

# Bradley L Pentelute

## List of Publications by Year in descending order

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111  
papers

5,962  
citations

94433

37  
h-index

85541

71  
g-index

131  
all docs

131  
docs citations

131  
times ranked

6440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Flow Synthesis of Peptide-PNA Conjugates. ACS Central Science, 2022, 8, 205-213.	11.3	17
2	Rapid de novo discovery of peptidomimetic affinity reagents for human angiotensin converting enzyme 2. Communications Chemistry, 2022, 5, .	4.5	7
3	Cell-Penetrating Peptides Retain Antisense Morpholino Oligomer Delivery Activity. ACS Bio & Med Chem Au, 2022, 2, 150-160.	3.7	5
4	Total synthesis of himastatin. Science, 2022, 375, 894-899.	12.6	16
5	Anthrax toxins regulate pain signaling and can deliver molecular cargoes into ANTXR2+ DRG sensory neurons. Nature Neuroscience, 2022, 25, 168-179.	14.8	20
6	Palladium-Mediated Incorporation of Carboranes into Small Molecules, Peptides, and Proteins. Journal of the American Chemical Society, 2022, 144, 7852-7860.	13.7	10
7	Palladium Mediated Synthesis of Protein-Polyarene Conjugates. Journal of the American Chemical Society, 2022, 144, 11706-11712.	13.7	4
8	Identification of N-Terminally Diversified GLP-1R Agonists Using Saturation Mutagenesis and Chemical Design. ACS Chemical Biology, 2021, 16, 58-66.	3.4	5
9	De Novo Discovery of High-Affinity Peptide Binders for the SARS-CoV-2 Spike Protein. ACS Central Science, 2021, 7, 156-163.	11.3	69
10	A reactive peptide interface for site-selective cysteine bioconjugation. Chemical Communications, 2021, 57, 3227-3230.	4.1	5
11	Targeting Glioblastoma Using a Novel Peptide Specific to a Deglycosylated Isoform of Brevican. Advanced Therapeutics, 2021, 4, 2000244.	3.2	11
12	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
13	IgG-Engineered Protective Antigen for Cytosolic Delivery of Proteins into Cancer Cells. ACS Central Science, 2021, 7, 365-378.	11.3	8
14	Risk of rapid evolutionary escape from biomedical interventions targeting SARS-CoV-2 spike protein. PLoS ONE, 2021, 16, e0250780.	2.5	66
15	Oligonucleotide Bioconjugation with Bifunctional Palladium Reagents. Angewandte Chemie - International Edition, 2021, 60, 12109-12115.	13.8	18
16	Oligonucleotide Bioconjugation with Bifunctional Palladium Reagents. Angewandte Chemie, 2021, 133, 12216-12222.	2.0	4
17	Selective N-Arylation of p-Aminophenylalanine in Unprotected Peptides with Organometallic Palladium Reagents. Angewandte Chemie, 2021, 133, 17065-17068.	2.0	3
18	Selective N-Arylation of p-Aminophenylalanine in Unprotected Peptides with Organometallic Palladium Reagents. Angewandte Chemie - International Edition, 2021, 60, 16928-16931.	13.8	9

