

Davoud Ebrahimi

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

548
citations

759233

12
h-index

1125743

13
g-index

15
all docs

15
docs citations

15
times ranked

803
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Elastic Properties of Montmorillonite upon Water Adsorption. <i>Langmuir</i> , 2012, 28, 16855-16863.	3.5	104
2	Silk—Its Mysteries, How It Is Made, and How It Is Used. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 864-876.	5.2	85
3	Mesoscale properties of clay aggregates from potential of mean force representation of interactions between nanoplatelets. <i>Journal of Chemical Physics</i> , 2014, 140, .	3.0	73
4	Atomic-scale modelling of elastic and failure properties of clays. <i>Molecular Physics</i> , 2014, 112, 1294-1305.	1.7	61
5	Synergistic Integration of Experimental and Simulation Approaches for the <i>de Novo</i> Design of Silk-Based Materials. <i>Accounts of Chemical Research</i> , 2017, 50, 866-876.	15.6	45
6	Mesoscale simulation of clay aggregate formation and mechanical properties. <i>Granular Matter</i> , 2016, 18, 1.	2.2	33
7	Predicting Silk Fiber Mechanical Properties through Multiscale Simulation and Protein Design. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1542-1556.	5.2	32
8	Intracellular Pathways Involved in Bone Regeneration Triggered by Recombinant Silk—Silica Chimeras. <i>Advanced Functional Materials</i> , 2018, 28, 1702570.	14.9	31
9	Nanolayered attributes of calcium—silicate—hydrate gels. <i>Journal of the American Ceramic Society</i> , 2020, 103, 541-557.	3.8	24
10	Predicting rates of <i>in vivo</i> degradation of recombinant spider silk proteins. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e97-e105.	2.7	21
11	Effect of Polydispersity of Clay Platelets on the Aggregation and Mechanical Properties of Clay at the Mesoscale. <i>Clays and Clay Minerals</i> , 2016, 64, 425-437.	1.3	14
12	Integrated Modeling and Experimental Approaches to Control Silica Modification of Design Silk-Based Biomaterials. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2877-2888.	5.2	14
13	Effect of Terminal Modification on the Molecular Assembly and Mechanical Properties of Protein—Based Block Copolymers. <i>Macromolecular Bioscience</i> , 2017, 17, 1700095.	4.1	10
14	Silk-Based Hierarchical Materials for High Mechanical Performance at the Interface of Modeling, Synthesis, and Characterization. , 2018, , 1-28.		1
15	Silk-Based Hierarchical Materials for High Mechanical Performance at the Interface of Modeling, Synthesis, and Characterization. , 2020, , 1547-1574.		0