

Yuqing Qiu

List of Publications by Year in descending order

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17
papers

1,067
citations

567144

15
h-index

887953

17
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17
docs citations

17
times ranked

1213
citing authors

#	ARTICLE	IF	CITATIONS
1	Ice Nucleation Efficiency of Hydroxylated Organic Surfaces Is Controlled by Their Structural Fluctuations and Mismatch to Ice. <i>Journal of the American Chemical Society</i> , 2017, 139, 3052-3064.	6.6	132
2	Ice-Nucleating and Antifreeze Proteins Recognize Ice through a Diversity of Anchored Clathrate and Ice-like Motifs. <i>Journal of the American Chemical Society</i> , 2018, 140, 4905-4912.	6.6	117
3	Pore condensation and freezing is responsible for ice formation below water saturation for porous particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8184-8189.	3.3	113
4	Coarse-Graining of TIP4P/2005, TIP4P-Ew, SPC/E, and TIP3P to Monatomic Anisotropic Water Models Using Relative Entropy Minimization. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4104-4120.	2.3	108
5	How Size and Aggregation of Ice-Binding Proteins Control Their Ice Nucleation Efficiency. <i>Journal of the American Chemical Society</i> , 2019, 141, 7439-7452.	6.6	99
6	Hydrogen-Bonding and Hydrophobic Groups Contribute Equally to the Binding of Hyperactive Antifreeze and Ice-Nucleating Proteins to Ice. <i>Journal of the American Chemical Society</i> , 2019, 141, 7887-7898.	6.6	91
7	Preordering of water is not needed for ice recognition by hyperactive antifreeze proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8266-8271.	3.3	89
8	Morphology of Liquid-Liquid Phase Separated Aerosols. <i>Journal of the American Chemical Society</i> , 2015, 137, 10642-10651.	6.6	62
9	Why Is It So Difficult to Identify the Onset of Ice Premelting?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5179-5182.	2.1	47
10	Ice nucleation by particles containing long-chain fatty acids of relevance to freezing by sea spray aerosols. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1559-1569.	1.7	37
11	What Controls the Limit of Supercooling and Superheating of Pinned Ice Surfaces?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1712-1720.	2.1	36
12	Promotion of Homogeneous Ice Nucleation by Soluble Molecules. <i>Journal of the American Chemical Society</i> , 2017, 139, 17003-17006.	6.6	32
13	Strength of Alkane-Fluid Attraction Determines the Interfacial Orientation of Liquid Alkanes and Their Crystallization through Heterogeneous or Homogeneous Mechanisms. <i>Crystals</i> , 2017, 7, 86.	1.0	30
14	Is Water at the Graphite Interface Vapor-like or Ice-like?. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3626-3634.	1.2	29
15	Reaction Coordinate for Ice Crystallization on a Soft Surface. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4201-4205.	2.1	28
16	Organization and Self-Assembly Away from Equilibrium: Toward Thermodynamic Design Principles. <i>Annual Review of Condensed Matter Physics</i> , 2021, 12, 273-290.	5.2	13
17	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