

Xiao Tong

List of Publications by Year in descending order

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papers

2,023
citations

257450

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72
all docs

72
docs citations

72
times ranked

3848
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal transport and mixed valence in ZrTe ₃ doped with Hf and Se. Applied Physics Letters, 2022, 120, .	3.3	4
2	Lanthanum-based double perovskite nanoscale motifs as support media for the methanol oxidation reaction. Catalysis Science and Technology, 2022, 12, 613-629.	4.1	8
3	Electrical and thermal transport in van der Waals magnets 2H [±] MxTaS ₂ (M=Mn, Co). Physical Review Research, 2022, 4, .	3.6	5
4	Atomistic mechanisms of the initial oxidation of stepped Cu ₂ Mn ₃ Sn. Physical Review B, 2022, 105, .	3.2	1
5	Low-Oxidized Siloxene Nanosheets with High Capacity, Capacity Retention, and Rate Capability in Lithium-Based Batteries. Advanced Materials Interfaces, 2022, 9, .	3.7	8
6	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
7	Interfacial Reactivity of Silicon Electrodes: Impact of Electrolyte Solvent and Presence of Conductive Carbon. ACS Applied Materials & Interfaces, 2022, 14, 20404-20417.	8.0	8
8	Hybrid MoS ₂ Nanosheet/Nanocarbon Heterostructures for Lithium-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 5103-5118.	5.0	7
9	Probing the Physicochemical Behavior of Various Doped Li ₄ Ti ₅ O ₁₂ Nanoflowers. ACS Physical Chemistry Au, 2022, 2, 331-345.	4.0	2
10	A single-atom library for guided monometallic and concentration-complex multimetallic designs. Nature Materials, 2022, 21, 681-688.	27.5	145
11	Metal-Confined Synthesis of ZnS ₂ Monolayer Catalysts for Dinitrogen Electroreduction. ACS Catalysis, 2022, 12, 6809-6815.	11.2	6
12	Yttrium-based Double Perovskite Nanorods for Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 30914-30926.	8.0	2
13	Nickel-rich Nickel Manganese Cobalt (NMC622) Cathode Lithiation Mechanism and Extended Cycling Effects Using Operando X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 58-73.	3.1	27
14	Unraveling the Formation Mechanism of a Hybrid Zr-Based Chemical Conversion Coating with Organic and Copper Compounds for Corrosion Inhibition. ACS Applied Materials & Interfaces, 2021, 13, 5518-5528.	8.0	7
15	Design nanoporous metal thin films via solid state interfacial dealloying. Nanoscale, 2021, 13, 17725-17736.	5.6	9
16	The impact of surface composition on the interfacial energetics and photoelectrochemical properties of BiVO ₄ . Nature Energy, 2021, 6, 287-294.	39.5	108
17	Characterization of Hazy Morphology on AlInP/GaAs Epitaxial Wafers Grown by Organometallic Vapor-Phase Epitaxy. Journal of Electronic Materials, 2021, 50, 3006-3012.	2.2	1
18	Understanding Methanol Synthesis on Inverse ZnO/CuO ₂ /Cu Catalysts: Stability of CH ₃ O Species and Dynamic Nature of the Surface. Journal of Physical Chemistry C, 2021, 125, 6673-6683.	3.1	21

