

# Xiao Tong

## List of Publications by Year in descending order

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71  
papers

2,023  
citations

257450

24  
h-index

254184

43  
g-index

72  
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72  
docs citations

72  
times ranked

3848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-50-nm self-assembled nanotextures for enhanced broadband antireflection in silicon solar cells. <i>Nature Communications</i> , 2015, 6, 5963.	12.8	230
2	Role of Chemical Composition in the Enhanced Catalytic Activity of Pt-Based Alloyed Ultrathin Nanowires for the Hydrogen Oxidation Reaction under Alkaline Conditions. <i>ACS Catalysis</i> , 2016, 6, 3895-3908.	11.2	155
3	A single-atom library for guided monometallic and concentration-complex multimetallic designs. <i>Nature Materials</i> , 2022, 21, 681-688.	27.5	145
4	Heterogeneous WS <sub>2</sub> /WO <sub>3</sub> Thorn-Bush Nanofiber Electrodes for Sodium-Ion Batteries. <i>ACS Nano</i> , 2016, 10, 3257-3266.	14.6	121
5	The impact of surface composition on the interfacial energetics and photoelectrochemical properties of BiVO <sub>4</sub> . <i>Nature Energy</i> , 2021, 6, 287-294.	39.5	108
6	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40067-40077.	8.0	79
7	Modulating the electronic structure of ultrathin layered double hydroxide nanosheets with fluorine: an efficient electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14483-14488.	10.3	73
8	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. <i>Advanced Materials</i> , 2016, 28, 1940-1949.	21.0	71
9	Atomic Structure Evolution of Pt-Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. <i>Advanced Materials</i> , 2021, 33, e2106371.	21.0	62
10	Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. <i>Nature Communications</i> , 2019, 10, 1650.	12.8	60
11	Thickness-dependent magnetic order in CrI <sub>3</sub> single crystals. <i>Scientific Reports</i> , 2019, 9, 13599.	3.3	47
12	Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10%. <i>Advanced Energy Materials</i> , 2016, 6, 1600660.	19.5	46
13	Pt and Pd catalyzed oxidation of Li <sub>2</sub> O and DMSO during Li-O <sub>2</sub> battery charging. <i>Chemical Communications</i> , 2016, 52, 6605-6608.	4.1	45
14	The effect of chemical structure on the stability of physical vapor deposited glasses of 1,3,5-triarylbenzene. <i>Journal of Chemical Physics</i> , 2015, 143, 084506.	3.0	42
15	Mechanical Decoupling of Graphene from Ru(0001) by Interfacial Reaction with Oxygen. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6320-6324.	3.1	41
16	Ultrathin Lutetium Oxide Film as an Epitaxial Hole-Blocking Layer for Crystalline Bismuth Vanadate Water Splitting Photoanodes. <i>Advanced Functional Materials</i> , 2018, 28, 1705512.	14.9	40
17	Layer-Dependent Photoinduced Electron Transfer in OD-2D Lead Sulfide/Cadmium Sulfide-Layered Molybdenum Disulfide Hybrids. <i>ACS Nano</i> , 2019, 13, 8461-8468.	14.6	39
18	Reactivity of a Zirconia-Copper Inverse Catalyst for CO <sub>2</sub> Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22158-22172.	3.1	37



