

Siobhan E Toal

List of Publications by Year in descending order

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25
papers

536
citations

623188

14
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794141

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28
all docs

28
docs citations

28
times ranked

386
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-Independence of Trialanine and the Effects of Termini Blocking in Short Peptides: A Combined Vibrational, NMR, UVCD, and Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3689-3706.	1.2	64
2	Local Order in the Unfolded State: Conformational Biases and Nearest Neighbor Interactions. <i>Biomolecules</i> , 2014, 4, 725-773.	1.8	54
3	Amino Acids with Hydrogen-Bonding Side Chains have an Intrinsic Tendency to Sample Various Turn Conformations in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2011, 17, 6789-6797.	1.7	49
4	Assessing backbone solvation effects in the conformational propensities of amino acid residues in unfolded peptides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24917-24924.	1.3	41
5	Role of Enthalpy-Entropy Compensation Interactions in Determining the Conformational Propensities of Amino Acid Residues in Unfolded Peptides. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1309-1318.	1.2	36
6	Disorder and order in unfolded and disordered peptides and proteins: A view derived from tripeptide conformational analysis. II. Tripeptides with short side chains populating β -turn conformations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 968-983.	1.5	35
7	Disorder and order in unfolded and disordered peptides and proteins: A view derived from tripeptide conformational analysis. I. Tripeptides with long and predominantly hydrophobic side chains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 955-967.	1.5	33
8	Water-Centered Interpretation of Intrinsic pII Propensities of Amino Acid Residues: In Vitro-Driven Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13237-13251.	1.2	33
9	Conformational Changes of Trialanine Induced by Direct Interactions between Alanine Residues and Alcohols in Binary Mixtures of Water with Glycerol and Ethanol. <i>Journal of the American Chemical Society</i> , 2011, 133, 12728-12739.	6.6	29
10	Demixing of water and ethanol causes conformational redistribution and gelation of the cationic GAG tripeptide. <i>Chemical Communications</i> , 2015, 51, 16498-16501.	2.2	28
11	Randomizing the Unfolded State of Peptides (and Proteins) by Nearest Neighbor Interactions between Unlike Residues. <i>Chemistry - A European Journal</i> , 2015, 21, 5173-5192.	1.7	27
12	Tripartate: A Model System for Conformationally Flexible DDD Motifs in Proteins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5160-5171.	1.2	18
13	Construction and comparison of the statistical coil states of unfolded and intrinsically disordered proteins from nearest-neighbor corrected conformational propensities of short peptides. <i>Molecular BioSystems</i> , 2016, 12, 3294-3306.	2.9	17
14	Water-Mediated Electronic Structure of Oligopeptides Probed by Their UV Circular Dichroism, Absorption Spectra, and Time-Dependent DFT Calculations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2579-2590.	1.2	17
15	Ionized Trilycine: A Model System for Understanding the Nonrandom Structure of Poly-L-lysine and Lysine-Containing Motifs in Proteins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8084-8094.	1.2	14
16	Entropy reduction in unfolded peptides (and proteins) due to conformational preferences of amino acid residues. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22527-22536.	1.3	13
17	Anticooperative Nearest-Neighbor Interactions between Residues in Unfolded Peptides and Proteins. <i>Biophysical Journal</i> , 2018, 114, 1046-1057.	0.2	13
18	Investigating the Formation of a Repulsive Hydrogel of a Cationic 16mer Peptide at Low Ionic Strength in Water by Vibrational Spectroscopy and Rheology. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10079-10090.	1.2	9

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19	The TrpA protein of <i>Trichodesmium erythraeum</i> IMS101 is a non-fibril-forming collagen and a component of the outer sheath. <i>Microbiology (United Kingdom)</i> , 2014, 160, 2148-2156.	0.7	5
20	How do Nearest-Neighbor Interactions Effect the Conformational Distributions in Peptides?. <i>Biophysical Journal</i> , 2013, 104, 55a.	0.2	1
21	Investigating the Self-Aggregation of a Polyalanine Peptide: Kinetics and Isotope Edited Studies. <i>Biophysical Journal</i> , 2013, 104, 54a.	0.2	0
22	Conformational Effects on Alanine Induced Induced by Various Alcohol Cosolvents. <i>Biophysical Journal</i> , 2015, 108, 230a.	0.2	0
23	Conformational Entropies of Unfolded Peptides: The Source of a Realistic Estimation of the Entropy of Unfolded Peptides and Proteins. <i>Biophysical Journal</i> , 2015, 108, 194a.	0.2	0
24	Assessing N-Terminal Modifications on Alpha-Synuclein Structure and Function. <i>Biophysical Journal</i> , 2016, 110, 552a.	0.2	0
25	Anti-cooperative Nearest Neighbor Coupling Determines the Statistical Coil State of Peptides and Proteins at High Temperatures. <i>Biophysical Journal</i> , 2018, 114, 588a.	0.2	0