

Fei Xu

List of Publications by Year in descending order

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23
papers

1,562
citations

686830

13
h-index

642321

23
g-index

23
all docs

23
docs citations

23
times ranked

2493
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights of conformational dynamics on catalytic activity in the computational stability design of <i>Bacillus subtilis</i> LipA. <i>Archives of Biochemistry and Biophysics</i> , 2022, 722, 109196.	1.4	2
2	Recombinant collagen hydrogels induced by disulfide bonds. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1774-1785.	2.1	3
3	Design Strategies to Tune the Structural and Mechanical Properties of Synthetic Collagen Hydrogels. <i>Biomacromolecules</i> , 2021, 22, 3440-3450.	2.6	16
4	Composition-dependent energetic contribution of complex salt bridges to collagen stability. <i>Biophysical Journal</i> , 2021, 120, 3429-3436.	0.2	4
5	Using a collagen heterotrimer to screen for cation- π interactions to stabilize triple helices. <i>Chemical Physics Letters</i> , 2019, 715, 77-83.	1.2	6
6	Stabilizing effects of pairwise salt bridges between acidic and basic residues in a collagen heterotrimer. <i>Chemical Physics Letters</i> , 2018, 713, 253-258.	1.2	3
7	How electrostatic networks modulate specificity and stability of collagen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6207-6212.	3.3	31
8	Identifying and engineering a critical amino acid residue to enhance the catalytic efficiency of <i>Pseudomonas</i> sp. methyl parathion hydrolase. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6537-6545.	1.7	13
9	Parallels between DNA and collagen π comparing elastic models of the double and triple helix. <i>Scientific Reports</i> , 2017, 7, 12802.	1.6	4
10	Selective Catalytic β -Hydroxylation of <i>o</i> -Carboranyl Aldehydes by a Transient Directing Strategy. <i>Journal of the American Chemical Society</i> , 2017, 139, 14511-14517.	6.6	154
11	The promises and challenges of fusion constructs in protein biochemistry and enzymology. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8273-8281.	1.7	40
12	Guiding automated NMR structure determination using a global optimization metric, the NMR DP score. <i>Journal of Biomolecular NMR</i> , 2015, 62, 439-451.	1.6	16
13	Self-Assembly of Left- and Right-Handed Molecular Screws. <i>Journal of the American Chemical Society</i> , 2013, 135, 18762-18765.	6.6	55
14	Circular Permutation Directs Orthogonal Assembly in Complex Collagen Peptide Mixtures. <i>Journal of Biological Chemistry</i> , 2013, 288, 31616-31623.	1.6	11
15	Structural Basis for Allosteric Regulation of GPCRs by Sodium Ions. <i>Science</i> , 2012, 337, 232-236.	6.0	860
16	Compositional Control of Higher Order Assembly Using Synthetic Collagen Peptides. <i>Journal of the American Chemical Society</i> , 2012, 134, 47-50.	6.6	50
17	Computational Design of a Collagen A:B:C-Type Heterotrimer. <i>Journal of the American Chemical Society</i> , 2011, 133, 15260-15263.	6.6	52
18	Computational Design of Intermolecular Stability and Specificity in Protein Self-assembly. <i>Methods in Enzymology</i> , 2011, 487, 575-593.	0.4	8

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19	Long-range effects of histone point mutations on DNA remodeling revealed from computational analyses of SIN-mutant nucleosome structures. <i>Nucleic Acids Research</i> , 2010, 38, 6872-6882.	6.5	7
20	<i>De Novo</i> Self-Assembling Collagen Heterotrimers Using Explicit Positive and Negative Design. <i>Biochemistry</i> , 2010, 49, 2307-2316.	1.2	34
21	DNA Architecture, Deformability, and Nucleosome Positioning. <i>Journal of Biomolecular Structure and Dynamics</i> , 2010, 27, 725-739.	2.0	33
22	DNA Sequence-Directed Organization of Chromatin: Structure-Based Computational Analysis of Nucleosome-Binding Sequences. <i>Biophysical Journal</i> , 2009, 96, 2245-2260.	0.2	65
23	Brain-derived neurotrophic factor rapidly increases NMDA receptor channel activity through Fyn-mediated phosphorylation. <i>Brain Research</i> , 2006, 1121, 22-34.	1.1	95