Elham Hamed

List of Publications by Year
in descending order

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15	632	933447 10	996975 15
papers	citations	h-index	g-index

16	16	16	857
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomistic Modeling of Peptide Aggregation and Î²-Sheet Structuring in Corn Zein for Viscoelasticity. Biomacromolecules, 2021, 22, 1856-1866.	5.4	9
2	Modelling of bone fracture and strength at different length scales: a review. Interface Focus, 2016, 6, 20150055.	3.0	98
3	Mechanical Reinforcement of Proteins with Polymer Conjugation. ACS Nano, 2016, 10, 2259-2267.	14.6	21
4	Effect of Polymer Conjugation Site on Stability and Self-Assembly of Coiled Coils. BioNanoScience, 2015, 5, 140-149.	3.5	13
5	Multiple PEG Chains Attached onto the Surface of a Helix Bundle: Conformations and Implications. ACS Biomaterials Science and Engineering, 2015, 1, 79-84.	5.2	14
6	Experimentally-based multiscale model of the elastic moduli of bovine trabecular bone and its constituents. Materials Science and Engineering C, 2015, 54, 207-216.	7.3	12
7	Hierarchical Cascades of Instability Govern the Mechanics of Coiled Coils: Helix Unfolding Precedes Coil Unzipping. Biophysical Journal, 2014, 107, 477-484.	0.5	10
8	Correlation of Multi-scale Modeling and Experimental Results for the Elastic Modulus of Trabecular Bone. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 59-65.	0.5	0
9	Poly(ethylene glycol) Conjugation Stabilizes the Secondary Structure of Î±-Helices by Reducing Peptide Solvent Accessible Surface Area. Biomacromolecules, 2013, 14, 4053-4060.	5.4	65
10	Multiscale damage and strength of lamellar bone modeled by cohesive finite elements. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 94-110.	3.1	62
11	Multi-scale modelling of elastic moduli of trabecular bone. Journal of the Royal Society Interface, 2012, 9, 1654-1673.	3.4	64
12	Hierarchical Structure of Porosity in Cortical and Trabecular Bones. Materials Research Society Symposia Proceedings, 2012, 1420, 24.	0.1	1
13	Elastic modeling of bone at nanostructural level. Materials Science and Engineering Reports, 2012, 73, 27-49.	31.8	41
14	Recent advances on the measurement and calculation of the elastic moduli of cortical and trabecular bone: A review. Theoretical and Applied Mechanics, 2011, 38, 209-297.	0.3	57
15	Multiscale modeling of elastic properties of cortical bone. Acta Mechanica, 2010, 213, 131-154.	2.1	164