

Xuezeng Tian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4580141/publications.pdf>

Version: 2024-02-01

33
papers

1,589
citations

430442

18
h-index

500791

28
g-index

35
all docs

35
docs citations

35
times ranked

3221
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Growth of High-Quality Polycrystalline MoS ₂ Monolayers on SiO ₂ with Tunable Grain Sizes. ACS Nano, 2014, 8, 6024-6030.	7.3	263
2	Observing crystal nucleation in four dimensions using atomic electron tomography. Nature, 2019, 570, 500-503.	13.7	219
3	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. Energy and Environmental Science, 2016, 9, 2563-2570.	15.6	216
4	Determining the three-dimensional atomic structure of an amorphous solid. Nature, 2021, 592, 60-64.	13.7	193
5	Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. Nature Materials, 2020, 19, 867-873.	13.3	96
6	Bipolar Electrochemical Mechanism for Mass Transfer in Nanoionic Resistive Memories. Advanced Materials, 2014, 26, 3649-3654.	11.1	89
7	The Piezotronic Effect of Zinc Oxide Nanowires Studied by In Situ TEM. Advanced Materials, 2012, 24, 4676-4682.	11.1	58
8	A General Route Towards Defect and Pore Engineering in Graphene. Small, 2014, 10, 2280-2284.	5.2	46
9	Optical visualization and polarized light absorption of the single-wall carbon nanotube to verify intrinsic thermal applications. Light: Science and Applications, 2015, 4, e318-e318.	7.7	43
10	Designing artificial two-dimensional landscapes via atomic-layer substitution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
11	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. Nano Research, 2022, 15, 9785-9791.	5.8	36
12	Cationâ€Deficiencyâ€Dependent CO ₂ Electroreduction over Copperâ€Based Ruddlesdenâ€Popper Perovskite Oxides. Angewandte Chemie - International Edition, 2022, 61, .	7.2	33
13	Filament growth dynamics in solid electrolyte-based resistive memories revealed by in situ TEM. Nano Research, 2014, 7, 1065-1072.	5.8	30
14	Covalent 2D Cr ₂ Te ₃ ferromagnet. Materials Research Letters, 2021, 9, 205-212.	4.1	25
15	Chemical trends of deep levels in van der Waals semiconductors. Nature Communications, 2020, 11, 5373.	5.8	24
16	Aggregation dynamics of nanoparticles at solidâ€liquid interfaces. Nanoscale, 2017, 9, 10044-10050.	2.8	24
17	Real-time in situ TEM studying the fading mechanism of tin dioxide nanowire electrodes in lithium ion batteries. Science China Technological Sciences, 2013, 56, 2630-2635.	2.0	23
18	Exotic Reaction Front Migration and Stage Structure in Lithiated Silicon Nanowires. ACS Nano, 2014, 8, 8249-8254.	7.3	18

#	ARTICLE	IF	CITATIONS
19	Revealing the Brønsted-Evans-Polanyi relation in halide-activated fast MoS ₂ growth toward millimeter-sized 2D crystals. <i>Science Advances</i> , 2021, 7, eabj3274.	4.7	18
20	Vapor-phase preparation of gold nanocrystals by chloroauric acid pyrolysis. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 21-27.	5.0	17
21	Ptychographic atomic electron tomography: Towards three-dimensional imaging of individual light atoms in materials. <i>Physical Review B</i> , 2020, 102, .	1.1	14
22	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021, 7, eabi6699.	4.7	13
23	Recent development of studies on the mechanism of resistive memories in several metal oxides. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 2361-2369.	2.0	12
24	Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination. <i>Small</i> , 2018, 14, e1803231.	5.2	10
25	Dynamic nanomechanics of zinc oxide nanowires. <i>Applied Physics Letters</i> , 2012, 100, 163110.	1.5	9
26	In-situ TEM imaging of the anisotropic etching of graphene by metal nanoparticles. <i>Nanotechnology</i> , 2014, 25, 465709.	1.3	9
27	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric W_1S_2 . <i>Physical Review B</i> , 2022, 105, .	1.1	6
28	Determining the 3D Atomic Coordinates and Crystal Defects in 2D Materials with Picometer Precision. <i>Microscopy and Microanalysis</i> , 2019, 25, 404-405.	0.2	1
29	Nanocrystal Dynamics: Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination (<i>Small</i> 48/2018). <i>Small</i> , 2018, 14, 1870231.	5.2	0
30	Atomic Electron Tomography: Adding a New Dimension to See Single Atoms in Materials. <i>Microscopy and Microanalysis</i> , 2018, 24, 558-559.	0.2	0
31	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2019, 25, 398-399.	0.2	0
32	4D Atomic Electron Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1814-1815.	0.2	0
33	Cation-Deficiency-Dependent CO ₂ Electroreduction over Copper-Based Ruddlesden-Popper Perovskite Oxides. <i>Angewandte Chemie</i> , 2022, 134, e202111670.	1.6	0