Myeongsang Lee

List of Publications by Year
in descending order

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31	411	758635 12	752256 20
papers	citations	h-index	g-index

32	32	32	421
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental Realization of Few Layer Two-Dimensional MoS₂ Membranes of Near Atomic Thickness for High Efficiency Water Desalination. Nano Letters, 2019, 19, 5194-5204.	4.5	80
2	Role of Sequence and Structural Polymorphism on the Mechanical Properties of Amyloid Fibrils. PLoS ONE, 2014, 9, e88502.	1.1	51
3	Metal ions affect the formation and stability of amyloid Î² aggregates at multiple length scales. Physical Chemistry Chemical Physics, 2018, 20, 8951-8961.	1.3	39
4	Mechanical behavior comparison of spider and silkworm silks using molecular dynamics at atomic scale. Physical Chemistry Chemical Physics, 2016, 18, 4814-4821.	1.3	26
5	The bond survival time variation of polymorphic amyloid fibrils in the mechanical insight. Chemical Physics Letters, 2014, 600, 68-72.	1.2	23
6	The mechanical response of hIAPP nanowires based on different bending direction simulations. Physical Chemistry Chemical Physics, 2014, 16, 18493.	1.3	19
7	Relationship between structural composition and material properties of polymorphic hIAPP fibrils. Biophysical Chemistry, 2015, 199, 1-8.	1.5	19
8	Influence of Aromatic Residues on the Material Characteristics of AÎ² Amyloid Protofibrils at the Atomic Scale. ChemPhysChem, 2015, 16, 2403-2414.	1.0	15
9	End Capping Alters the Structural Characteristics and Mechanical Properties of Transthyretin (105â€“115) Amyloid Protofibrils. ChemPhysChem, 2016, 17, 425-432.	1.0	14
10	Conformational changes of AÎ² (1â€“42) monomers in different solvents. Journal of Molecular Graphics and Modelling, 2016, 65, 8-14.	1.3	14
11	Morphology and mechanical properties of multi-stranded amyloid fibrils probed by atomistic and coarse-grained simulations. Physical Biology, 2015, 12, 066021.	0.8	13
12	The effect of structural heterogeneity on the conformation and stability of AÎ²â€“tau mixtures. RSC Advances, 2016, 6, 52236-52247.	1.7	13
13	Effects of lysine residues on structural characteristics and stability of tau proteins. Biochemical and Biophysical Research Communications, 2015, 466, 486-492.	1.0	12
14	Actin Filament Mechanics and Structure in Crowded Environments. Journal of Physical Chemistry B, 2019, 123, 2770-2779.	1.2	12
15	Sodium chloride's effect on selfâ€assembly of diphenylalanine bilayer. Journal of Computational Chemistry, 2016, 37, 1839-1846.	1.5	9
16	Mechanical features of various silkworm crystalline considering hydration effect via molecular dynamics simulations. Journal of Biomolecular Structure and Dynamics, 2018, 36, 1360-1368.	2.0	9
17	Mechanically inferior constituents in spider silk result in mechanically superior fibres by adaptation to harsh hydration conditions: a molecular dynamics study. Journal of the Royal Society Interface, 2018, 15, 20180305.	1.5	9
18	Characterizing Structural Stability of Amyloid Motif Fibrils Mediated by Water Molecules. ChemPhysChem, 2017, 18, 817-827.	1.0	7

#	Article	IF	Citations
19	Crowding tunes the organization and mechanics of actin bundles formed by crosslinking proteins. FEBS Letters, 2021, 595, 26-40.	1.3	6
20	Effects of End-Terminal Capping on Transthyretin (105â€“115) Amyloid Protofibrils Using Steered Molecular Dynamics. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	4
21	Molecular dynamics study of interactions between polymorphic actin filaments and gelsolin segmentâ€1. Proteins: Structure, Function and Bioinformatics, 2020, 88, 385-392.	1.5	4
22	Understanding structural characteristics of out-of-register hIAPP amyloid proteins via molecular dynamics. RSC Advances, 2016, 6, 77666-77672.	1.7	3
23	Capping effects on polymorphic AÎ² 16â€“21 amyloids depend on their size: A molecular dynamics simulation study. Biophysical Chemistry, 2018, 232, 1-11.	1.5	3
24	Investigation of the role hydrophobin monomer loops using hybrid models via molecular dynamics simulation. Colloids and Surfaces B: Biointerfaces, 2019, 173, 128-138.	2.5	3
25	Structural analysis of oligomeric and protofibrillar AÎ² amyloid pair structures considering F20L mutation effects using molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2017, 85, 580-592.	1.5	1
26	Loading-device effects on the protein-unfolding mechanisms using molecular-dynamic simulations. Journal of Molecular Graphics and Modelling, 2018, 81, 162-167.	1.3	1
27	Internal interaction changes within the mutation of SLC26A4 STAS domain. Chemical Physics Letters, 2018, 710, 226-233.	1.2	1
28	Impact of solvent on silk materials. , 2016, , .		0
29	Structural analysis of F20L oligomeric and protofibrillar amyloid pair structures using molecular dynamics simulations. , 2016, , .		0
30	Mechanical and vibrational characterization of amyloid-like HET-s nanosheets based on the skewed plate theory. Physical Chemistry Chemical Physics, 2017, 19, 11492-11501.	1.3	0
31	Structure-Property Relationship of Amyloidogenic Prion Nanofibrils. , 2017, , .		0