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19	Fully automated fast-flow synthesis of antisense phosphorodiamidate morpholino oligomers. <i>Nature Communications</i> , 2021, 12, 4396.	12.8	24
20	Engineering Bioactive Dimeric Transcription Factor Analogs via Palladium Rebound Reagents. <i>Journal of the American Chemical Society</i> , 2021, 143, 11788-11798.	13.7	18
21	An in vivo selection-derived <scp>d</scp>-peptide for engineering erythrocyte-binding antigens that promote immune tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
22	Deep learning to design nuclear-targeting abiotic miniproteins. <i>Nature Chemistry</i> , 2021, 13, 992-1000.	13.6	36
23	Parallel Automated Flow Synthesis of Covalent Protein Complexes That Can Inhibit MYC-Driven Transcription. <i>ACS Central Science</i> , 2021, 7, 1408-1418.	11.3	17
24	Automated affinity selection for rapid discovery of peptide binders. <i>Chemical Science</i> , 2021, 12, 10817-10824.	7.4	10
25	Deep Learning Enables Discovery of a Short Nuclear Targeting Peptide for Efficient Delivery of Antisense Oligomers. <i>Jacs Au</i> , 2021, 1, 2009-2020.	7.9	17
26	DDRE-47. ASSESSMENT OF BRAIN PENETRANCE, BIODISTRIBUTION, AND EFFICACY OF PLATINUM (IV)-CONJUGATED FLUORINATED MACROCYCLIC CELL-PENETRATING PEPTIDES IN A MURINE GLIOBLASTOMA MODEL. <i>Neuro-Oncology</i> , 2021, 23, vi84-vi85.	1.2	0
27	A novel, safe, fast and efficient treatment for Her2â€positive and negative bladder cancer utilizing an EGFâ€anthrax toxin chimera. <i>International Journal of Cancer</i> , 2020, 146, 449-460.	5.1	20
28	Deep Learning for Prediction and Optimization of Fast-Flow Peptide Synthesis. <i>ACS Central Science</i> , 2020, 6, 2277-2286.	11.3	31
29	Palladiumâ€Protein Oxidative Addition Complexes by Amine-Selective Acylation. <i>Journal of the American Chemical Society</i> , 2020, 142, 21237-21242.	13.7	16
30	Discovery of Nucleic Acid Binding Molecules from Combinatorial Biohybrid Nucleobase Peptide Libraries. <i>Journal of the American Chemical Society</i> , 2020, 142, 19642-19651.	13.7	22
31	Proteinâ€Protein Cross-Coupling via Palladiumâ€Protein Oxidative Addition Complexes from Cysteine Residues. <i>Journal of the American Chemical Society</i> , 2020, 142, 9124-9129.	13.7	47
32	Anthrax Protective Antigen Retargeted with Singleâ€Chain Variable Fragments Delivers Enzymes to Pancreatic Cancer Cells. <i>ChemBioChem</i> , 2020, 21, 2772-2776.	2.6	14
33	A Platinum(IV) Prodrugâ€Perfluoroaryl Macrocyclic Peptide Conjugate Enhances Platinum Uptake in the Brain. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6741-6747.	6.4	20
34	Conformational Dynamics in Extended RGD-Containing Peptides. <i>Biomacromolecules</i> , 2020, 21, 2786-2794.	5.4	7
35	Synthesis of proteins by automated flow chemistry. <i>Science</i> , 2020, 368, 980-987.	12.6	191
36	Ultra-large chemical libraries for the discovery of high-affinity peptide binders. <i>Nature Communications</i> , 2020, 11, 3183.	12.8	73

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37	Introduction: Peptide Chemistry. Chemical Reviews, 2020, 120, 3049-3050.	47.7	2
38	Secondary Amino Alcohols: Traceless Cleavable Linkers for Use in Affinity Capture and Release. Angewandte Chemie - International Edition, 2020, 59, 11566-11572.	13.8	9
39	Secondary Amino Alcohols: Traceless Cleavable Linkers for Use in Affinity Capture and Release. Angewandte Chemie, 2020, 132, 11663-11669.	2.0	0
40	Quantifying residue-specific conformational dynamics of a highly reactive 29-mer peptide. Scientific Reports, 2020, 10, 2597.	3.3	6
41	Automated Flow Synthesis of Tumor Neoantigen Peptides for Personalized Immunotherapy. Scientific Reports, 2020, 10, 723.	3.3	21
42	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
43	Targeting Cancer Gene Dependencies with Anthrax-Mediated Delivery of Peptide Nucleic Acids. ACS Chemical Biology, 2020, 15, 1358-1369.	3.4	12
44	Efficient Flow Synthesis of Human Antimicrobial Peptides. Australian Journal of Chemistry, 2020, 73, 380.	0.9	5
45	Studies on a landscape of perfluoroaromatic-reactive peptides. Organic and Biomolecular Chemistry, 2019, 17, 1862-1868.	2.8	7
46	Chimeras of Cell-Penetrating Peptides Demonstrate Synergistic Improvement in Antisense Efficacy. Biochemistry, 2019, 58, 3980-3989.	2.5	12
47	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
48	In-solution enrichment identifies peptide inhibitors of protein-protein interactions. Nature Chemical Biology, 2019, 15, 410-418.	8.0	58
49	Conformational Stabilization and Rapid Labeling of a 29-Residue Peptide by a Small Molecule Reaction Partner. Biochemistry, 2019, 58, 1343-1353.	2.5	7
50	DDIS-36. BTP-7, A NOVEL PEPTIDE FOR THERAPEUTIC TARGETING OF MALIGNANT BRAIN TUMORS. Neuro-Oncology, 2019, 21, vi71-vi71.	1.2	1
51	Affinity-based capture and identification of protein effectors of the growth regulator ppGpp. Nature Chemical Biology, 2019, 15, 141-150.	8.0	159
52	Arylation Chemistry for Bioconjugation. Angewandte Chemie - International Edition, 2019, 58, 4810-4839.	13.8	169
53	Arylierungschemie für die Biokonjugation. Angewandte Chemie, 2019, 131, 4860-4892.	2.0	39
54	A chemoselective strategy for late-stage functionalization of complex small molecules with polypeptides and proteins. Nature Chemistry, 2019, 11, 78-85.	13.6	75

