

Elham Hamed

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

632
citations

933447

10
h-index

996975

15
g-index

16
all docs

16
docs citations

16
times ranked

857
citing authors

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