

Richard B Cooley

List of Publications by Year in descending order

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31
papers

1,056
citations

430442

18
h-index

476904

29
g-index

37
all docs

37
docs citations

37
times ranked

1601
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetically Encoded Tetrazine Amino Acid Directs Rapid Site-Specific <i>in Vivo</i> Bioorthogonal Ligation with <i>trans</i> -Cyclooctenes. <i>Journal of the American Chemical Society</i> , 2012, 134, 2898-2901.	6.6	229
2	Evolutionary Origin of a Secondary Structure: Î-Helices as Cryptic but Widespread Insertional Variations of Î±-Helices That Enhance Protein Functionality. <i>Journal of Molecular Biology</i> , 2010, 404, 232-246.	2.0	143
3	Cysteine Dioxygenase Structures from pH4 to 9: Consistent Cys-Persulfenate Formation at Intermediate pH and a Cys-Bound Enzyme at Higher pH. <i>Journal of Molecular Biology</i> , 2013, 425, 3121-3136.	2.0	59
4	Structural Basis of Improved Second-Generation 3-Nitro-tyrosine tRNA Synthetases. <i>Biochemistry</i> , 2014, 53, 1916-1924.	1.2	51
5	Mechanism of Two-Electron Oxidation of Deoxyguanosine 5'-Monophosphate by a Platinum(IV) Complex. <i>Journal of the American Chemical Society</i> , 2004, 126, 591-598.	6.6	45
6	Cyclic Di-GMP-Regulated Periplasmic Proteolysis of a <i>Pseudomonas aeruginosa</i> Type Vb Secretion System Substrate. <i>Journal of Bacteriology</i> , 2016, 198, 66-76.	1.0	44
7	Mechanistic insight into the conserved allosteric regulation of periplasmic proteolysis by the signaling molecule cyclic-di-GMP. <i>ELife</i> , 2014, 3, e03650.	2.8	41
8	Kinetic characterization of the soluble butane monooxygenase from <i>Thauera butanivorans</i> , formerly <i>Pseudomonas butanovorans</i> ™. <i>Microbiology (United Kingdom)</i> , 2009, 155, 2086-2096.	0.7	38
9	Cleaning Unexpected Fruits from Hard-Won Synthetases: Probing Principles of Permissivity in Non-canonical Amino Acid tRNA Synthetases. <i>ChemBioChem</i> , 2014, 15, 1810-1819.	1.3	35
10	Oxidation of Guanosine Derivatives by a Platinum(IV) Complex: An Internal Electron Transfer through Cyclization. <i>Journal of the American Chemical Society</i> , 2005, 127, 1773-1781.	6.6	33
11	A Highly Versatile Expression System for the Production of Multiply Phosphorylated Proteins. <i>ACS Chemical Biology</i> , 2019, 14, 1564-1572.	1.6	33
12	Structure-Based Insights into the Role of the Cys-Tyr Crosslink and Inhibitor Recognition by Mammalian Cysteine Dioxygenase. <i>Journal of Molecular Biology</i> , 2016, 428, 3999-4012.	2.0	29
13	A Conserved Regulatory Circuit Controls Large Adhesins in <i>Vibrio cholerae</i> . <i>MBio</i> , 2019, 10, .	1.8	29
14	Timing and Reset Mechanism of GTP Hydrolysis-Driven Conformational Changes of Atlastin. <i>Structure</i> , 2017, 25, 997-1010.e4.	1.6	27
15	Genetic Incorporation of Two Mutually Orthogonal Bioorthogonal Amino Acids That Enable Efficient Protein Dual-Labeling in Cells. <i>ACS Chemical Biology</i> , 2021, 16, 2612-2622.	1.6	27
16	Multivalent binding of the partially disordered SARS-CoV-2 nucleocapsid phosphoprotein dimer to RNA. <i>Biophysical Journal</i> , 2021, 120, 2890-2901.	0.2	26
17	Overcoming Near-Cognate Suppression in a Release Factor 1-Deficient Host with an Improved Nitro-Tyrosine tRNA Synthetase. <i>Journal of Molecular Biology</i> , 2020, 432, 4690-4704.	2.0	23
18	Coincidence detection and bi-directional transmembrane signaling control a bacterial second messenger receptor. <i>ELife</i> , 2016, 5, .	2.8	23

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19	Genetically Encoded Protein Tyrosine Nitration in Mammalian Cells. <i>ACS Chemical Biology</i> , 2019, 14, 1328-1336.	1.6	21
20	Symerythrin Structures at Atomic Resolution and the Origins of Rubrerythrins and the Ferritin-Like Superfamily. <i>Journal of Molecular Biology</i> , 2011, 413, 177-194.	2.0	16
21	A Diron Protein Autogenerates a Valine-Phenylalanine Cross-Link. <i>Science</i> , 2011, 332, 929-929.	6.0	16
22	A hereditary spastic paraplegia-associated atlastin variant exhibits defective allosteric coupling in the catalytic core. <i>Journal of Biological Chemistry</i> , 2018, 293, 687-700.	1.6	16
23	Concatenation of 14-3-3 with partner phosphoproteins as a tool to study their interaction. <i>Scientific Reports</i> , 2019, 9, 15007.	1.6	15
24	Efficient Site-Specific Prokaryotic and Eukaryotic Incorporation of Halotyrosine Amino Acids into Proteins. <i>ACS Chemical Biology</i> , 2020, 15, 562-574.	1.6	13
25	Growth of a non-methanotroph on natural gas: ignoring the obvious to focus on the obscure. <i>Environmental Microbiology Reports</i> , 2009, 1, 408-413.	1.0	7
26	Design, expression, purification and crystallization of human 14-3-3 η protein chimera with phosphopeptide from proapoptotic protein BAD. <i>Protein Expression and Purification</i> , 2020, 175, 105707.	0.6	6
27	Crystal structure of human 14-3-3 η complexed with the noncanonical phosphopeptide from proapoptotic BAD. <i>Biochemical and Biophysical Research Communications</i> , 2021, 583, 100-105.	1.0	3
28	Creating a Selective Nanobody Against 3-Nitrotyrosine Containing Proteins. <i>Frontiers in Chemistry</i> , 2022, 10, 835229.	1.8	3
29	Probing Protein-Protein Interactions with Genetically Encoded Photoactivatable Cross-Linkers. <i>Methods in Molecular Biology</i> , 2017, 1657, 331-345.	0.4	2
30	Structural Characterization of Rosetta Designed Amino Acyl-tRNA Synthetase Active Sites for Genetic Code Expansion. <i>FASEB Journal</i> , 2019, 33, 630.1.	0.2	0
31	Identification of an electrostatic toolkit for encoding fluorinated phenylalanine residues within proteins expressed in prokaryotic and mammalian cells. <i>Biophysical Journal</i> , 2022, 121, 178a.	0.2	0