Martin Muschol

List of Publications by Year
in descending order

35 papers	2,263 citations	394286 19 h-index	454834 30 g-index
35 all docs	35 docs citations	35 times ranked	2813 citing authors

#	Article	IF	Citations
1	Liquidâ€“liquid phase separation in supersaturated lysozyme solutions and associated precipitate formation/crystallization. Journal of Chemical Physics, 1997, 107, 1953-1962.	1.2	518
2	Interactions in undersaturated and supersaturated lysozyme solutions: Static and dynamic light scattering results. Journal of Chemical Physics, 1995, 103, 10424-10432.	1.2	349
3	Accelerated neurodegeneration through chaperone-mediated oligomerization of tau. Journal of Clinical Investigation, 2013, 123, 4158-4169.	3.9	246
4	Hydration and Hydrodynamic Interactions of Lysozyme: Effects of Chaotropic versus Kosmotropic Ions. Biophysical Journal, 2009, 97, 590-598.	0.2	141
5	Amyloid Protofibrils of Lysozyme Nucleate and Grow Via Oligomer Fusion. Biophysical Journal, 2009, 96, 3781-3790.	0.2	126
6	Phosphorylation Dynamics Regulate Hsp27-Mediated Rescue of Neuronal Plasticity Deficits in Tau Transgenic Mice. Journal of Neuroscience, 2010, 30, 15374-15382.	1.7	105
7	Origin of metastable oligomers and their effects on amyloid fibril self-assembly. Chemical Science, 2018, 9, 5937-5948.	3.7	76
8	Stable, Metastable, and Kinetically Trapped Amyloid Aggregate Phases. Biomacromolecules, 2015, 16, 326-335.	2.6	75
9	Spatial Extent of Charge Repulsion Regulates Assembly Pathways for Lysozyme Amyloid Fibrils. PLoS ONE, 2011, 6, e18171.	1.1	73
10	Characterizing Gold Nanorods in Solution Using Depolarized Dynamic Light Scattering. Journal of Physical Chemistry C, 2012, 116, 8128-8137.	1.5	67
11	Carbonyl-based blue autofluorescence of proteins and amino acids. PLoS ONE, 2017, 12, e0176983.	1.1	62
12	Pre-assembled clusters distort crystal nucleation kinetics in supersaturated lysozyme solutions. Biophysical Chemistry, 2007, 129, 224-234.	1.5	57
13	Lack of evidence for prenucleation aggregate formation in lysozyme crystal growth solutions. Journal of Crystal Growth, 1996, 167, 738-747.	0.7	52
14	Dependence of Transient and Residual Calcium Dynamics on Action-Potential Patterning during Neuropeptide Secretion. Journal of Neuroscience, 2000, 20, 6773-6780.	1.7	47
15	Understanding the structural ensembles of a highly extended disordered protein. Molecular BioSystems, 2012, 8, 308-319.	2.9	37
16	Activity-Dependent Depression of Excitability and Calcium Transients in the Neurohypophysis Suggests a Model of â€œStuttering Conductionâ€• Journal of Neuroscience, 2003, 23, 11352-11362.	1.7	34
17	Monoubiquitination Inhibits the Actin Bundling Activity of Fascin. Journal of Biological Chemistry, 2016, 291, 27323-27333.	1.6	34
18	Amyloid Oligomers and Protofibrils, but Not Filaments, Self-Replicate from Native Lysozyme. Journal of the American Chemical Society, 2014, 136, 8947-8956.	6.6	31

#	Article	IF	Citations
19	Structural fingerprints and their evolution during oligomeric vs. oligomer-free amyloid fibril growth. Journal of Chemical Physics, 2013, 139, 121901.	1.2	24
20	Protofibrilâ€“Fibril Interactions Inhibit Amyloid Fibril Assembly by Obstructing Secondary Nucleation. Angewandte Chemie - International Edition, 2021, 60, 3016-3021.	7.2	21
21	Mechanism of Fibril and Soluble Oligomer Formation in Amyloid Beta and Hen Egg White Lysozyme Proteins. Journal of Physical Chemistry B, 2019, 123, 5678-5689.	1.2	20
22	Lysozyme as diffusion tracer for measuring aqueous solution viscosity. Journal of Colloid and Interface Science, 2009, 339, 243-248.	5.0	13
23	In Situ Observation of Antibiotic Mediated Concurrent Growth of Two Distinct Homogeneous Populations of Gold Nanoparticles in Solution Phase. Journal of Physical Chemistry C, 2009, 113, 3478-3486.	1.5	12
24	Kinetic Transition in Amyloid Assembly as a Screening Assay for Oligomer-Selective Dyes. Biomolecules, 2019, 9, 539.	1.8	12
25	Does Thioflavin-T Detect Oligomers Formed During Amyloid Fibril Assembly. Biophysical Journal, 2011, 100, 538a.	0.2	7
26	Collapsed state of polyglutamic acid results in amyloid spherulite formation. Intrinsically Disordered Proteins, 2015, 3, e1056905.	1.9	6
27	An in-membrane NMR spectroscopic approach probing native ligand-GPCR interaction. International Journal of Biological Macromolecules, 2022, 206, 911-916.	3.6	6
28	Origin, toxicity and characteristics of two amyloid oligomer polymorphs. RSC Chemical Biology, 2021, 2, 1631-1642.	2.0	5
29	Frequency and temperature dependence of poly(Nâ€isopropylacrylamide) gel rheology. Journal of Applied Polymer Science, 2013, 127, 1527-1537.	1.3	3
30	Multiple Pathways of Lysozyme Aggregation. , 2014, , 389-396.		2
31	Protofibrilâ€“Fibril Interactions Inhibit Amyloid Fibril Assembly by Obstructing Secondary Nucleation. Angewandte Chemie, 2021, 133, 3053-3058.	1.6	2
32	Potassium Accumulation Dominates Short-Term Depression of Neurohypophysial Excitability. Biophysical Journal, 2010, 98, 502a.	0.2	0
33	Self-Replication of Transthyretin Amyloid Aggregates from Native Tetramers in vitro. Biophysical Journal, 2015, 108, 45a.	0.2	0
34	Whatâ€™s in a Sequence? Distinct Structures and Dynamics of Two Disordered Calcitonin Family Peptides. Biophysical Journal, 2015, 109, 852-853.	0.2	0
35	Mechanisms of Protein Fibril Formation in Amyloid Beta and Lysozyme Proteins. Biophysical Journal, 2019, 116, 195a-196a.	0.2	0