peptide synthesis. Nature Chemical Biology, 2017, 13, 464-466.	8.0	235
6	Blood-brain-barrier spheroids as an in vitro screening platform for brain-penetrating agents. Nature Communications, 2017, 8, 15623.	12.8	224
7	Atomic structure of anthrax protective antigen pore elucidates toxin translocation. Nature, 2015, 521, 545-549.	27.8	217
8	Synthesis of proteins by automated flow chemistry. Science, 2020, 368, 980-987.	12.6	191
9	Blood–brain-barrier organoids for investigating the permeability of CNS therapeutics. Nature Protocols, 2018, 13, 2827-2843.	12.0	185
10	Arylation Chemistry for Bioconjugation. Angewandte Chemie - International Edition, 2019, 58, 4810-4839.	13.8	169
11	Affinity-based capture and identification of protein effectors of the growth regulator ppGpp. Nature Chemical Biology, 2019, 15, 141-150.	8.0	159
12	Rapid Flowâ€Based Peptide Synthesis. ChemBioChem, 2014, 15, 713-720.	2.6	136
13	Palladiumâ€Mediated Arylation of Lysine in Unprotected Peptides. Angewandte Chemie - International Edition, 2017, 56, 3177-3181.	13.8	109
14	Nitrogen Arylation for Macrocyclization of Unprotected Peptides. Journal of the American Chemical Society, 2016, 138, 8340-8343.	13.7	104
15	Divergent unprotected peptide macrocyclisation by palladium-mediated cysteine arylation. Chemical Science, 2017, 8, 4257-4263.	7.4	98
16	Palladium Oxidative Addition Complexes for Peptide and Protein Cross-linking. Journal of the American Chemical Society, 2018, 140, 3128-3133.	13.7	93
17	Cholesterol-binding site of the influenza M2 protein in lipid bilayers from solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12946-12951.	7.1	85
18	Water-Soluble Palladium Reagents for Cysteine <i>S</i> -Arylation under Ambient Aqueous Conditions. Organic Letters, 2017, 19, 4263-4266.	4.6	76

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19	Delivery of Antibody Mimics into Mammalian Cells via Anthrax Toxin Protective Antigen. ChemBioChem, 2014, 15, 2458-2466.	2.6	75
20	A chemoselective strategy for late-stage functionalization of complex small molecules with polypeptides and proteins. Nature Chemistry, 2019, 11, 78-85.	13.6	75
21	Convergent diversity-oriented side-chain macrocyclization scan for unprotected polypeptides. Organic and Biomolecular Chemistry, 2014, 12, 566-573.	2.8	73
22	Ultra-large chemical libraries for the discovery of high-affinity peptide binders. Nature Communications, 2020, 11, 3183.	12.8	73
23	Protein Thioester Synthesis Enabled by Sortase. Journal of the American Chemical Society, 2012, 134, 10749-10752.	13.7	72
24	Systematic Investigation of EDC/sNHS-Mediated Bioconjugation Reactions for Carboxylated Peptide Substrates. Bioconjugate Chemistry, 2016, 27, 994-1004.	3.6	72
25	<i>De Novo</i> Discovery of High-Affinity Peptide Binders for the SARS-CoV-2 Spike Protein. ACS Central Science, 2021, 7, 156-163.	11.3	69
26	Site‧elective Cysteine–Cyclooctyne Conjugation. Angewandte Chemie - International Edition, 2018, 57, 6459-6463.	13.8	67
27	Risk of rapid evolutionary escape from biomedical interventions targeting SARS-CoV-2 spike protein. PLoS ONE, 2021, 16, e0250780.	2.5	66
28	An Umpolung Approach for the Chemoselective Arylation of Selenocysteine in Unprotected Peptides. Journal of the American Chemical Society, 2015, 137, 9784-9787.	13.7	65
29	Machine Learning To Predict Cell-Penetrating Peptides for Antisense Delivery. ACS Central Science, 2018, 4, 512-520.	11.3	65
30	Flowâ€Based Enzymatic Ligation by Sortaseâ€A. Angewandte Chemie - International Edition, 2014, 53, 9203-9208.	13.8	64
31	Perfluoroarene–Based Peptide Macrocycles to Enhance Penetration Across the Blood–Brain Barrier. Journal of the American Chemical Society, 2017, 139, 15628-15631.	13.7	60
32	Perfluoroaryl Bicyclic Cellâ€Penetrating Peptides for Delivery of Antisense Oligonucleotides. Angewandte Chemie - International Edition, 2018, 57, 4756-4759.	13.8	58
