

Inchul Baek

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

137
citations

1163117

8
h-index

1199594

12
g-index

14
all docs

14
docs citations

14
times ranked

103
citing authors

#	ARTICLE	IF	CITATIONS
1	The bond survival time variation of polymorphic amyloid fibrils in the mechanical insight. <i>Chemical Physics Letters</i> , 2014, 600, 68-72.	2.6	23
2	Highly sensitive and selective detection of single-nucleotide polymorphisms using gold nanoparticle MutS enzymes and a micro cantilever resonator. <i>Talanta</i> , 2019, 205, 120154.	5.5	16
3	Influence of Aromatic Residues on the Material Characteristics of A β Amyloid Protofibrils at the Atomic Scale. <i>ChemPhysChem</i> , 2015, 16, 2403-2414.	2.1	15
4	Morphology and mechanical properties of multi-stranded amyloid fibrils probed by atomistic and coarse-grained simulations. <i>Physical Biology</i> , 2015, 12, 066021.	1.8	13
5	Spider silk with weaker bonding resulting in higher strength and toughness through progressive unfolding and load transfer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 108, 103773.	3.1	13
6	Synergistic enhanced rolling circle amplification based on mutS and radical polymerization for single-point mutation DNA detection. <i>Biosensors and Bioelectronics</i> , 2022, 210, 114295.	10.1	13
7	Steered molecular dynamics analysis of the role of cofilin in increasing the flexibility of actin filaments. <i>Biophysical Chemistry</i> , 2016, 218, 27-35.	2.8	10
8	Effects of the Hydrophobicity of Key Residues on the Characteristics and Stability of Glucose Oxidase on a Graphene Surface. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1899-1908.	5.2	10
9	Mechanical features of various silkworm crystalline considering hydration effect via molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 1360-1368.	3.5	9
10	Mechanically inferior constituents in spider silk result in mechanically superior fibres by adaptation to harsh hydration conditions: a molecular dynamics study. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180305.	3.4	9
11	Understanding structural characteristics of out-of-register hIAPP amyloid proteins via molecular dynamics. <i>RSC Advances</i> , 2016, 6, 77666-77672.	3.6	3
12	Biophysical characterization of cofilin-induced extension-torsion coupling in actin filaments. <i>Journal of Biomechanics</i> , 2016, 49, 1831-1835.	2.1	2
13	Structural analysis of oligomeric and protofibrillar A β amyloid pair structures considering F20L mutation effects using molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 580-592.	2.6	1
14	Impact of solvent on silk materials. , 2016, , .		0