Brandon L Kier

List of Publications by Year
in descending order

19	402	759233 12	794594 19
papers	citations	h-index	g-index

19	19	19	459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stabilizing capping motif for Â-hairpins and sheets. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10466-10471.	7.1	76
2	Very short peptides with stable folds: Building on the interrelationship of Trp/Trp, Trp/cation, and Trp/backboneâ€“amide interaction geometries. Proteins: Structure, Function and Bioinformatics, 2009, 75, 308-322.	2.6	62
3	Probing the Lower Size Limit for Protein-Like Fold Stability: Ten-Residue Microproteins With Specific, Rigid Structures in Water. Journal of the American Chemical Society, 2008, 130, 14675-14683.	13.7	41
4	Enzyme Design from the Bottom Up: An Active Nickel Electrocatalyst with a Structured Peptide Outer Coordination Sphere. Chemistry - A European Journal, 2014, 20, 1510-1514.	3.3	34
5	Disulfide-Mediated Î²-Strand Dimers: Hyperstable Î²-Sheets Lacking Tertiary Interactions and Turns. Journal of the American Chemical Society, 2015, 137, 5363-5371.	13.7	25
6	Temperature-Jump Fluorescence Provides Evidence for Fully Reversible Microsecond Dynamics in a Thermophilic Alcohol Dehydrogenase. Journal of the American Chemical Society, 2015, 137, 10060-10063.	13.7	19
7	Arylâ€“aryl interactions in designed peptide folds: Spectroscopic characteristics and optimal placement for structure stabilization. Biopolymers, 2016, 105, 337-356.	2.4	17
8	Nascent Hairpins in Proteins: Identifying Turn Loci and Quantitating Turn Contributions to Hairpin Stability. Biochemistry, 2016, 55, 5537-5553.	2.5	17
9	Circular Permutation of a WW Domain: Folding Still Occurs after Excising the Turn of the Folding-Nucleating Hairpin. Journal of the American Chemical Society, 2014, 136, 741-749.	13.7	16
10	Investigating the role of chain and linker length on the catalytic activity of an H₂ production catalyst containing a Î²-hairpin peptide. Journal of Coordination Chemistry, 2016, 69, 1730-1747.	2.2	15
11	An improved capping unit for stabilizing the ends of associated Î²â€strands. FEBS Letters, 2014, 588, 4749-4753.	2.8	13
12	Hairpin structure stability plays a role in the activity of two antimicrobial peptides. FEBS Letters, 2016, 590, 4480-4488.	2.8	13
13	Cysteineâ€linked aromatic nitriles as UV resonance Raman probes of protein structure. Journal of Raman Spectroscopy, 2012, 43, 1244-1249.	2.5	11
14	Circular permutation of the Trp-cage: fold rescue upon addition of a hydrophobic staple. RSC Advances, 2013, 3, 19824.	3.6	11
15	Captides: rigid junctions between beta sheets and small molecules. Journal of Peptide Science, 2014, 20, 704-715.	1.4	11
16	Computational and Experimental Evaluation of Designed Î²-Cap Hairpins Using Molecular Simulations and Kinetic Network Models. Journal of Chemical Information and Modeling, 2017, 57, 1609-1620.	5.4	9
17	Optimization of a Î²â€sheetâ€cap for long loop closure. Biopolymers, 2017, 107, e22995.	2.4	8
18	A Structuring Repeat for Peptide Design: Long Beta Ribbons. ChemBioChem, 2016, 17, 224-227.	2.6	2

#	Article	IF	Citations
19	Biological consequences of improving the structural stability of hairpins that have antimicrobial activity. Journal of Peptide Science, 2017, 23, 899-906.	1.4	2