33	Enhancement of Peptide Vaccine Immunogenicity by Increasing Lymphatic Drainage and Boosting Serum Stability. Cancer Immunology Research, 2018, 6, 1025-1038.	3.4	58
34	In-solution enrichment identifies peptide inhibitors of protein–protein interactions. Nature Chemical Biology, 2019, 15, 410-418.	8.0	58
35	Enzymatic "Click―Ligation: Selective Cysteine Modification in Polypeptides Enabled by Promiscuous Glutathione Sâ€Transferase. Angewandte Chemie - International Edition, 2013, 52, 14001-14005.	13.8	57
36	Atomic structures of closed and open influenza B M2 proton channel reveal the conduction mechanism. Nature Structural and Molecular Biology, 2020, 27, 160-167.	8.2	52

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37	Protein–Protein Cross-Coupling via Palladium–Protein Oxidative Addition Complexes from Cysteine Residues. Journal of the American Chemical Society, 2020, 142, 9124-9129.	13.7	47
38	Enzyme-Catalyzed Macrocyclization of Long Unprotected Peptides. Organic Letters, 2014, 16, 3652-3655.	4.6	39
39	Arylierungschemie für die Biokonjugation. Angewandte Chemie, 2019, 131, 4860-4892.	2.0	39
40	Palladiumâ€Mediated Arylation of Lysine in Unprotected Peptides. Angewandte Chemie, 2017, 129, 3225-3229.	2.0	38
41	Rapid Total Synthesis of DARPin pE59 and Barnase. ChemBioChem, 2014, 15, 721-733.	2.6	36
42	Salt Effect Accelerates Site-Selective Cysteine Bioconjugation. ACS Central Science, 2016, 2, 637-646.	11.3	36
43	Xenoprotein engineering via synthetic libraries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5298-E5306.	7.1	36
44	Deep learning to design nuclear-targeting abiotic miniproteins. Nature Chemistry, 2021, 13, 992-1000.	13.6	36
45	A <scp>d</scp> -Amino Acid at the N-Terminus of a Protein Abrogates Its Degradation by the N-End Rule Pathway. ACS Central Science, 2015, 1, 423-430.	11.3	35
46	A perfluoroaromatic abiotic analog of H2 relaxin enabled by rapid flow-based peptide synthesis. Organic and Biomolecular Chemistry, 2016, 14, 3345-3349.	2.8	31
47	Library Design-Facilitated High-Throughput Sequencing of Synthetic Peptide Libraries. ACS Combinatorial Science, 2017, 19, 694-701.	3.8	31
48	Deep Learning for Prediction and Optimization of Fast-Flow Peptide Synthesis. ACS Central Science, 2020, 6, 2277-2286.	11.3	31
49	<scp>d</scp> -Amino Acid Scan of Two Small Proteins. Journal of the American Chemical Society, 2016, 138, 12099-12111.	13.7	30
50	Three dimensional structure of the anthrax toxin translocon–lethal factor complex by cryoâ€electron microscopy. Protein Science, 2013, 22, 586-594.	7.6	29
51	Structure of HIV TAR in complex with a Lab-Evolved RRM provides insight into duplex RNA recognition and synthesis of a constrained peptide that impairs transcription. Nucleic Acids Research, 2018, 46, 6401-6415.	14.5	27
52	Mutations in <i>pmrB</i> Confer Cross-Resistance between the LptD Inhibitor POL7080 and Colistin in <i>Pseudomonas aeruginosa</i> . Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	26
53	Monitoring the Kinetics of the pH-Driven Transition of the Anthrax Toxin Prepore to the Pore by Biolayer Interferometry and Surface Plasmon Resonance. Biochemistry, 2013, 52, 6335-6347.	2.5	25
54	Fully automated fast-flow synthesis of antisense phosphorodiamidate morpholino oligomers. Nature Communications, 2021, 12, 4396.	12.8	24

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55	Translocation of Non-Canonical Polypeptides into Cells Using Protective Antigen. Scientific Reports, 2015, 5, 11944.	3.3	23
56	Total synthesis and biochemical characterization of mirror image barnase. Chemical Science, 2015, 6, 2997-3002.	7.4	23
57	Substrate Recognition of MARTX Ras/Rap1-Specific Endopeptidase. Biochemistry, 2017, 56, 2747-2757.	2.5	22
58	Discovery of Nucleic Acid Binding Molecules from Combinatorial Biohybrid Nucleobase Peptide Libraries. Journal of the American Chemical Society, 2020, 142, 19642-19651.	13.7	22
