Jing Tao

List of Publications by Year in descending order

56 papers	3,325 citations	257450 24 h-index	161849 54 g-index
61 all docs	61 docs citations	61 times ranked	6708 citing authors

#	Article	IF	Citations
1	Direct Detection of V-V Atom Dimerization and Rotation Dynamic Pathways upon Ultrafast Photoexcitation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review X, 2022, 12, .	8.9	6
2	Visualizing lattice dynamic behavior by acquiring a single time-resolved MeV diffraction image. Journal of Applied Physics, 2021, 129, 054901.	2.5	4
3	Coexistence and Coupling of Multiple Charge Orderings and Spin States in Hexagonal Ferrite. Nano Letters, 2021, 21, 5782-5787.	9.1	2
4	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic LuFeO₃. Nano Letters, 2021, 21, 6648-6655.	9.1	8
5	A Metal-on-Metal Growth Approach to Metalâ€“Metal Oxide Coreâ€“Shell Nanostructures with Plasmonic Properties. Journal of Physical Chemistry C, 2020, 124, 17191-17203.	3.1	3
6	Concurrent probing of electron-lattice dephasing induced by photoexcitation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:mrow></mml:m -TaSeTe using ultrafast electron diffraction. Physical Review B, 2020, 101, .	3.2	6
7	K3Ir2O6 and K16.3Ir8O30, Low-Dimensional Iridates with Infinite IrO6 Chains. Journal of the American Chemical Society, 2020, 142, 5389-5395.	13.7	10
8	Out-of-plane magnetic anisotropy enhancement in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></ mathvariant="normal">S</mml:mi><mml:msub><mml:mi	3.2	8
9	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></ mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>Ru</mml:mi><mml:msub><mml:mi	2.4	9
10	Atomically imaged crystal structure and normal-state properties of superconducting Ca10Pt4As8((Fe1â^’xPtx)2As2)5. Physical Review B, 2019, 100, .	3.2	3
11	Thickness-dependent magnetic order in CrI3 single crystals. Scientific Reports, 2019, 9, 13599.	3.3	47
12	Anisotropic magnetocaloric effect in Fe3â^’xGeTe2. Scientific Reports, 2019, 9, 13233.	3.3	22
13	Charge-Lattice Coupling in Hole-Doped LuFe2O4+Î´ : The Origin of Second-Order Modulation. Physical Review Letters, 2019, 122, 126401.	7.8	13
14	Seed-Mediated Growth of Au Nanospheres into Hexagonal Stars and the Emergence of a Hexagonal Close-Packed Phase. Nano Letters, 2019, 19, 3115-3121.	9.1	44
15	The hâ€“_xWO_{3+2x} Oxygen Excess Antimony Tungsten Bronze. Chemistry - A European Journal, 2019, 25, 2082-2088.	3.3	6
16	Ptâ€“Ni Seed-Core-Frame Hierarchical Nanostructures and Their Conversion to Nanoframes for Enhanced Methanol Electro-Oxidation. Catalysts, 2019, 9, 39.	3.5	8
17	Smectic and nematic phase modulations and transitions under electron beam in Tb2Cu0.83Pd0.17O4. Physical Review Materials, 2019, 3, .	2.4	0
18	Anomalous Conductivity Tailored by Domain-Boundary Transport in Crystalline Bismuth Vanadate Photoanodes. Chemistry of Materials, 2018, 30, 1677-1685.	6.7	35

