Myeongsang Lee

List of Publications by Year in Descending Order

28 papers	308 citations	11 h-index	17 g-index
32 ext. papers	367 ext. citations	3.7 avg, IF	3.53 L-index

#	Paper	IF	Citations
28	Crowding tunes the organization and mechanics of actin bundles formed by crosslinking proteins. *FEBS Letters*, **2021**, 595, 26-40	3.8	1
27	Molecular dynamics study of interactions between polymorphic actin filaments and gelsolin segment-1. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 385-392	4.2	3
26	Experimental Realization of Few Layer Two-Dimensional MoS Membranes of Near Atomic Thickness for High Efficiency Water Desalination. *Nano Letters*, **2019**, 19, 5194-5204	11.5	45
25	Actin Filament Mechanics and Structure in Crowded Environments. *Journal of Physical Chemistry B*, **2019**, 123, 2770-2779	3.4	5
24	Investigation of the role hydrophobin monomer loops using hybrid models via molecular dynamics simulation. *Colloids and Surfaces B: Biointerfaces*, **2019**, 173, 128-138	6	2
23	Metal ions affect the formation and stability of amyloid β aggregates at multiple length scales. *Physical Chemistry Chemical Physics*, **2018**, 20, 8951-8961	3.6	27
22	Loading-device effects on the protein-unfolding mechanisms using molecular-dynamic simulations. *Journal of Molecular Graphics and Modelling*, **2018**, 81, 162-167	2.8	
21	Mechanical features of various silkworm crystalline considering hydration effect via molecular dynamics simulations. *Journal of Biomolecular Structure and Dynamics*, **2018**, 36, 1360-1368	3.6	6
20	Capping effects on polymorphic Aβ amyloids depend on their size: A molecular dynamics simulation study. *Biophysical Chemistry*, **2018**, 232, 1-11	3.5	3
19	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,	4.1	5
18	Internal interaction changes within the mutation of SLC26A4 STAS domain. *Chemical Physics Letters* , **2018**, 710, 226-233	2.5	0
17	Characterizing Structural Stability of Amyloid Motif Fibrils Mediated by Water Molecules. *ChemPhysChem*, **2017**, 18, 817-827	3.2	6
16	Mechanical and vibrational characterization of amyloid-like HET-s nanosheets based on the skewed plate theory. *Physical Chemistry Chemical Physics*, **2017**, 19, 11492-11501	3.6	
15	Structural analysis of oligomeric and protofibrillar Aβ amyloid pair structures considering F20L mutation effects using molecular dynamics simulations. *Proteins: Structure, Function and Bioinformatics*, **2017**, 85, 580-592	4.2	1
14	End Capping Alters the Structural Characteristics and Mechanical Properties of Transthyretin (105-115) Amyloid Protofibrils. *ChemPhysChem*, **2016**, 17, 425-32	3.2	11
13	Mechanical behavior comparison of spider and silkworm silks using molecular dynamics at atomic scale. *Physical Chemistry Chemical Physics*, **2016**, 18, 4814-21	3.6	20
12	Conformational changes of Aβ(1-42) monomers in different solvents. *Journal of Molecular Graphics and Modelling*, **2016**, 65, 8-14	2.8	12

11	Effects of End-Terminal Capping on Transthyretin (105–115) Amyloid Protofibrils Using Steered Molecular Dynamics. *Journal of Nanomaterials*, **2016**, 2016, 1-10	3.2	4
10	Sodium chloride's effect on self-assembly of diphenylalanine bilayer. *Journal of Computational Chemistry*, **2016**, 37, 1839-46	3.5	7
9	Understanding structural characteristics of out-of-register hIAPP amyloid proteins via molecular dynamics. *RSC Advances*, **2016**, 6, 77666-77672	3.7	3
8	The effect of structural heterogeneity on the conformation and stability of Aβ–tau mixtures. *RSC Advances*, **2016**, 6, 52236-52247	3.7	11
7	Effects of lysine residues on structural characteristics and stability of tau proteins. *Biochemical and Biophysical Research Communications*, **2015**, 466, 486-92	3.4	12
6	Influence of Aromatic Residues on the Material Characteristics of Aβ Amyloid Protofibrils at the Atomic Scale. *ChemPhysChem*, **2015**, 16, 2403-14	3.2	15
5	Morphology and mechanical properties of multi-stranded amyloid fibrils probed by atomistic and coarse-grained simulations. *Physical Biology*, **2015**, 12, 066021	3	12
4	Relationship between structural composition and material properties of polymorphic hIAPP fibrils. *Biophysical Chemistry*, **2015**, 199, 1-8	3.5	16
3	The mechanical response of hIAPP nanowires based on different bending direction simulations. *Physical Chemistry Chemical Physics*, **2014**, 16, 18493-500	3.6	17
2	The bond survival time variation of polymorphic amyloid fibrils in the mechanical insight. *Chemical Physics Letters*, **2014**, 600, 68-72	2.5	21
1	Role of sequence and structural polymorphism on the mechanical properties of amyloid fibrils. *PLoS ONE*, **2014**, 9, e88502	3.7	43