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	Large, non-saturating magnetoresistance in WTe2. Nature, 2014, 514, 205-208.	27.8	1,329
2	Platinum-Decorated Gold Nanoparticles with Dual Functionalities for Ultrasensitive Colorimetric in Vitro Diagnostics. Nano Letters, 2017, 17, 5572-5579.	9.1	235
3	An Enzyme-Free Signal Amplification Technique for Ultrasensitive Colorimetric Assay of Disease Biomarkers. ACS Nano, 2017, 11, 2052-2059.	14.6	150
4	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. ACS Nano, 2016, 10, 9861-9870.	14.6	149
5	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
6	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
7	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
8	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
9	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
10	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></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2015, 114, 146802.	7.8	79
11	Mixed-valent ground state, local moment 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	3.2	71
12	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
13	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
14	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
15	Thickness-dependent magnetic order in CrI3 single crystals. Scientific Reports, 2019, 9, 13599.	3.3	47
16	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
17	Anomalous Conductivity Tailored by Domain-Boundary Transport in Crystalline Bismuth Vanadate Photoanodes. Chemistry of Materials, 2018, 30, 1677-1685.	6.7	35
18	Electronic and crystal-field effects in the fine structure of electron energy-loss spectra of manganites. Physical Review B, 2009, 79, .	3.2	32

#	Article	IF	Citations
19	Dichotomy in ultrafast atomic dynamics as direct evidence of polaron formation in manganites. Npj Quantum Materials, 2016, 1, .	5.2	31
20	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
21	Velocity of domain-wall motion during polarization reversal in ferroelectric thin films: Beyond Merz's Law. Physical Review B, 2015, 91, .	3.2	28
22	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
23	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	24
24	Cr-Doped TiSe₂ â€“ A Layered Dichalcogenide Spin Glass. Chemistry of Materials, 2015, 27, 6810-6817.	6.7	24
25	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
26	Anisotropic magnetocaloric effect in Fe3â^'xGeTe2. Scientific Reports, 2019, 9, 13233.	3.3	22
27	Photoelectrochemical water splitting with a SrTiO₃:Nb/SrTiO₃ n⁺â€“n homojunction structure. Physical Chemistry Chemical Physics, 2017, 19, 2760-2767.	2.8	20
28	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
29	Charge-Lattice Coupling in Hole-Doped LuFe2O4+Î´: The Origin of Second-Order Modulation. Physical Review Letters, 2019, 122, 126401.	7.8	13
30	Grapheneâ€“Silicon Layered Structures on Singleâ€Crystalline Ir(111) Thin Films. Advanced Materials Interfaces, 2015, 2, 1400543.	3.7	12
31	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
32	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:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2017, 1, .	2.4	11
33	K3Ir2O6 and K16.3Ir8O30, Low-Dimensional Iridates with Infinite IrO6 Chains. Journal of the American Chemical Society, 2020, 142, 5389-5395.	13.7	10
34	Long-range and local crystal structures of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><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></mml:mrow></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Ru</mml:mi><mml:msub><mml:mi	2.4	9
35	The effect of scanning jitter on geometric phase analysis in STEM images. Ultramicroscopy, 2018, 194, 167-174.	1.9	8
36	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

#	Article	IF	Citations
37	Ptâ€“Ni Seed-Core-Frame Hierarchical Nanostructures and Their Conversion to Nanoframes for Enhanced Methanol Electro-Oxidation. Catalysts, 2019, 9, 39.	3.5	8
38	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></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>Co</mml:mi><mml:msub><mml:mi	3.2	8
39	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic LuFeO₃. Nano Letters, 2021, 21, 6648-6655.	9.1	8
40	The hâ€“_xWO_{3+2x} Oxygen Excess Antimony Tungsten Bronze. Chemistry - A European Journal, 2019, 25, 2082-2088.	3.3	6
41	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:math> -TaSeTe using ultrafast electron diffraction. Physical Review B, 2020, 101, .	3.2	6
42	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:mi>2</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review X, 2022, 12, .	8.9	6
43	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
44	Visualizing lattice dynamic behavior by acquiring a single time-resolved MeV diffraction image. Journal of Applied Physics, 2021, 129, 054901.	2.5	4
45	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
46	Stabilizing the Tb-based 214 cuprate by partial Pd substitution. Journal of Materials Research, 2018, 33, 1690-1697.	2.6	3
47	Atomically imaged crystal structure and normal-state properties of superconducting Ca10Pt4As8((Fe1â^’xPtx)2As2)5. Physical Review B, 2019, 100, .	3.2	3
48	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
49	Coexistence and Coupling of Multiple Charge Orderings and Spin States in Hexagonal Ferrite. Nano Letters, 2021, 21, 5782-5787.	9.1	2
50	Interfacial Coupling and Polarization of Perovskite ABO3 Heterostructures. Microscopy and Microanalysis, 2017, 23, 1586-1587.	0.4	1
51	Reversible Structure Manipulation by Tuning Electron Dose Rate on Metastable CU2S. Microscopy and Microanalysis, 2018, 24, 94-95.	0.4	1
52	Nanoclusters in magnetoresistance. Nanotechnology Reviews, 2012, 1, 301-311.	5.8	0
53	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
54	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

#	Article	IF	Citations
55	Observation of Anisotropic Charge Density Wave in Layered 1T-TiSe2. Microscopy and Microanalysis, 2018, 24, 230-231.	0.4	0
56	Smectic and nematic phase modulations and transitions under electron beam in Tb2Cu0.83Pd0.17O4. Physical Review Materials, 2019, 3, .	2.4	0