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19	Synthesis and Characterization of Ultrathin FeTe ₂ Nanocrystals. ACS Omega, 2021, 6, 10537-10546.	3.5	9
20	Suppression of thermal conductivity and electronic correlations in Fe _{1-x} Ru _x Sb ₂ (0 ≤ x ≤ 1). Physical Review B, 2021, 104, 080401.	3.3	3
21	Microscopic relaxation channels in materials for superconducting qubits. Communications Materials, 2021, 2, .	6.9	31
22	Surface structure of mass-selected niobium oxide nanoclusters on Au(111). Nanotechnology, 2021, 32, 475601.	2.6	7
23	Coupling between bulk thermal defects and surface segregation dynamics. Physical Review B, 2021, 104, .	3.2	3
24	Thin-film synthesis of superconductor-on-insulator A15 vanadium silicide. Scientific Reports, 2021, 11, 2358.	3.3	3
25	Emergent flat band electronic structure in a VSe ₂ /Bi ₂ Se ₃ heterostructure. Communications Materials, 2021, 2, .	6.9	15
26	Impact of Charge Voltage on Factors Influencing Capacity Fade in Layered NMC622: Multimodal X-ray and Electrochemical Characterization. ACS Applied Materials & Interfaces, 2021, 13, 50920-50935.	8.0	10
27	Atomic Structure Evolution of Pt-Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. Advanced Materials, 2021, 33, e2106371.	21.0	62
28	Temperature Effect on Photoelectrochemical Water Splitting: A Model Study Based on BiVO ₄ Photoanodes. ACS Applied Materials & Interfaces, 2021, 13, 61227-61236.	8.0	21
29	Absence of long-range magnetic order in Fe _{1-x} Te ₂ (0 ≤ x ≤ 1). Physical Review B, 2020, 102, .	3.2	8
30	Multi-modal surface analysis of porous films under operando conditions. AIP Advances, 2020, 10, .	1.3	19
31	Revisiting heat treatment and surface activation of GaAs photocathodes: In situ studies using scanning tunneling microscopy and photoelectron spectroscopy. Journal of Applied Physics, 2020, 128, 045308.	2.5	5
32	Polydopamine Surface Coating Synergizes the Antimicrobial Activity of Silver Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 40067-40077.	8.0	79
33	Three-dimensional long-range ordering of CrFe ₂ Cu ₂ trimers in Fe _{1-x} Te ₂ (0 ≤ x ≤ 1). Physical Review B, 2020, 102, .	3.2	8
34	Reactivity of a Zirconia-Copper Inverse Catalyst for CO ₂ Hydrogenation. Journal of Physical Chemistry C, 2020, 124, 22158-22172.	3.1	37
35	Complete Strain Mapping of Nanosheets of Tantalum Disulfide. ACS Applied Materials & Interfaces, 2020, 12, 43173-43179.	8.0	6
36	Solution-Based, Anion-Doping of Li ₄ Ti ₅ O ₁₂ Nanoflowers for Lithium-Ion Battery Applications. Chemistry - A European Journal, 2020, 26, 9389-9402.	3.3	19

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37	Morphology and reactivity of size-selected titanium oxide nanoclusters on Au(111). <i>Journal of Chemical Physics</i> , 2020, 152, 054714.	3.0	12
38	Magnetic mixed valent semimetal EuZnSb with Dirac states in the band structure. <i>Physical Review Research</i> , 2020, 2, .	11.6	19
39	Studying Catalytically Viable Single-Crystalline Metal Oxide Nanorods Using Synchrotron-Based Scanning Hard X-ray Microscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17185-17195.	3.1	3
40	Synthesis, Characterization, and Stability Studies of Ge-Based Perovskites of Controllable Mixed Cation Composition, Produced with an Ambient Surfactant-Free Approach. <i>ACS Omega</i> , 2019, 4, 18219-18233.	3.5	33
41	Quinary Defect-Rich Ultrathin Bimetal Hydroxide Nanosheets for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44018-44025.	8.0	15
42	Morphology of Palladium Thin Film Deposited on a Two-Dimensional Bilayer Aluminosilicate. <i>Topics in Catalysis</i> , 2019, 62, 1067-1075.	2.8	3
43	Thickness-dependent magnetic order in CrI_3 single crystals. <i>Scientific Reports</i> , 2019, 9, 13599.	3.3	47
44	New aspects of improving the performance of WO_3 thin films for photoelectrochemical water splitting by tuning the ultrathin depletion region. <i>RSC Advances</i> , 2019, 9, 899-905.	3.6	14
45	Layer-Dependent Photoinduced Electron Transfer in 2D Lead Sulfide/Cadmium Sulfide Layered Molybdenum Disulfide Hybrids. <i>ACS Nano</i> , 2019, 13, 8461-8468.	14.6	39
46	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
47	Environmentally Friendly Zr-Based Conversion Nanocoatings for Corrosion Inhibition of Metal Surfaces Evaluated by Multimodal X-ray Analysis. <i>ACS Applied Nano Materials</i> , 2019, 2, 1920-1929.	5.0	20
48	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
49	X-ray Assisted Scanning Tunneling Microscopy and Its Applications for Materials Science: The First Results on Cu Doped ZrTe_3 . <i>Crystals</i> , 2019, 9, 588.	2.2	4
50	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
51	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
52	Phase transition and electronic structure evolution of MoTe_2 induced by W substitution. <i>Physical Review B</i> , 2018, 98, .	11.2	19
53	Oxidation of Cyclohexene Catalyzed by Nanoporous $\text{Au}(\text{Ag})$ in Liquid Phase. <i>Catalysis Letters</i> , 2017, 147, 442-452.	2.6	11
54	A New Design Strategy for Observing Lithium Oxide Growth-Evolution Interactions Using Geometric Catalyst Positioning. <i>Nano Letters</i> , 2016, 16, 4799-4806.	9.1	25

