Xun Cao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74	1,788	24	40
papers	citations	h-index	g-index
80	2,512 ext. citations	9.7	5.17
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
74	One-step fabrication of Cu2O-Cu catalytic electrodes with regular porous array by ultra-fast laser scanning. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163455	5.7	1
73	Correction to Multifunctional Flexible Vanadium Dioxide Films (Accounts of Materials Research, 2022 , 3, 403-403	7.5	
72	Phase engineering of Cr5Te8 with colossal anomalous Hall effect. <i>Nature Electronics</i> , 2022 , 5, 224-232	28.4	10
71	Highly flexible interconnected Li+ ion-sieve porous hydrogels with self-regulating nanonetwork structure for marine lithium recovery. <i>Chemical Engineering Journal</i> , 2022 , 445, 136780	14.7	О
70	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. <i>Advanced Materials</i> , 2021 , e2106212	24	5
69	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu2SnSe3. <i>Advanced Energy Materials</i> , 2021 , 11, 2100661	21.8	11
68	Conductivity Modulation of 3D-Printed Shellular Electrodes through Embedding Nanocrystalline Intermetallics into Amorphous Matrix for Ultrahigh-Current Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021 , 11, 2100968	21.8	2
67	Chemical Vapor Deposition of Superconducting FeTeSe Nanosheets. <i>Nano Letters</i> , 2021 , 21, 5338-5344	11.5	8
66	Decomposition behavior in the early-stage oxidation of Sm2Co17-type magnets. <i>Scripta Materialia</i> , 2021 , 200, 113911	5.6	2
65	Twinning enhanced electrical conductivity and surface activity of nanostructured CuCrO2 gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2021 , 338, 129845	8.5	2
64	The synergistic catalysis on Co nanoparticles and CoNx sites of aniline-modified ZIF derived Co@NCs for oxidative esterification of HMF. <i>Chinese Chemical Letters</i> , 2021 , 32, 685-690	8.1	23
63	Unraveling the effects of anions in NixAy@CC (A=O, S, P) on Li-sulfur batteries. <i>Materials Today Nano</i> , 2021 , 13, 100106	9.7	3
62	Flexible Au micro-array electrode with atomic-scale Au thin film for enhanced ethanol oxidation reaction. <i>Nano Research</i> , 2021 , 14, 311-319	10	O
61	Strained Ultralong Silver Nanowires for Enhanced Electrocatalytic Oxygen Reduction Reaction in Alkaline Medium. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2029-2035	6.4	5
60	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. <i>Nature Communications</i> , 2021 , 12, 973	17.4	75
59	High thermoelectric performance enabled by convergence of nested conduction bands in PbBiSe with low thermal conductivity. <i>Nature Communications</i> , 2021 , 12, 4793	17.4	15
58	Multifunctional Flexible Vanadium Dioxide Films. Accounts of Materials Research, 2021, 2, 714-725	7.5	2

(2020-2021)

