

Tianshu Li

List of Publications by Year in descending order

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236925

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43
all docs

43
docs citations

43
times ranked

15363
citing authors

#	ARTICLE	IF	CITATIONS
1	Homogeneous ice nucleation rate at negative pressures: The role of the density anomaly. <i>Chemical Physics Letters</i> , 2022, 789, 139289.	2.6	3
2	Phase-Controllable Synthesis of Ultrathin Molybdenum Nitride Crystals Via Atomic Substitution of MoS ₂ . <i>Chemistry of Materials</i> , 2022, 34, 351-357.	6.7	12
3	Flexible and high-performance electrochromic devices enabled by self-assembled 2D TiO ₂ /MXene heterostructures. <i>Nature Communications</i> , 2021, 12, 1587.	12.8	143
4	Spin-induced linear polarization of photoluminescence in antiferromagnetic van der Waals crystals. <i>Nature Materials</i> , 2021, 20, 964-970.	27.5	59
5	Mechanical Instability of Methane Hydrate–Mineral Interface Systems. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46043-46054.	8.0	12
6	Short-range order in SiSn alloy enriched by second-nearest-neighbor repulsion. <i>Physical Review Materials</i> , 2021, 5, .	2.4	3
7	Mechanical Response of Nanocrystalline Ice-Contained Methane Hydrates: Key Role of Water Ice. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14016-14028.	8.0	23
8	Anisotropic Phonon Response of Few-Layer PdSe ₂ under Uniaxial Strain. <i>Advanced Functional Materials</i> , 2020, 30, 2003215.	14.9	26
9	Realization of 2D crystalline metal nitrides via selective atomic substitution. <i>Science Advances</i> , 2020, 6, eaax8784.	10.3	66
10	Short-Range Order in GeSn Alloy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57245-57253.	8.0	20
11	Partial Local Atomic Ordering in Ge-Sn Alloy. , 2019, , .		0
12	Anomalous Stability of Two-Dimensional Ice Confined in Hydrophobic Nanopores. <i>ACS Nano</i> , 2019, 13, 4712-4719.	14.6	19
13	Probing the Domain Architecture in 2D Mo ₂ C via Polarized Raman Spectroscopy. <i>Advanced Materials</i> , 2019, 31, e1807160.	21.0	58
14	Effect of hydrophilic silica nanoparticles on hydrate formation: Insight from the experimental study. <i>Journal of Energy Chemistry</i> , 2019, 30, 90-100.	12.9	61
15	Formation of inclusion type silicon phases induced by inert gases. <i>Communications Chemistry</i> , 2018, 1, .	4.5	6
16	Mechanical properties of bi- and poly-crystalline ice. <i>AIP Advances</i> , 2018, 8, .	1.3	14
17	Semiconducting cubic titanium nitride in the Th ₃ P ₄ structure. <i>Physical Review Materials</i> , 2018, 2, .	2.4	24
18	Enhanced heterogeneous ice nucleation by special surface geometry. <i>Nature Communications</i> , 2017, 8, 15372.	12.8	120

#	ARTICLE	IF	CITATIONS
19	Free energy landscape and molecular pathways of gas hydrate nucleation. Journal of Chemical Physics, 2016, 145, 211909.	3.0	62
20	Microscopic Mechanism and Kinetics of Ice Formation at Complex Interfaces: Zooming in on Kaolinite. Journal of Physical Chemistry Letters, 2016, 7, 2350-2355.	4.6	77
21	Heterogeneous Ice Nucleation Controlled by the Coupling of Surface Crystallinity and Surface Hydrophilicity. Journal of Physical Chemistry C, 2016, 120, 1507-1514.	3.1	104
22	Ice nucleation on carbon surface supports the classical theory for heterogeneous nucleation. Physical Review E, 2015, 91, 052402.	2.1	93
23	Interlayer Electronic Coupling in Arbitrarily Stacked MoS ₂ Bilayers Controlled by Interlayer S-S Interaction. Journal of Physical Chemistry C, 2015, 119, 1247-1252.	3.1	25
24	Pressure-Modulated Conductivity, Carrier Density, and Mobility of Multilayered Tungsten Disulfide. ACS Nano, 2015, 9, 9117-9123.	14.6	120
25	Reply to "Comment on "Ideal strength and phonon instability in single-layer MoS ₂ ". Physical Review B, 2014, 90, .	3.2	12
26	Probing Methane Hydrate Nucleation through the Forward Flux Sampling Method. Journal of Physical Chemistry B, 2014, 118, 13324-13332.	2.6	83
27	Ice nucleation at the nanoscale probes no man's land of water. Nature Communications, 2013, 4, 1887.	12.8	112
28	Band offsets and dielectric properties of the amorphous Si ₃ N ₄ /Si(100) interface: A first-principles study. Applied Physics Letters, 2013, 102, .	3.3	23
29	Ideal strength and phonon instability in single-layer MoS ₂ . Physical Review B, 2012, 85, .	3.2	337
30	Tailored Nanoheterojunctions for Optimized Light Emission. Physical Review Letters, 2011, 107, 206805.	7.8	22
31	Homogeneous ice nucleation from supercooled water. Physical Chemistry Chemical Physics, 2011, 13, 19807.	2.8	226
32	Microscopic modeling of the dielectric properties of silicon nitride. Physical Review B, 2011, 84, .	3.2	14
33	First-principles investigations of the dielectric properties of crystalline and amorphous Si ₃ N ₄ thin films. Applied Physics Letters, 2010, 96, 062902.	3.3	25
34	Spreading of dislocation cores in elastically anisotropic body-centered-cubic materials: The case of gum metal. Physical Review B, 2010, 82, .	3.2	46
35	Emerging Photoluminescence in Monolayer MoS ₂ . Nano Letters, 2010, 10, 1271-1275.	9.1	7,897
36	Nucleation of tetrahedral solids: A molecular dynamics study of supercooled liquid silicon. Journal of Chemical Physics, 2009, 131, 224519.	3.0	34

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37	Surface-induced crystallization in supercooled tetrahedral liquids. Nature Materials, 2009, 8, 726-730.	27.5	84
38	â€œIdealâ€•Engineering Alloys. Physical Review Letters, 2007, 98, 105503.	7.8	181
39	Electronic Properties of MoS ₂ Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 16192-16196.	3.1	634
40	Ab initio study of the ideal shear strength and elastic deformation behaviors of B2FeAl and NiAl. Physical Review B, 2006, 73, .	3.2	20
41	Ideal tensile strength of B2 transition-metal aluminides. Physical Review B, 2004, 70, .	3.2	52
42	Microstructure and nanoindentation hardness of Ti/TiN multilayered films. Surface and Coatings Technology, 2001, 137, 225-229.	4.8	64