George R Heath

List of Publications by Year
in descending order

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28 papers	957 citations	586496 16 h-index	685536 24 g-index
30 all docs	30 docs citations	30 times ranked	1911 citing authors

#	Article	IF	Citations
1	Tuning the rate of aggregation of hIAPP into amyloid using small-molecule modulators of assembly. Nature Communications, 2022, 13, 1040.	5.8	23
2	The Native Orthobunyavirus Ribonucleoprotein Possesses a Helical Architecture. MBio, 2022, 13, .	1.8	10
3	Structural dynamics of channels and transporters by high-speed atomic force microscopy. Methods in Enzymology, 2021, 652, 127-159.	0.4	4
4	Localization atomic force microscopy. Nature, 2021, 594, 385-390.	13.7	110
5	Correlation of membrane protein conformational and functional dynamics. Nature Communications, 2021, 12, 4363.	5.8	17
6	Millisecond dynamics of an unlabeled amino acid transporter. Nature Communications, 2020, 11, 5016.	5.8	27
7	Fibril structures of diabetes-related amylin variants reveal a basis for surface-templated assembly. Nature Structural and Molecular Biology, 2020, 27, 1048-1056.	3.6	71
8	Out-of-Plane Nanoscale Reorganization of Lipid Molecules and Nanoparticles Revealed by Plasmonic Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 2875-2882.	2.1	3
9	CLC Antiporter Dimerization Dynamics Revealed by Novel Developments in High-Speed AFM. Biophysical Journal, 2019, 116, 300a.	0.2	0
10	Millisecond Time Resolution by HS-AFM Line Scanning of Fast GltPh Dynamics. Biophysical Journal, 2019, 116, 557a.	0.2	0
11	Advances in high-speed atomic force microscopy (HS-AFM) reveal dynamics of transmembrane channels and transporters. Current Opinion in Structural Biology, 2019, 57, 93-102.	2.6	68
12	Quantitative Analysis of Structure and Dynamics in AFM Images of Lipid Membranes. Methods in Molecular Biology, 2019, 1886, 29-44.	0.4	3
13	High-speed AFM height spectroscopy reveals Âµs-dynamics of unlabeled biomolecules. Nature Communications, 2018, 9, 4983.	5.8	65
14	Visualization of diffusion limited antimicrobial peptide attack on supported lipid membranes. Soft Matter, 2018, 14, 6146-6154.	1.2	27
15	High-Speed AFM Correlation Spectroscopy (HS-AMF-CS): ÂµS Protein Dynamics without Labels. Biophysical Journal, 2018, 114, 70a-71a.	0.2	0
16	Multilayered Lipid Membrane Stacks for Biocatalysis Using Membrane Enzymes. Advanced Functional Materials, 2017, 27, 1606265.	7.8	35
17	Fluctuating Lipid Nanodomains Near Critical Transitions. Biophysical Journal, 2016, 110, 571a.	0.2	2
18	Highly Fluorescent Ribonuclease-A-Encapsulated Lead Sulfide Quantum Dots for Ultrasensitive Fluorescence <i>in Vivo</i> Imaging in the Second Near-Infrared Window. Chemistry of Materials, 2016, 28, 3041-3050.	3.2	123

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19	Phospholipid dependent mechanism of smp24, an Î±-helical antimicrobial peptide from scorpion venom. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2737-2744.	1.4	27
20	The Ternary Lipid Phase Diagram by AFM. Biophysical Journal, 2016, 110, 582a.	0.2	0
21	Layer-by-Layer Assembly of Supported Lipid Bilayer Poly-l-Lysine Multilayers. Biomacromolecules, 2016, 17, 324-335.	2.6	46
22	New Poly(amino acid methacrylate) Brush Supports the Formation of Well-Defined Lipid Membranes. Langmuir, 2015, 31, 3668-3677.	1.6	16
23	Self-assembly of actin scaffolds on lipid microbubbles. Soft Matter, 2014, 10, 694-700.	1.2	9
24	Diffusion in Low-Dimensional Lipid Membranes. Nano Letters, 2014, 14, 5984-5988.	4.5	15
25	Watching individual molecules flex within lipid membranes using SERS. Scientific Reports, 2014, 4, 5940.	1.6	48
26	Near-infrared fluorescent ribonuclease-A-encapsulated gold nanoclusters: preparation, characterization, cancer targeting and imaging. Nanoscale, 2013, 5, 1009-1017.	2.8	132
27	Actin Assembly at Model-Supported Lipid Bilayers. Biophysical Journal, 2013, 105, 2355-2365.	0.2	14
28	Critical point fluctuations in supported lipid membranes. Faraday Discussions, 2013, 161, 91-111.	1.6	61