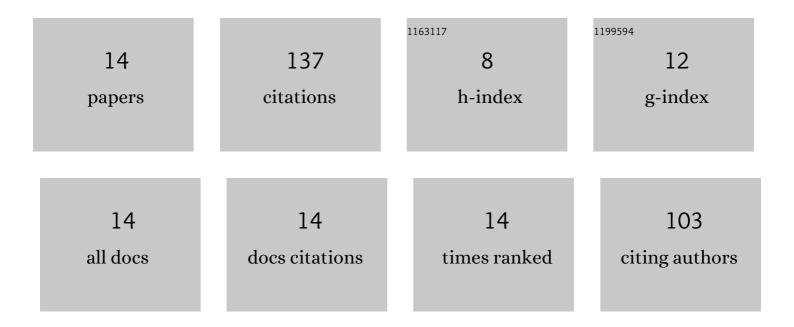
Inchul Baek

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The bond survival time variation of polymorphic amyloid fibrils in the mechanical insight. Chemical Physics Letters, 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. Talanta, 2019, 205, 120154.	5.5	16
3	Influence of Aromatic Residues on the Material Characteristics of Aβ Amyloid Protofibrils at the Atomic Scale. ChemPhysChem, 2015, 16, 2403-2414.	2.1	15
4	Morphology and mechanical properties of multi-stranded amyloid fibrils probed by atomistic and coarse-grained simulations. Physical Biology, 2015, 12, 066021.	1.8	13
5	Spider silk with weaker bonding resulting in higher strength and toughness through progressive unfolding and load transfer. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 108, 103773.	3.1	13
6	Synergistic enhanced rolling circle amplification based on mutS and radical polymerization for single-point mutation DNA detection. Biosensors and Bioelectronics, 2022, 210, 114295.	10.1	13
7	Steered molecular dynamics analysis of the role of cofilin in increasing the flexibility of actin filaments. Biophysical Chemistry, 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. ACS Biomaterials Science and Engineering, 2020, 6, 1899-1908.	5.2	10
9	Mechanical features of various silkworm crystalline considering hydration effect via molecular dynamics simulations. Journal of Biomolecular Structure and Dynamics, 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. Journal of the Royal Society Interface, 2018, 15, 20180305.	3.4	9
11	Understanding structural characteristics of out-of-register hIAPP amyloid proteins via molecular dynamics. RSC Advances, 2016, 6, 77666-77672.	3.6	3
12	Biophysical characterization of cofilin-induced extension–torsion coupling in actin filaments. Journal of Biomechanics, 2016, 49, 1831-1835.	2.1	2
13	Structural analysis of oligomeric and protofibrillar AÎ ² amyloid pair structures considering F20L mutation effects using molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2017, 85, 580-592.	2.6	1

14 Impact of solvent on silk materials. , 2016, , .

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