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19	Tailoring the Surface Structures of CuPt and CuPtRu 1D Nanostructures by Coupling Coreduction with Galvanic Replacement. Particle and Particle Systems Characterization, 2018, 35, 1800053.	2.3	5
20	Dendritic Coreâ€Frame and Frame Multimetallic Rhombic Dodecahedra: A Comparison Study of Composition and Structure Effects on Electrocatalysis of Methanol Oxidation. ChemNanoMat, 2018, 4, 76-87.	2.8	11
21	Observation of Anisotropic Charge Density Wave in Layered 1T-TiSe2. Microscopy and Microanalysis, 2018, 24, 230-231.	0.4	0
22	Stabilizing the Tb-based 214 cuprate by partial Pd substitution. Journal of Materials Research, 2018, 33, 1690-1697.	2.6	3
23	The effect of scanning jitter on geometric phase analysis in STEM images. Ultramicroscopy, 2018, 194, 167-174.	1.9	8
24	Probing the pathway of an ultrafast structural phase transition to illuminate the transition mechanism in Cu2S. Applied Physics Letters, 2018, 113, 041904.	3.3	8
25	Unconventional Relation between Charge Transport and Photocurrent via Boosting Small Polaron Hopping for Photoelectrochemical Water Splitting. ACS Energy Letters, 2018, 3, 2232-2239.	17.4	61
26	Reversible Structure Manipulation by Tuning Electron Dose Rate on Metastable CU2S. Microscopy and Microanalysis, 2018, 24, 94-95.	0.4	1
27	Linearly aligned single-chiral vortices in hexagonal manganites by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="italic">in</mml:mi><mml:mspace width="4pt" /><mml:mi mathvariant="italic">situ</mml:mi></mml:math> electric arc heating. Physical Review Materials, 2018, 2, .	2.4	4
28	An Enzyme-Free Signal Amplification Technique for Ultrasensitive Colorimetric Assay of Disease Biomarkers. ACS Nano, 2017, 11, 2052-2059.	14.6	150
29	Photoelectrochemical water splitting with a SrTiO₃:Nb/SrTiO₃ n⁺â€“n homojunction structure. Physical Chemistry Chemical Physics, 2017, 19, 2760-2767.	2.8	20
30	Pentatwinned Cu Nanowires with Ultrathin Diameters below 20â€…nm and Their Use as Templates for the Synthesis of Auâ€Based Nanotubes. ChemNanoMat, 2017, 3, 190-195.	2.8	25
31	Reversible structure manipulation by tuning carrier concentration in metastable Cu ₂ S. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9832-9837.	7.1	16
32	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. Nano Letters, 2017, 17, 5572-5579.	9.1	235
33	Interfacial Coupling and Polarization of Perovskite ABO3 Heterostructures. Microscopy and Microanalysis, 2017, 23, 1586-1587.	0.4	1
34	Anisotropic charge density wave in layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mo>â^’</mml:mo><mml:m mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2017, 1, .	2.4	11
35	Pentaâ€Twinned Copper Nanorods: Facile Synthesis via Seedâ€Mediated Growth and Their Tunable Plasmonic Properties. Advanced Functional Materials, 2016, 26, 1209-1216.	14.9	107
36	Dichotomy in ultrafast atomic dynamics as direct evidence of polaron formation in manganites. Npj Quantum Materials, 2016, 1, .	5.2	31

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37	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. ACS Nano, 2016, 10, 9861-9870.	14.6	149
38	Effect of electron count and chemical complexity in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7144-E7150.	7.1	114
39	Correlating the chemical composition and size of various metal oxide substrates with the catalytic activity and stability of as-deposited Pt nanoparticles for the methanol oxidation reaction. Catalysis Science and Technology, 2016, 6, 2435-2450.	4.1	29
40	Grapheneâ€“Silicon Layered Structures on Singleâ€Crystalline Ir(111) Thin Films. Advanced Materials Interfaces, 2015, 2, 1400543.	3.7	12
41	Octonary Resistance States in La_{0.7}Sr_{0.3}MnO₃/BaTiO₃/La_{0.7}Sr_{0.3}MnO₃ Multiferroic Tunnel Junctions. Advanced Electronic Materials, 2015, 1, 1500183.	6.1	23
42	Velocity of domain-wall motion during polarization reversal in ferroelectric thin films: Beyond Merz's Law. Physical Review B, 2015, 91, .	3.2	28
43	Experimental Verification of the Van Vleck Nature of Long-Range Ferromagnetic Order in the Vanadium-Doped Three-Dimensional Topological Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sb</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review Letters, 2015, 114, 146802.	7.8	79
44	Polytypism, polymorphism, and superconductivity in TaSe ₂ _{â^'x} Te _x. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1174-80.	7.1	90
45	Cr-Doped TiSe₂ â€“ A Layered Dichalcogenide Spin Glass. Chemistry of Materials, 2015, 27, 6810-6817.	6.7	24
46	Pdâ€“Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 7520-7529.	14.9	134
47	Large, non-saturating magnetoresistance in WTe2. Nature, 2014, 514, 205-208.	27.8	1,329
48	Anisotropic Seeded Growth of Cuâ€“M (M = Au, Pt, or Pd) Bimetallic Nanorods with Tunable Optical and Catalytic Properties. Journal of Physical Chemistry C, 2013, 117, 8924-8932.	3.1	104
49	Mixed-valence-driven heavy-fermion behavior and superconductivity in KNi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 86, .	3.2	71
50	Nanoclusters in magnetoresistance. Nanotechnology Reviews, 2012, 1, 301-311.	5.8	0
51	RÃ¼cktitelbild: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (Angew. Chem. 10/2012). Angewandte Chemie, 2012, 124, 2562-2562.	2.0	0
52	Back Cover: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (Angew. Chem. Int. Ed. 10/2012). Angewandte Chemie - International Edition, 2012, 51, 2512-2512.	13.8	0
53	Role of structurally and magnetically modified nanoclusters in colossal magnetoresistance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20941-20946.	7.1	22
54	Spontaneous Growth of ZnCO₃ Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. Chemistry of Materials, 2010, 22, 149-154.	6.7	58

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55	Electronic and crystal-field effects in the fine structure of electron energy-loss spectra of manganites. Physical Review B, 2009, 79, .	3.2	32
56	Orbital-Occupancy versus Charge Ordering and the Strength of Electron Correlations in Electron-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaMnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2007, 99, 036402.	7.8	66