Giovanni Bellesia

List of Publications by Year
in descending order

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24 papers	1,152 citations	516561 16 h-index	610775 24 g-index
24 all docs	24 docs citations	24 times ranked	1670 citing authors

#	Article	IF	Citations
1	Population dynamics, information transfer, and spatial organization in a chemical reaction network under spatial confinement and crowding conditions. Physical Review E, 2016, 94, 042306.	0.8	3
2	Stochastic Simulation Service: Bridging the Gap between the Computational Expert and the Biologist. PLoS Computational Biology, 2016, 12, e1005220.	1.5	54
3	MARTINI Coarse-Grained Model for Crystalline Cellulose Microfibers. Journal of Physical Chemistry B, 2015, 119, 465-473.	1.2	54
4	Sodium chloride interaction with solvated and crystalline cellulose: sodium ion affects the cellotetraose molecule and the cellulose fibril in aqueous solution. Cellulose, 2013, 20, 2695-2702.	2.4	14
5	Î²-sheet propensity controls the kinetic pathways and morphologies of seeded peptide aggregation. Journal of Chemical Physics, 2012, 137, 145104.	1.2	27
6	Coarse-Grained Model for the Interconversion between Native and Liquid Ammonia-Treated Crystalline Cellulose. Journal of Physical Chemistry B, 2012, 116, 8031-8037.	1.2	27
7	Assisted Peptide Folding by Surface Pattern Recognition. Biophysical Journal, 2011, 100, 1306-1315.	0.2	18
8	Restructuring the Crystalline Cellulose Hydrogen Bond Network Enhances Its Depolymerization Rate. Journal of the American Chemical Society, 2011, 133, 11163-11174.	6.6	321
9	Probing the Early Events Associated with Liquid Ammonia Pretreatment of Native Crystalline Cellulose. Journal of Physical Chemistry B, 2011, 115, 9782-9788.	1.2	33
10	Effects of surface interactions on peptide aggregate morphology. Journal of Chemical Physics, 2011, 135, 085102.	1.2	26
11	Neutron crystallographic and molecular dynamics studies of the structure of ammonia-cellulose I: rearrangement of hydrogen bonding during the treatment of cellulose with ammonia. Cellulose, 2011, 18, 191-206.	2.4	39
12	Relative stability of de novo fourâ€“helix bundle proteins: Insights from coarse grained molecular simulations. Protein Science, 2011, 20, 818-826.	3.1	14
13	In silicostudies of crystalline cellulose and its degradation by enzymes. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1184-1188.	2.5	25
14	Sequence periodicity and secondary structure propensity in model proteins. Protein Science, 2010, 19, 141-154.	3.1	32
15	What Determines the Structure and Stability of KFFE Monomers, Dimers, and Protofibrils?. Biophysical Journal, 2009, 96, 875-886.	0.2	57
16	Effect of Î²-sheet propensity on peptide aggregation. Journal of Chemical Physics, 2009, 130, 145103.	1.2	123
17	Diversity of kinetic pathways in amyloid fibril formation. Journal of Chemical Physics, 2009, 131, 111102.	1.2	87
18	Computational Methods in Nanostructure Design. Methods in Molecular Biology, 2008, 474, 133-151.	0.4	3

#	Article	IF	Citations
19	Structural transitions in model Î²-sheet tapes. Journal of Chemical Physics, 2008, 128, 195105.	1.2	12
20	Structure and stability of amyloid fibrils formed from synthetic beta-peptides. Frontiers in Bioscience - Landmark, 2008, Volume, 6957.	3.0	5
21	Self-assembly of Î²-sheet forming peptides into chiral fibrillar aggregates. Journal of Chemical Physics, 2007, 126, 245104.	1.2	95
22	Molecular dynamics study of structural properties of -sheet assemblies formed by synthetic de novo oligopeptides. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 455-476.	1.2	12
23	Structure and stability of chiral Î²-tapes: A computational coarse-grained approach. Journal of Chemical Physics, 2005, 122, 134901.	1.2	13
24	â€œIntrinsicâ€•and â€œTopologicalâ€•Stiffness in Branched Polymers. Macromolecules, 2005, 38, 5288-5299.	2.2	58