57	Atomic-scale oxidation of a Sm2Co17-type magnet. Acta Materialia, 2021, 117343	8.4	О
56	Bioactive CaTiO3 film prepared on the biomedical porous Till5Mo alloy by one-step hydrothermal treatment. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 202-209	5.5	1
55	A three-dimensional porous MoS2PVP aerogel as a highly efficient and recyclable sorbent for oils and organic solvents. <i>Materials Advances</i> , 2020 , 1, 760-766	3.3	4
54	Confining Tiny MoO Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. <i>Small</i> , 2020 , 16, e2001686	11	43
53	Molecular-scale cage-confinement pyrolysis route to size-controlled molybdenum carbide nanoparticles for electrochemical sensor. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112373	11.8	8
52	Growth of Lattice Coherent Co9S8/Co3O4 Nano-Heterostructure for Maximizing the Catalysis of Co-Based Composites. <i>ChemCatChem</i> , 2020 , 12, 2431-2435	5.2	8
51	Challenges and Opportunities toward Real Application of VO2-Based Smart Glazing. <i>Matter</i> , 2020 , 2, 862-881	12.7	34
50	Highly Strained Au Nanoparticles for Improved Electrocatalysis of Ethanol Oxidation Reaction. Journal of Physical Chemistry Letters, 2020 , 11, 3005-3013	6.4	7
49	Dual-Nitrogen-Doped Carbon Decorated on Na3V2(PO4)3 to Stabilize the Intercalation of Three Sodium Ions. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6870-6879	6.1	8
48	Janus-like particles prepared through partial UV irradiation at the water/oil interface and their encapsulation capabilities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 589, 124460	5.1	6
47	Exploring the impact of atomic lattice deformation on oxygen evolution reactions based on a sub-5 nm pure face-centred cubic high-entropy alloy electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11938-11947	13	42
46	Oxygen vacancy mediated bismuth stannate ultra-small nanoparticle towards photocatalytic CO2-to-CO conversion. <i>Applied Catalysis B: Environmental</i> , 2020 , 276, 119156	21.8	30
45	Metal-organic framework derived CoSe@Nitrogen-doped porous carbon as a high-performance anode material for lithium ion batteries. <i>Nanotechnology</i> , 2020 , 31, 215602	3.4	5
44	Development of polyoxometalate-anchored 3D hybrid hydrogel for high-performance flexible pseudo-solid-state supercapacitor. <i>Electrochimica Acta</i> , 2020 , 329, 135181	6.7	18
43	Porous cobalt@N-doped carbon derived from chitosan for oxidative esterification of 5-Hydroxymethylfurfural: The roles of zinc in the synthetic and catalytic process. <i>Molecular Catalysis</i> , 2020 , 482, 110695	3.3	11
42	Tunable low-dimensional self-assembly of H-shaped bichromophoric perylenediimide Gemini in solution. <i>Nanoscale</i> , 2020 , 12, 3058-3067	7.7	6
41	Spatially Resolved Dynamically Reconfigurable Multilevel Control of Thermal Emission. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900162	8.3	59
40	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020 , 11, 3729	17.4	57

39	Microwave Absorption: Confining Tiny MoO2 Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption (Small 30/2020). <i>Small</i> , 2020 , 16, 2070168	11	9
38	Innovative development on a p-type delafossite CuCrO2 nanoparticles based triethylamine sensor. <i>Sensors and Actuators B: Chemical</i> , 2020 , 324, 128743	8.5	11
37	Confinement of single polyoxometalate clusters in molecular-scale cages for improved flexible solid-state supercapacitors. <i>Nanoscale</i> , 2020 , 12, 11887-11898	7.7	11
36	Catalysis of Au nano-pyramids formed across the surfaces of ordered Au nano-ring arrays. <i>Journal of Catalysis</i> , 2019 , 377, 389-399	7-3	4
35	The Self-Passivation Mechanism in Degradation of BiVO Photoanode. <i>IScience</i> , 2019 , 19, 976-985	6.1	27
34	Highly Enhanced Thermochromic Performance of VO Film Using "Movable" Antireflective Coatings. <i>ACS Applied Materials & Discrete Section</i> , 11, 4712-4718	9.5	17
33	Highly anisotropic thermoelectric properties of black phosphorus crystals. 2D Materials, 2019, 6, 04500	95.9	17
32	Self-Template Synthesis of Nanoporous VO-Based Films: Localized Surface Plasmon Resonance and Enhanced Optical Performance for Solar Glazing Application. <i>ACS Applied Materials & Company State State</i>	9.5	30
31	Bifunctional copper cathode induced oxidation of glycerol with liquid plasma discharge. <i>Separation and Purification Technology</i> , 2019 , 220, 328-333	8.3	3
30	Superior Li-ion storage of VS nanowires anchored on reduced graphene. <i>Nanoscale</i> , 2019 , 11, 9556-956.	2 7.7	21
29	Transmittance change with thickness for polycrystalline VO2 films deposited at room temperature. Journal of Alloys and Compounds, 2019 , 791, 648-654	5.7	9
28	Mitigating Deterioration of Vanadium Dioxide Thermochromic Films by Interfacial Encapsulation. <i>Matter</i> , 2019 , 1, 734-744	12.7	34
27	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , 2019 , 10, 3037	17.4	71
26	Electrons-Donating Derived Dual-Resistant Crust of VO Nano-Particles via Ascorbic Acid Treatment for Highly Stable Smart Windows Applications. <i>ACS Applied Materials & District Resistant</i> , 11, 41229-	49: 5 37	10
25	Nanostructured Metal-Organic Conjugated Coordination Polymers with Ligand Tailoring for Superior Rechargeable Energy Storage. <i>Small</i> , 2019 , 15, e1903188	11	40
24	How to properly evaluate and compare the thermochromic performance of VO2-based smart coatings. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24164-24172	13	13
23	Ordered distributed nickel sulfide nanoparticles across graphite nanosheets for efficient oxygen evolution reaction electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1544-1554	6.7	16
22	Facile synthesis of hydrated magnesium vanadium bronze EMg0.25V2O5IH2O as a novel cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 931-938	5.7	2