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55	Site-Selective Cysteine-Cyclooctyne Conjugation. <i>Angewandte Chemie</i> , 2018, 130, 6569-6573.	2.0	16
56	Machine Learning To Predict Cell-Penetrating Peptides for Antisense Delivery. <i>ACS Central Science</i> , 2018, 4, 512-520.	11.3	65
57	Palladium Oxidative Addition Complexes for Peptide and Protein Cross-linking. <i>Journal of the American Chemical Society</i> , 2018, 140, 3128-3133.	13.7	93
58	Discovery of a 29-Amino-Acid Reactive Abiotic Peptide for Selective Cysteine Arylation. <i>ACS Chemical Biology</i> , 2018, 13, 527-532.	3.4	18
59	Perfluoroaryl Bicyclic Cell-Penetrating Peptides for Delivery of Antisense Oligonucleotides. <i>Angewandte Chemie</i> , 2018, 130, 4846-4849.	2.0	13
60	Site-Selective Cysteine-Cyclooctyne Conjugation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6459-6463.	13.8	67
61	Designing Well-Structured Cyclic Pentapeptides Based on Sequence-Structure Relationships. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3908-3919.	2.6	20
62	Amide-forming chemical ligation via $\text{O}=\text{C}$ -acyl hydroxamic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3752-3757.	7.1	19
63	Perfluoroaryl Bicyclic Cell-Penetrating Peptides for Delivery of Antisense Oligonucleotides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4756-4759.	13.8	58
64	12 Pushing the Limits of Solid-Phase Peptide Synthesis with Continuous Flow. , 2018, , .		3
65	Analyzing Dynamic Protein Complexes Assembled On and Released From Biolayer Interferometry Biosensor Using Mass Spectrometry and Electron Microscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
66	Blood-brain-barrier organoids for investigating the permeability of CNS therapeutics. <i>Nature Protocols</i> , 2018, 13, 2827-2843.	12.0	185
67	Xenoprotein engineering via synthetic libraries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5298-E5306.	7.1	36
68	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. <i>Nucleic Acids Research</i> , 2018, 46, 6401-6415.	14.5	27
69	Mucosal absorption of therapeutic peptides by harnessing the endogenous sorting of glycosphingolipids. <i>ELife</i> , 2018, 7, .	6.0	15
70	Antibody-Bactericidal Macrocyclic Peptide Conjugates To Target Gram-Negative Bacteria. <i>ChemBioChem</i> , 2018, 19, 2039-2044.	2.6	20
71	Characterization of Novel Piperidine-Based Inhibitor of Cathepsin B-Dependent Bacterial Toxins and Viruses. <i>ACS Infectious Diseases</i> , 2018, 4, 1235-1245.	3.8	5
72	Enhancement of Peptide Vaccine Immunogenicity by Increasing Lymphatic Drainage and Boosting Serum Stability. <i>Cancer Immunology Research</i> , 2018, 6, 1025-1038.	3.4	58

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73	Palladium-Mediated Arylation of Lysine in Unprotected Peptides. <i>Angewandte Chemie</i> , 2017, 129, 3225-3229.	2.0	38
74	Palladium-Mediated Arylation of Lysine in Unprotected Peptides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3177-3181.	13.8	109
75	A fully automated flow-based approach for accelerated peptide synthesis. <i>Nature Chemical Biology</i> , 2017, 13, 464-466.	8.0	235
76	Substrate Recognition of MARTX Ras/Rap1-Specific Endopeptidase. <i>Biochemistry</i> , 2017, 56, 2747-2757.	2.5	22
77	Blood-brain-barrier spheroids as an in vitro screening platform for brain-penetrating agents. <i>Nature Communications</i> , 2017, 8, 15623.	12.8	224
78	Divergent unprotected peptide macrocyclisation by palladium-mediated cysteine arylation. <i>Chemical Science</i> , 2017, 8, 4257-4263.	7.4	98
79	Perfluoroarene-Based Peptide Macrocycles to Enhance Penetration Across the Blood-Brain Barrier. <i>Journal of the American Chemical Society</i> , 2017, 139, 15628-15631.	13.7	60
80	Heterochiral Knottin Protein: Folding and Solution Structure. <i>Biochemistry</i> , 2017, 56, 5720-5725.	2.5	10
81	A structural and mechanistic study of $\kappa$ -clamp-mediated cysteine perfluoroarylation. <i>Scientific Reports</i> , 2017, 7, 7954.	3.3	20
82	Library Design-Facilitated High-Throughput Sequencing of Synthetic Peptide Libraries. <i>ACS Combinatorial Science</i> , 2017, 19, 694-701.	3.8	31
83	Water-Soluble Palladium Reagents for Cysteine $\alpha$ -Arylation under Ambient Aqueous Conditions. <i>Organic Letters</i> , 2017, 19, 4263-4266.	4.6	76
84	Cholesterol-binding site of the influenza M2 protein in lipid bilayers from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12946-12951.	7.1	85
85	$\alpha$ -Amino Acid Scan of Two Small Proteins. <i>Journal of the American Chemical Society</i> , 2016, 138, 12099-12111.	13.7	30
86	Salt Effect Accelerates Site-Selective Cysteine Bioconjugation. <i>ACS Central Science</i> , 2016, 2, 637-646.	11.3	36
87	Editorial overview: Chemistry for biopolymers to investigate and even move beyond nature. <i>Current Opinion in Chemical Biology</i> , 2016, 34, v-vi.	6.1	1
88	Nitrogen Arylation for Macrocyclization of Unprotected Peptides. <i>Journal of the American Chemical Society</i> , 2016, 138, 8340-8343.	13.7	104
89	Systematic Investigation of EDC/sNHS-Mediated Bioconjugation Reactions for Carboxylated Peptide Substrates. <i>Bioconjugate Chemistry</i> , 2016, 27, 994-1004.	3.6	72
90	C-Terminal Modification of Fully Unprotected Peptide Hydrazides via in Situ Generation of Isocyanates. <i>Organic Letters</i> , 2016, 18, 1222-1225.	4.6	20

