

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	Cationâ€Deficiencyâ€Dependent CO ₂ Electroreduction over Copperâ€Based Ruddlesdenâ€Popper Perovskite Oxides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	33
2	Cationâ€Deficiencyâ€Dependent CO ₂ Electroreduction over Copperâ€Based Ruddlesdenâ€Popper Perovskite Oxides. <i>Angewandte Chemie</i> , 2022, 134, e202111670.	2.0	0
3	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. <i>Nano Research</i> , 2022, 15, 9785-9791.	10.4	36
4	Enhanced critical field and anomalous metallic state in two-dimensional centrosymmetric TW_1S_2 . <i>Physical Review B</i> , 2022, 105, .	3.2	6
5	Covalent 2D Cr ₂ Te ₃ ferromagnet. <i>Materials Research Letters</i> , 2021, 9, 205-212.	8.7	25
6	Determining the three-dimensional atomic structure of an amorphous solid. <i>Nature</i> , 2021, 592, 60-64.	27.8	193
7	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	43
8	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021, 7, eabi6699.	10.3	13
9	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.	10.3	18
10	Ptychographic atomic electron tomography: Towards three-dimensional imaging of individual light atoms in materials. <i>Physical Review B</i> , 2020, 102, .	3.2	14
11	Chemical trends of deep levels in van der Waals semiconductors. <i>Nature Communications</i> , 2020, 11, 5373.	12.8	24
12	Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. <i>Nature Materials</i> , 2020, 19, 867-873.	27.5	96
13	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2019, 25, 398-399.	0.4	0
14	Determining the 3D Atomic Coordinates and Crystal Defects in 2D Materials with Picometer Precision. <i>Microscopy and Microanalysis</i> , 2019, 25, 404-405.	0.4	1
15	4D Atomic Electron Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1814-1815.	0.4	0
16	Observing crystal nucleation in four dimensions using atomic electron tomography. <i>Nature</i> , 2019, 570, 500-503.	27.8	219
17	Nanocrystal Dynamics: Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination (Small 48/2018). <i>Small</i> , 2018, 14, 1870231.	10.0	0
18	Spontaneous Reshaping and Splitting of AgCl Nanocrystals under Electron Beam Illumination. <i>Small</i> , 2018, 14, e1803231.	10.0	10

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19	Atomic Electron Tomography: Adding a New Dimension to See Single Atoms in Materials. <i>Microscopy and Microanalysis</i> , 2018, 24, 558-559.	0.4	0
20	Aggregation dynamics of nanoparticles at solid-liquid interfaces. <i>Nanoscale</i> , 2017, 9, 10044-10050.	5.6	24
21	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 2563-2570.	30.8	216
22	Optical visualization and polarized light absorption of the single-wall carbon nanotube to verify intrinsic thermal applications. <i>Light: Science and Applications</i> , 2015, 4, e318-e318.	16.6	43
23	Vapor-phase preparation of gold nanocrystals by chloroauric acid pyrolysis. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 21-27.	9.4	17
24	Bipolar Electrochemical Mechanism for Mass Transfer in Nanoionic Resistive Memories. <i>Advanced Materials</i> , 2014, 26, 3649-3654.	21.0	89
25	A General Route Towards Defect and Pore Engineering in Graphene. <i>Small</i> , 2014, 10, 2280-2284.	10.0	46
26	Scalable Growth of High-Quality Polycrystalline MoS ₂ Monolayers on SiO ₂ with Tunable Grain Sizes. <i>ACS Nano</i> , 2014, 8, 6024-6030.	14.6	263
27	In-situ TEM imaging of the anisotropic etching of graphene by metal nanoparticles. <i>Nanotechnology</i> , 2014, 25, 465709.	2.6	9
28	Exotic Reaction Front Migration and Stage Structure in Lithiated Silicon Nanowires. <i>ACS Nano</i> , 2014, 8, 8249-8254.	14.6	18
29	Filament growth dynamics in solid electrolyte-based resistive memories revealed by in situ TEM. <i>Nano Research</i> , 2014, 7, 1065-1072.	10.4	30
30	Real-time in situ TEM studying the fading mechanism of tin dioxide nanowire electrodes in lithium ion batteries. <i>Science China Technological Sciences</i> , 2013, 56, 2630-2635.	4.0	23
31	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.	5.1	12
32	Dynamic nanomechanics of zinc oxide nanowires. <i>Applied Physics Letters</i> , 2012, 100, 163110.	3.3	9
33	The Piezotronic Effect of Zinc Oxide Nanowires Studied by In Situ TEM. <i>Advanced Materials</i> , 2012, 24, 4676-4682.	21.0	58