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List of Publications by Year
in descending order

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36 papers	2,386 citations	304743 22 h-index	330143 37 g-index

37 all docs	37 docs citations	37 times ranked	3039 citing authors

#	Article	IF	Citations
1	Confinement effects on freezing and melting. Journal of Physics Condensed Matter, 2001, 13, R95-R133.	1.8	491
2	Dehydration and crystallization of amorphous calcium carbonate in solution and in air. Nature Communications, 2014, 5, 3169.	12.8	265
3	Amorphous Calcium Carbonate is Stabilized in Confinement. Advanced Functional Materials, 2010, 20, 2108-2115.	14.9	157
4	A new precipitation pathway for calcium sulfate dihydrate (gypsum) via amorphous and hemihydrate intermediates. Chemical Communications, 2012, 48, 504-506.	4.1	143
5	Early Stages of Crystallization of Calcium Carbonate Revealed in Picoliter Droplets. Journal of the American Chemical Society, 2011, 133, 5210-5213.	13.7	105
6	The nature of the air-cleaved mica surface. Surface Science Reports, 2016, 71, 367-390.	7.2	103
7	Capillarity Creates Singleâ€Crystal Calcite Nanowires from Amorphous Calcium Carbonate. Angewandte Chemie - International Edition, 2011, 50, 12572-12577.	13.8	90
8	High-speed imaging of ice nucleation in water proves the existence of active sites. Science Advances, 2019, 5, eaav4316.	10.3	87
9	Is Ice Nucleation from Supercooled Water Insensitive to Surface Roughness?. Journal of Physical Chemistry C, 2015, 119, 1164-1169.	3.1	85
10	Two-step crystal nucleation via capillary condensation. CrystEngComm, 2013, 15, 2030.	2.6	68
11	Observing the formation of ice and organic crystals in active sites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 810-815.	7.1	66
12	The role of phase separation and related topography in the exceptional ice-nucleating ability of alkali feldspars. Physical Chemistry Chemical Physics, 2017, 19, 31186-31193.	2.8	63
13	Confinement generates single-crystal aragonite rods at room temperature. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7670-7675.	7.1	61
14	Confinement Leads to Control over Calcium Sulfate Polymorph. Advanced Functional Materials, 2013, 23, 5615-5623.	14.9	56
15	Confinement Increases the Lifetimes of Hydroxyapatite Precursors. Chemistry of Materials, 2014, 26, 5830-5838.	6.7	48
16	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. Angewandte Chemie - International Edition, 2017, 56, 11885-11890.	13.8	46
17	Nucleation- and Emergence-Limited Growth of Ice from Pores. Physical Review Letters, 2018, 120, 165701.	7.8	43
18	One-step fabrication of hollow-channel gold nanoflowers with excellent catalytic performance and large single-particle SERS activity. Nanoscale, 2016, 8, 14932-14942.	5.6	38

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19	Stability, resolution, and ultra-low wear amplitude modulation atomic force microscopy of DNA: Small amplitude small set-point imaging. Applied Physics Letters, 2013, 103, .	3.3	35
20	Ice Layer Spreading along a Solid Substrate during Solidification of Supercooled Water: Experiments and Modeling. Langmuir, 2017, 33, 4870-4877.	3.5	34
21	Phase Behavior of Long-Chain n-Alkanes at One and between Two Mica Surfaces. Journal of Physical Chemistry B, 2001, 105, 5906-5913.	2.6	29
22	The Effect of Humidity on the Stability of an Octadecyltriethoxysilane Monolayer Self-Assembled on Untreated and Plasma-Treated Mica. Langmuir, 2002, 18, 2125-2129.	3.5	28
23	Thermodynamic and kinetic supercooling of liquid in a wedge pore. Journal of Chemical Physics, 2008, 129, 154509.	3.0	23
24	Effect of Nanoscale Confinement on the Crystallization of Potassium Ferrocyanide. Crystal Growth and Design, 2016, 16, 5403-5411.	3.0	22
25	Using Confinement To Study the Crystallization Pathway of Calcium Carbonate. Crystal Growth and Design, 2017, 17, 6787-6792.	3.0	22
26	Active sites for ice nucleation differ depending on nucleation mode. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
27	Particles on Melt-Cut Mica Sheets Are Platinum. Langmuir, 2003, 19, 975-976.	3.5	21
28	A two-step mechanism for crystal nucleation without supersaturation. Faraday Discussions, 2012, 159, 123.	3.2	18
29	Characterization of Preferred Crystal Nucleation Sites on Mica Surfaces. Crystal Growth and Design, 2013, 13, 1915-1925.	3.0	16
30	Capillary Condensation of Water between Mica Surfaces above and below Zero-Effect of Surface Ions. Langmuir, 2009, 25, 9908-9912.	3.5	15
31	Crystal Patterns Created by Rupture of a Thin Film. Crystal Growth and Design, 2013, 13, 5062-5067.	3.0	14
32	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. Angewandte Chemie, 2017, 129, 12047-12052.	2.0	12
33	Dynamic Measurement of Low Contact Angles by Optical Microscopy. ACS Applied Materials & Interfaces, 2018, 10, 16893-16900.	8.0	12
34	Exploiting Confinement to Study the Crystallization Pathway of Calcium Sulfate. Advanced Functional Materials, 2021, 31, 2107312.	14.9	11
35	Self-Assembly of Chiral Menthol Molecules from a Liquid Film into Ring-Banded Spherulites. Crystal Growth and Design, 2019, 19, 4063-4069.	3.0	8
36	Phase Behavior in Confinement Studied with a Surface Force Apparatus. Journal of Dispersion Science and Technology, 2006, 27, 617-624.	2.4	6