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91	Macrocyclization of Unprotected Peptide Isocyanates. <i>Organic Letters</i> , 2016, 18, 1226-1229.	4.6	20
92	A perfluoroaromatic abiotic analog of H2 relaxin enabled by rapid flow-based peptide synthesis. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3345-3349.	2.8	31
93	Î€-Clamp-mediated cysteine conjugation. <i>Nature Chemistry</i> , 2016, 8, 120-128.	13.6	236
94	A <sc>d</sc>-Amino Acid at the N-Terminus of a Protein Abrogates Its Degradation by the N-End Rule Pathway. <i>ACS Central Science</i> , 2015, 1, 423-430.	11.3	35
95	Translocation of Non-Canonical Polypeptides into Cells Using Protective Antigen. <i>Scientific Reports</i> , 2015, 5, 11944.	3.3	23
96	An Umpolung Approach for the Chemoselective Arylation of Selenocysteine in Unprotected Peptides. <i>Journal of the American Chemical Society</i> , 2015, 137, 9784-9787.	13.7	65
97	Total synthesis and biochemical characterization of mirror image barnase. <i>Chemical Science</i> , 2015, 6, 2997-3002.	7.4	23
98	Atomic structure of anthrax protective antigen pore elucidates toxin translocation. <i>Nature</i> , 2015, 521, 545-549.	27.8	217
99	Organometallic palladium reagents for cysteine bioconjugation. <i>Nature</i> , 2015, 526, 687-691.	27.8	377
100	Delivery of mirror image polypeptides into cells. <i>Chemical Science</i> , 2015, 6, 648-653.	7.4	21
101	Flowâ€Based Enzymatic Ligation by Sortaseâ€...A. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9203-9208.	13.8	64
102	Rapid Flowâ€Based Peptide Synthesis. <i>ChemBioChem</i> , 2014, 15, 713-720.	2.6	136
103	Rapid Total Synthesis of DARPin pE59 and Barnase. <i>ChemBioChem</i> , 2014, 15, 721-733.	2.6	36
104	Enzyme-Catalyzed Macrocyclization of Long Unprotected Peptides. <i>Organic Letters</i> , 2014, 16, 3652-3655.	4.6	39
105	Convergent diversity-oriented side-chain macrocyclization scan for unprotected polypeptides. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 566-573.	2.8	73
106	Delivery of Antibody Mimics into Mammalian Cells via Anthrax Toxin Protective Antigen. <i>ChemBioChem</i> , 2014, 15, 2458-2466.	2.6	75
107	A Perfluoroaryl-Cysteine S<sub>N</sub>Ar Chemistry Approach to Unprotected Peptide Stapling. <i>Journal of the American Chemical Society</i> , 2013, 135, 5946-5949.	13.7	389
108	Monitoring the Kinetics of the pH-Driven Transition of the Anthrax Toxin Prepore to the Pore by Biolayer Interferometry and Surface Plasmon Resonance. <i>Biochemistry</i> , 2013, 52, 6335-6347.	2.5	25

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109	Three dimensional structure of the anthrax toxin transloconâ€”lethal factor complex by cryoâ€”electron microscopy. Protein Science, 2013, 22, 586-594.	7.6	29
110	Enzymatic â€œClickâ€”Ligation: Selective Cysteine Modification in Polypeptides Enabled by Promiscuous Glutathione Sâ€”transferase. Angewandte Chemie - International Edition, 2013, 52, 14001-14005.	13.8	57
111	Protein Thioester Synthesis Enabled by Sortase. Journal of the American Chemical Society, 2012, 134, 10749-10752.	13.7	72