

Brandon L Kier

List of Publications by Year in descending order

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19
papers

402
citations

759233

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times ranked

459
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational and Experimental Evaluation of Designed β^2 -Cap Hairpins Using Molecular Simulations and Kinetic Network Models. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1609-1620.	5.4	9
2	Biological consequences of improving the structural stability of hairpins that have antimicrobial activity. <i>Journal of Peptide Science</i> , 2017, 23, 899-906.	1.4	2
3	Optimization of a β^2 -sheet cap for long loop closure. <i>Biopolymers</i> , 2017, 107, e22995.	2.4	8
4	Aryl-aryl interactions in designed peptide folds: Spectroscopic characteristics and optimal placement for structure stabilization. <i>Biopolymers</i> , 2016, 105, 337-356.	2.4	17
5	Nascent Hairpins in Proteins: Identifying Turn Loci and Quantitating Turn Contributions to Hairpin Stability. <i>Biochemistry</i> , 2016, 55, 5537-5553.	2.5	17
6	Hairpin structure stability plays a role in the activity of two antimicrobial peptides. <i>FEBS Letters</i> , 2016, 590, 4480-4488.	2.8	13
7	Investigating the role of chain and linker length on the catalytic activity of an H_{2O_2} production catalyst containing a β^2 -hairpin peptide. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1730-1747.	2.2	15
8	A Structuring Repeat for Peptide Design: Long Beta Ribbons. <i>ChemBioChem</i> , 2016, 17, 224-227.	2.6	2
9	Temperature-Jump Fluorescence Provides Evidence for Fully Reversible Microsecond Dynamics in a Thermophilic Alcohol Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2015, 137, 10060-10063.	13.7	19
10	Disulfide-Mediated β^2 -Strand Dimers: Hyperstable β^2 -Sheets Lacking Tertiary Interactions and Turns. <i>Journal of the American Chemical Society</i> , 2015, 137, 5363-5371.	13.7	25
11	An improved capping unit for stabilizing the ends of associated β^2 -strands. <i>FEBS Letters</i> , 2014, 588, 4749-4753.	2.8	13
12	Captides: rigid junctions between beta sheets and small molecules. <i>Journal of Peptide Science</i> , 2014, 20, 704-715.	1.4	11
13	Enzyme Design from the Bottom Up: An Active Nickel Electrocatalyst with a Structured Peptide Outer Coordination Sphere. <i>Chemistry - A European Journal</i> , 2014, 20, 1510-1514.	3.3	34
14	Circular Permutation of a WW Domain: Folding Still Occurs after Excising the Turn of the Folding-Nucleating Hairpin. <i>Journal of the American Chemical Society</i> , 2014, 136, 741-749.	13.7	16
15	Circular permutation of the Trp-cage: fold rescue upon addition of a hydrophobic staple. <i>RSC Advances</i> , 2013, 3, 19824.	3.6	11
16	Cysteine-linked aromatic nitriles as UV resonance Raman probes of protein structure. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1244-1249.	2.5	11
17	Stabilizing capping motif for β^2 -hairpins and sheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10466-10471.	7.1	76
18	Very short peptides with stable folds: Building on the interrelationship of Trp/Trp, Trp/cation, and Trp/backbone amide interaction geometries. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 75, 308-322.	2.6	62

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19	Probing the Lower Size Limit for Protein-Like Fold Stability: Ten-Residue Microproteins With Specific, Rigid Structures in Water. <i>Journal of the American Chemical Society</i> , 2008, 130, 14675-14683.	13.7	41