59	Delivery of mirror image polypeptides into cells. Chemical Science, 2015, 6, 648-653.	7.4	21
60	Automated Flow Synthesis of Tumor Neoantigen Peptides for Personalized Immunotherapy. Scientific Reports, 2020, 10, 723.	3.3	21
61	C-Terminal Modification of Fully Unprotected Peptide Hydrazides via in Situ Generation of Isocyanates. Organic Letters, 2016, 18, 1222-1225.	4.6	20
62	Macrocyclization of Unprotected Peptide Isocyanates. Organic Letters, 2016, 18, 1226-1229.	4.6	20
63	A structural and mechanistic study of π-clamp-mediated cysteine perfluoroarylation. Scientific Reports, 2017, 7, 7954.	3.3	20
64	Designing Well-Structured Cyclic Pentapeptides Based on Sequence–Structure Relationships. Journal of Physical Chemistry B, 2018, 122, 3908-3919.	2.6	20
65	Antibody–Bactericidal Macrocyclic Peptide Conjugates To Target Gramâ€Negative Bacteria. ChemBioChem, 2018, 19, 2039-2044.	2.6	20
66	A novel, safe, fast and efficient treatment for Her2â€positive and negative bladder cancer utilizing an EGFâ€anthrax toxin chimera. International Journal of Cancer, 2020, 146, 449-460.	5.1	20
67	A Platinum(IV) Prodrug—Perfluoroaryl Macrocyclic Peptide Conjugate Enhances Platinum Uptake in the Brain. Journal of Medicinal Chemistry, 2020, 63, 6741-6747.	6.4	20
68	Anthrax toxins regulate pain signaling and can deliver molecular cargoes into ANTXR2+ DRG sensory neurons. Nature Neuroscience, 2022, 25, 168-179.	14.8	20
69	Amide-forming chemical ligation via <i>O</i> -acyl hydroxamic acids. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3752-3757.	7.1	19
70	Discovery of a 29-Amino-Acid Reactive Abiotic Peptide for Selective Cysteine Arylation. ACS Chemical Biology, 2018, 13, 527-532.	3.4	18
71	Oligonucleotide Bioconjugation with Bifunctional Palladium Reagents. Angewandte Chemie - International Edition, 2021, 60, 12109-12115.	13.8	18
72	Engineering Bioactive Dimeric Transcription Factor Analogs via Palladium Rebound Reagents. Journal of the American Chemical Society, 2021, 143, 11788-11798.	13.7	18

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73	Parallel Automated Flow Synthesis of Covalent Protein Complexes That Can Inhibit MYC-Driven Transcription. ACS Central Science, 2021, 7, 1408-1418.	11.3	17
74	Deep Learning Enables Discovery of a Short Nuclear Targeting Peptide for Efficient Delivery of Antisense Oligomers. Jacs Au, 2021, 1, 2009-2020.	7.9	17
75	Automated Flow Synthesis of Peptide–PNA Conjugates. ACS Central Science, 2022, 8, 205-213.	11.3	17
76	Site‧elective Cysteine–Cyclooctyne Conjugation. Angewandte Chemie, 2018, 130, 6569-6573.	2.0	16
77	Palladium–Protein Oxidative Addition Complexes by Amine-Selective Acylation. Journal of the American Chemical Society, 2020, 142, 21237-21242.	13.7	16
78	Total synthesis of himastatin. Science, 2022, 375, 894-899.	12.6	16
79	Mucosal absorption of therapeutic peptides by harnessing the endogenous sorting of glycosphingolipids. ELife, 2018, 7, .	6.0	15
80	Anthrax Protective Antigen Retargeted with Singleâ€Chain Variable Fragments Delivers Enzymes to Pancreatic Cancer Cells. ChemBioChem, 2020, 21, 2772-2776.	2.6	14
81	Perfluoroaryl Bicyclic Cellâ€Penetrating Peptides for Delivery of Antisense Oligonucleotides. Angewandte Chemie, 2018, 130, 4846-4849.	2.0	13
82	Chimeras of Cell-Penetrating Peptides Demonstrate Synergistic Improvement in Antisense Efficacy. Biochemistry, 2019, 58, 3980-3989.	2.5	12
83	Targeting Cancer Gene Dependencies with Anthrax-Mediated Delivery of Peptide Nucleic Acids. ACS Chemical Biology, 2020, 15, 1358-1369.	3.4	12
84	Targeting Glioblastoma Using a Novel Peptide Specific to a Deglycosylated Isoform of Brevican. Advanced Therapeutics, 2021, 4, 2000244.	3.2	11
85	Heterochiral Knottin Protein: Folding and Solution Structure. Biochemistry, 2017, 56, 5720-5725.	2.5	10