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55	Chemical Strategies for Enhancing Activity and Charge Transfer in Ultrathin Pt Nanowires Immobilized onto Nanotube Supports for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 34280-34294.	8.0	16
56	Role of Chemical Composition in the Enhanced Catalytic Activity of Pt-Based Alloyed Ultrathin Nanowires for the Hydrogen Oxidation Reaction under Alkaline Conditions. ACS Catalysis, 2016, 6, 3895-3908.	11.2	155
57	Pt and Pd catalyzed oxidation of Li ₂ O ₂ and DMSO during Li ⁺ O ₂ battery charging. Chemical Communications, 2016, 52, 6605-6608.	4.1	45
58	Quaternary Organic Solar Cells Enhanced by Cocrystalline Squaraines with Power Conversion Efficiencies >10%. Advanced Energy Materials, 2016, 6, 1600660.	19.5	46
59	Water dissociation on MnO(1 $\bar{1}$)/Ag(100). Physical Chemistry Chemical Physics, 2016, 18, 25355-25363.	2.8	7
60	Development of a New Generation of Stable, Tunable, and Catalytically Active Nanoparticles Produced by the Helium Nanodroplet Deposition Method. Journal of Physical Chemistry Letters, 2016, 7, 2910-2914.	4.6	21
61	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
62	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. Advanced Materials, 2016, 28, 1940-1949.	21.0	71
63	Heterogeneous WS ₂ /WO ₃ Thorn-Bush Nanofiber Electrodes for Sodium-Ion Batteries. ACS Nano, 2016, 10, 3257-3266.	14.6	121
64	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
65	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
66	The effect of chemical structure on the stability of physical vapor deposited glasses of 1,3,5-triarylbenzene. Journal of Chemical Physics, 2015, 143, 084506.	3.0	42
67	Sub-50-nm self-assembled nanotextures for enhanced broadband antireflection in silicon solar cells. Nature Communications, 2015, 6, 5963.	12.8	230
68	H ₂ O Dissociation-Induced Aluminum Oxide Growth on Oxidized Al(111) Surfaces. Langmuir, 2015, 31, 13117-13126.	3.5	17
69	Highly efficient solid state catalysis by reconstructed (001) Ceria surface. Scientific Reports, 2014, 4, 4627.	3.3	24
70	Transient Oxidation of Cu-5at.%Ni(001): Temperature Dependent Sequential Oxide Formation. Oxidation of Metals, 2013, 79, 303-311.	2.1	3
71	Mechanical Decoupling of Graphene from Ru(0001) by Interfacial Reaction with Oxygen. Journal of Physical Chemistry C, 2013, 117, 6320-6324.	3.1	41