Xuezeng Tian

List of Publications by Year
in descending order

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33 papers	1,589 citations	430874 18 h-index	501196 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 MoS₂ Monolayers on SiO₂ with Tunable Grain Sizes. ACS Nano, 2014, 8, 6024-6030.	14.6	263
2	Observing crystal nucleation in four dimensions using atomic electron tomography. Nature, 2019, 570, 500-503.	27.8	219
3	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. Energy and Environmental Science, 2016, 9, 2563-2570.	30.8	216
4	Determining the three-dimensional atomic structure of an amorphous solid. Nature, 2021, 592, 60-64.	27.8	193
5	Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. Nature Materials, 2020, 19, 867-873.	27.5	96
6	Bipolar Electrochemical Mechanism for Mass Transfer in Nanoionic Resistive Memories. Advanced Materials, 2014, 26, 3649-3654.	21.0	89
7	The Piezotronic Effect of Zinc Oxide Nanowires Studied by In Situ TEM. Advanced Materials, 2012, 24, 4676-4682.	21.0	58
8	A General Route Towards Defect and Pore Engineering in Graphene. Small, 2014, 10, 2280-2284.	10.0	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.	16.6	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, .	7.1	43
11	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. Nano Research, 2022, 15, 9785-9791.	10.4	36
12	Cationâ€Deficiencyâ€Dependent CO₂ Electroreduction over Copperâ€Based Ruddlesdenâ€“Popper Perovskite Oxides. Angewandte Chemie - International Edition, 2022, 61, .	13.8	33
13	Filament growth dynamics in solid electrolyte-based resistive memories revealed by in situ TEM. Nano Research, 2014, 7, 1065-1072.	10.4	30
14	Covalent 2D Cr₂Te₃ ferromagnet. Materials Research Letters, 2021, 9, 205-212.	8.7	25
15	Chemical trends of deep levels in van der Waals semiconductors. Nature Communications, 2020, 11, 5373.	12.8	24
16	Aggregation dynamics of nanoparticles at solidâ€“liquid interfaces. Nanoscale, 2017, 9, 10044-10050.	5.6	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.	4.0	23
18	Exotic Reaction Front Migration and Stage Structure in Lithiated Silicon Nanowires. ACS Nano, 2014, 8, 8249-8254.	14.6	18

#	Article	IF	Citations
19	Revealing the BrÃ¸nsted-Evans-Polanyi relation in halide-activated fast MoS ₂ growth toward millimeter-sized 2D crystals. Science Advances, 2021, 7, eabj3274.	10.3	18
20	Vapor-phase preparation of gold nanocrystals by chloroauric acid pyrolysis. Journal of Colloid and Interface Science, 2015, 439, 21-27.	9.4	17
21	Ptychographic atomic electron tomography: Towards three-dimensional imaging of individual light atoms in materials. Physical Review B, 2020, 102, .	3.2	14
22	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. Science Advances, 2021, 7, eabi6699.	10.3	13
23	Recent development of studies on the mechanism of resistive memories in several metal oxides. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2361-2369.	5.1	12
24	Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination. Small, 2018, 14, e1803231.	10.0	10
25	Dynamic nanomechanics of zinc oxide nanowires. Applied Physics Letters, 2012, 100, 163110.	3.3	9
26	In-situ TEM imaging of the anisotropic etching of graphene by metal nanoparticles. Nanotechnology, 2014, 25, 465709.	2.6	9
27	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mi>T</mml:mi><mml:mo mathvariant="normal">W</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	3.2	6
28	Determining the 3D Atomic Coordinates and Crystal Defects in 2D Materials with Picometer Precision. Microscopy and Microanalysis, 2019, 25, 404-405.	0.4	1
29	Nanocrystal Dynamics: Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination (Small 48/2018). Small, 2018, 14, 1870231.	10.0	0
30	Atomic Electron Tomography: Adding a New Dimension to See Single Atoms in Materials. Microscopy and Microanalysis, 2018, 24, 558-559.	0.4	0
31	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. Microscopy and Microanalysis, 2019, 25, 398-399.	0.4	0
32	4D Atomic Electron Tomography. Microscopy and Microanalysis, 2019, 25, 1814-1815.	0.4	0
33	Cationâ€Deficiencyâ€Dependent CO2 Electroreduction over Copperâ€Based Ruddlesdenâ€Popper Perovskite Oxides. Angewandte Chemie, 2022, 134, e202111670.	2.0	0