86	Automated affinity selection for rapid discovery of peptide binders. Chemical Science, 2021, 12, 10817-10824.	7.4	10
87	Palladium-Mediated Incorporation of Carboranes into Small Molecules, Peptides, and Proteins. Journal of the American Chemical Society, 2022, 144, 7852-7860.	13.7	10
88	Secondary Amino Alcohols: Traceless Cleavable Linkers for Use in Affinity Capture and Release. Angewandte Chemie - International Edition, 2020, 59, 11566-11572.	13.8	9
89	Selective Nâ€Arylation of <i>p</i> â€Aminophenylalanine in Unprotected Peptides with Organometallic Palladium Reagents. Angewandte Chemie - International Edition, 2021, 60, 16928-16931.	13.8	9
90	lgG-Engineered Protective Antigen for Cytosolic Delivery of Proteins into Cancer Cells. ACS Central Science, 2021, 7, 365-378.	11.3	8

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91	Studies on a landscape of perfluoroaromatic-reactive peptides. Organic and Biomolecular Chemistry, 2019, 17, 1862-1868.	2.8	7
92	Conformational Stabilization and Rapid Labeling of a 29-Residue Peptide by a Small Molecule Reaction Partner. Biochemistry, 2019, 58, 1343-1353.	2.5	7
93	Conformational Dynamics in Extended RGD-Containing Peptides. Biomacromolecules, 2020, 21, 2786-2794.	5.4	7
94	Rapid de novo discovery of peptidomimetic affinity reagents for human angiotensin converting enzyme 2. Communications Chemistry, 2022, 5, .	4.5	7
95	Quantifying residue-specific conformational dynamics of a highly reactive 29-mer peptide. Scientific Reports, 2020, 10, 2597.	3.3	6
96	An in vivo selection-derived <scp>d</scp> -peptide for engineering erythrocyte-binding antigens that promote immune tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
97	Characterization of Novel Piperidine-Based Inhibitor of Cathepsin B-Dependent Bacterial Toxins and Viruses. ACS Infectious Diseases, 2018, 4, 1235-1245.	3.8	5
98	Efficient Flow Synthesis of Human Antimicrobial Peptides. Australian Journal of Chemistry, 2020, 73, 380.	0.9	5
99	Identification of N-Terminally Diversified GLP-1R Agonists Using Saturation Mutagenesis and Chemical Design. ACS Chemical Biology, 2021, 16, 58-66.	3.4	5
100	A reactive peptide interface for site-selective cysteine bioconjugation. Chemical Communications, 2021, 57, 3227-3230.	4.1	5
101	Cell-Penetrating <scp>d</scp> -Peptides Retain Antisense Morpholino Oligomer Delivery Activity. ACS Bio & Med Chem Au, 2022, 2, 150-160.	3.7	5
102	Analyzing Dynamic Protein Complexes Assembled On and Released From Biolayer Interferometry Biosensor Using Mass Spectrometry and Electron Microscopy. Journal of Visualized Experiments, 2018, , .	0.3	4
103	Oligonucleotide Bioconjugation with Bifunctional Palladium Reagents. Angewandte Chemie, 2021, 133, 12216-12222.	2.0	4
104	Palladium Mediated Synthesis of Protein–Polyarene Conjugates. Journal of the American Chemical Society, 2022, 144, 11706-11712.	13.7	4
105	12 Pushing the Limits of Solid-Phase Peptide Synthesis with Continuous Flow. , 2018, , .		3
106	Selective Nâ€Arylation of p â€Aminophenylalanine in Unprotected Peptides with Organometallic Palladium Reagents. Angewandte Chemie, 2021, 133, 17065-17068.	2.0	3
107	Introduction: Peptide Chemistry. Chemical Reviews, 2020, 120, 3049-3050.	47.7	2
108	Editorial overview: Chemistry for biopolymers to investigate and even move beyond nature. Current Opinion in Chemical Biology, 2016, 34, v-vi.	6.1	1

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109	DDIS-36. BTP-7, A NOVEL PEPTIDE FOR THERAPEUTIC TARGETING OF MALIGNANT BRAIN TUMORS. Neuro-Oncology, 2019, 21, vi71-vi71.	1.2	1
110	Secondary Amino Alcohols: Traceless Cleavable Linkers for Use in Affinity Capture and Release. Angewandte Chemie, 2020, 132, 11663-11669.	2.0	0
111	DDRE-47. ASSESSMENT OF BRAIN PENETRANCE, BIODISTRIBUTION, AND EFFICACY OF PLATINUM (IV)-CONJUGATED FLUORINATED MACROCYCLIC CELL-PENETRATING PEPTIDES IN A MURINE GLIOBLASTOMA MODEL. Neuro-Oncology, 2021, 23, vi84-vi85.	1.2	0