

# Glen M Hocky

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,409  
citations

304368

22  
h-index

377514

34  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1427  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growing Point-to-Set Length Scale Correlates with Growing Relaxation Times in Model Supercooled Liquids. <i>Physical Review Letters</i> , 2012, 108, 225506.	2.9	126
2	Fascin- and $\hat{\pm}$ -Actinin-Bundled Networks Contain Intrinsic Structural Features that Drive Protein Sorting. <i>Current Biology</i> , 2016, 26, 2697-2706.	1.8	104
3	Ionic solids from common colloids. <i>Nature</i> , 2020, 580, 487-490.	13.7	87
4	Correlation of Local Order with Particle Mobility in Supercooled Liquids Is Highly System Dependent. <i>Physical Review Letters</i> , 2014, 113, 157801.	2.9	83
5	Competition between Tropomyosin, Fimbrin, and ADF/Cofilin drives their sorting to distinct actin filament networks. <i>ELife</i> , 2017, 6, .	2.8	76
6	Total synthesis of colloidal matter. <i>Nature Reviews Materials</i> , 2021, 6, 1053-1069.	23.3	70
7	Mechanoregulated inhibition of formin facilitates contractile actomyosin ring assembly. <i>Nature Communications</i> , 2017, 8, 703.	5.8	66
8	A Versatile Framework for Simulating the Dynamic Mechanical Structure of Cytoskeletal Networks. <i>Biophysical Journal</i> , 2017, 113, 448-460.	0.2	66
9	Influence of nonlinear electrostatics on transfer energies between liquid phases: Charge burial is far less expensive than Born model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11146-11151.	3.3	54
10	Actin Filament Strain Promotes Severing and Cofilin Dissociation. <i>Biophysical Journal</i> , 2017, 112, 2624-2633.	0.2	49
11	The F-actin bundler $\hat{\pm}$ -actinin Ain1 is tailored for ring assembly and constriction during cytokinesis in fission yeast. <i>Molecular Biology of the Cell</i> , 2016, 27, 1821-1833.	0.9	47
12	Mechanical and kinetic factors drive sorting of F-actin cross-linkers on bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16192-16197.	3.3	43
13	Crossovers in the dynamics of supercooled liquids probed by an amorphous wall. <i>Physical Review E</i> , 2014, 89, 052311.	0.8	42
14	Cations Stiffen Actin Filaments by Adhering a Key Structural Element to Adjacent Subunits. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4558-4567.	1.2	39
15	Phosphomimetic S3D cofilin binds but only weakly severs actin filaments. <i>Journal of Biological Chemistry</i> , 2017, 292, 19565-19579.	1.6	35
16	Nonequilibrium phase diagrams for actomyosin networks. <i>Soft Matter</i> , 2018, 14, 7740-7747.	1.2	35
17	Structure of Arp2/3 complex at a branched actin filament junction resolved by single-particle cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	33
18	Equilibrium ultrastable glasses produced by random pinning. <i>Journal of Chemical Physics</i> , 2014, 141, 224503.	1.2	31

#	ARTICLE	IF	CITATIONS
19	Exploring Valleys without Climbing Every Peak: More Efficient and Forgiving Metabasin Metadynamics via Robust On-the-Fly Bias Domain Restriction. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5638-5650.	2.3	31
20	Insights into the Cooperative Nature of ATP Hydrolysis in Actin Filaments. <i>Biophysical Journal</i> , 2018, 115, 1589-1602.	0.2	29
21	Actin crosslinker competition and sorting drive emergent GUV size-dependent actin network architecture. <i>Communications Biology</i> , 2021, 4, 1136.	2.0	26
22	Protein structure prediction enhanced with evolutionary diversity: SPEED. <i>Protein Science</i> , 2010, 19, 520-534.	3.1	23
23	Residue-Level Allostery Propagates through the Effective Coarse-Grained Hessian. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3385-3395.	2.3	21
24	Communication: Improved <i>ab initio</i> molecular dynamics by minimally biasing with experimental data. <i>Journal of Chemical Physics</i> , 2017, 146, 041102.	1.2	20
25	Plastic Deformation and Fragmentation of Strained Actin Filaments. <i>Biophysical Journal</i> , 2019, 117, 453-463.	0.2	19
26	Natural language processing models that automate programming will transform chemistry research and teaching. , 2022, 1, 79-83.		19
27	Size-and-Shape Space Gaussian Mixture Models for Structural Clustering of Molecular Dynamics Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3218-3230.	2.3	18
28	Structural basis of fast- and slow-severing actin-cofilactin boundaries. <i>Journal of Biological Chemistry</i> , 2021, 296, 100337.	1.6	15
29	Molecular Paradigms for Biological Mechanosensing. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12115-12124.	1.2	14
30	A small subset of normal modes mimics the properties of dynamical heterogeneity in a model supercooled liquid. <i>Journal of Chemical Physics</i> , 2013, 138, 12A537.	1.2	13
31	Infinite switch simulated tempering in force (FISST). <i>Journal of Chemical Physics</i> , 2020, 152, 244120.	1.2	12
32	Assessing models of force-dependent unbinding rates via infrequent metadynamics. <i>Journal of Chemical Physics</i> , 2022, 156, 125102.	1.2	12
33	Coarse-Grained Directed Simulation. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4593-4603.	2.3	11
34	A Burst of Genetic Innovation in <i>Drosophila</i> Actin-Related Proteins for Testis-Specific Function. <i>Molecular Biology and Evolution</i> , 2020, 37, 757-772.	3.5	10
35	Minimal Experimental Bias on the Hydrogen Bond Greatly Improves <i>Ab Initio</i> Molecular Dynamics Simulations of Water. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5675-5684.	2.3	9
36	A strong nonequilibrium bound for sorting of cross-linkers on growing biopolymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	4