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37	Synthesis, Structural Characterization, and Growth Mechanism of $\text{Li}_x\text{V}_3\text{O}_8$ Submicron Fibers for Lithium-Ion Batteries. <i>Crystal Growth and Design</i> , 2018, 18, 2055-2066.	3.0	13
38	Morphology and reactivity of size-selected titanium oxide nanoclusters on Au(111). <i>Journal of Chemical Physics</i> , 2020, 152, 054714.	3.0	12
39	Oxidation of Cyclohexene Catalyzed by Nanoporous Au(Ag) in Liquid Phase. <i>Catalysis Letters</i> , 2017, 147, 442-452.	2.6	11
40	Impact of Charge Voltage on Factors Influencing Capacity Fade in Layered NMC622: Multimodal X-ray and Electrochemical Characterization. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50920-50935.	8.0	10
41	Phase transition and electronic structure evolution of $\text{MoTe}_2$ induced by W substitution. <i>Physical Review B</i> , 2018, 98, .	3.2	9
42	Design nanoporous metal thin films <i>via</i> solid state interfacial dealloying. <i>Nanoscale</i> , 2021, 13, 17725-17736.	5.6	9
43	Synthesis and Characterization of Ultrathin $\text{FeTe}_2$ Nanocrystals. <i>ACS Omega</i> , 2021, 6, 10537-10546.	3.5	9
44	Three-dimensional Ising ferrimagnetism of Cr-Fe-Cr trimers in $\text{FeCr}_2\text{Te}_4$ . <i>Physical Review B</i> , 2020, 102, .	3.2	8
45	Lanthanum-based double perovskite nanoscale motifs as support media for the methanol oxidation reaction. <i>Catalysis Science and Technology</i> , 2022, 12, 613-629.	4.1	8
46	Low-Oxidized Siloxene Nanosheets with High Capacity, Capacity Retention, and Rate Capability in Lithium-Based Batteries. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	8
47	Interfacial Reactivity of Silicon Electrodes: Impact of Electrolyte Solvent and Presence of Conductive Carbon. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20404-20417.	8.0	8
48	Water dissociation on $\text{MnO}(1\bar{1})/\text{Ag}(100)$ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25355-25363.	2.8	7
49	Unraveling the Formation Mechanism of a Hybrid Zr-Based Chemical Conversion Coating with Organic and Copper Compounds for Corrosion Inhibition. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5518-5528.	8.0	7
50	Surface structure of mass-selected niobium oxide nanoclusters on Au(111). <i>Nanotechnology</i> , 2021, 32, 475601.	2.6	7
51	Hybrid $\text{MoS}_2$ Nanosheet/Nanocarbon Heterostructures for Lithium-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2022, 5, 5103-5118.	5.0	7
52	Complete Strain Mapping of Nanosheets of Tantalum Disulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43173-43179.	8.0	6
53	Metal-Confined Synthesis of $\text{ZnS}_2$ Monolayer Catalysts for Dinitrogen Electroreduction. <i>ACS Catalysis</i> , 2022, 12, 6809-6815.	11.2	6
54	Revisiting heat treatment and surface activation of GaAs photocathodes: In situ studies using scanning tunneling microscopy and photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2020, 128, 045308.	2.5	5

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55	Electrical and thermal transport in van der Waals magnets $2\text{H}x\text{TaS}_2$ ( $M=\text{Mn}, \text{Co}$ ). Physical Review Research, 2022, 4, .	3.6	5
56	X-ray Assisted Scanning Tunneling Microscopy and Its Applications for Materials Science: The First Results on Cu Doped $\text{ZrTe}_3$ Crystals, 2019, 9, 588.	2.2	4
57	Thermal transport and mixed valence in $\text{ZrTe}_3$ doped with Hf and Se. Applied Physics Letters, 2022, 120, .	3.3	4
58	Atomistic mechanisms of the initial oxidation of stepped $\text{Cu}_m\text{Mn}_n$ . Physical Review B, 2022, 105, .	3.2	4
59	Transient Oxidation of $\text{Cu}_{5\text{at.}\%}\text{Ni}(001)$ : Temperature Dependent Sequential Oxide Formation. Oxidation of Metals, 2013, 79, 303-311.	2.1	3
60	Studying Catalytically Viable Single-Crystalline Metal Oxide Nanorods Using Synchrotron-Based Scanning Hard X-ray Microscopy. Journal of Physical Chemistry C, 2019, 123, 17185-17195.	3.1	3
61	Morphology of Palladium Thin Film Deposited on a Two-Dimensional Bilayer Aluminosilicate. Topics in Catalysis, 2019, 62, 1067-1075.	2.8	3
62	Suppression of thermal conductivity and electronic correlations in $\text{Fe}_1-x\text{Ru}_x\text{Sb}_2$ (0) $T_j$ $ETQq000$ $rgBT/Overlock$ $10Tf50$	3.3	3
63	Coupling between bulk thermal defects and surface segregation dynamics. Physical Review B, 2021, 104, .	3.2	3
64	Thin-film synthesis of superconductor-on-insulator $\text{A}_{15}$ vanadium silicide. Scientific Reports, 2021, 11, 2358.	3.3	3
65	Absence of long-range magnetic order in $\text{Fe}_1-x\text{Te}_x$ ( $x=0.784314$ ) $rgBT/Overlock$	3.3	3
66	Probing the Physicochemical Behavior of Various Doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoflowers. ACS Physical Chemistry Au, 2022, 2, 331-345.	4.0	2
67	Yttrium-based Double Perovskite Nanorods for Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 30914-30926.	8.0	2
68	Solar Cells: Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10% (Adv. Energy Mater. 21/2016). Advanced Energy Materials, 2016, 6, .	19.5	1
69	Characterization of Hazy Morphology on $\text{AlInP}/\text{GaAs}$ Epitaxial Wafers Grown by Organometallic Vapor-Phase Epitaxy. Journal of Electronic Materials, 2021, 50, 3006-3012.	2.2	1
70	Enhancing CO Oxidation Activity via Tuning a Charge Transfer Between Gold Nanoparticles and Supports. Journal of Physical Chemistry C, 2022, 126, 4836-4844.	3.1	1
71	Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces (Adv. Mater. 10/2016). Advanced Materials, 2016, 28, 1902-1902.	21.0	0