(2015-2019)

21	Self-assembled Cu-Ni bimetal oxide 3D in-plane epitaxial structures for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 56-62	21.8	41	
20	Rational design of intertwined carbon nanotubes threaded porous CoP@carbon nanocubes as anode with superior lithium storage. <i>Carbon</i> , 2019 , 142, 269-277	10.4	38	
19	Extraordinary catalysis induced by titanium foil cathode plasma for degradation of water pollutant. <i>Chemosphere</i> , 2019 , 214, 341-348	8.4	12	
18	Application-oriented VO2 thermochromic coatings with composite structures: Optimized optical performance and robust fatigue properties. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 189, 138-148	6.4	36	
17	Co-synthesis of CuO-ZnO nanoflowers by low voltage liquid plasma discharge with brass electrode. Journal of Alloys and Compounds, 2019 , 773, 762-769	5.7	13	
16	A plasmonic non-stoichiometric WO homojunction with stabilizing surface plasmonic resonance for selective photochromic modulation. <i>Chemical Communications</i> , 2018 , 54, 5241-5244	5.8	21	
15	Effects of V2O3 buffer layers on sputtered VO2 smart windows: Improved thermochromic properties, tunable width of hysteresis loops and enhanced durability. <i>Applied Surface Science</i> , 2018 , 441, 764-772	6.7	38	
14	Recent advances in VO2-based thermochromic composites for smart windows. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1903-1919	7.1	92	
13	Review on thermochromic vanadium dioxide based smart coatings: from lab to commercial application. <i>Advances in Manufacturing</i> , 2018 , 6, 1-19	2.7	69	
12	Broadband thermochromic VO 2 -based composite film with ultra-high solar modulation ability. <i>Materials Letters</i> , 2018 , 222, 62-65	3.3	16	
11	Nanostructured CuO/C Hollow Shell@3D Copper Dendrites as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Materials & Description Reaction (No. 23807-23812)</i>	9.5	40	
10	Ultrafine Metal Nanoparticles/N-Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binder-Free Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700220	21.8	126	
9	The Electrochemical Response of Single Crystalline Copper Nanowires to Atmospheric Air and Aqueous Solution. <i>Small</i> , 2017 , 13, 1603411	11	15	
8	Facile and Low-Temperature Fabrication of Thermochromic CrO/VO Smart Coatings: Enhanced Solar Modulation Ability, High Luminous Transmittance and UV-Shielding Function. <i>ACS Applied Materials & Discours (Materials & Discours)</i> , 9, 26029-26037	9.5	82	
7	Epitaxial Bi9Ti3Fe5O27 thin films: a new type of layer-structure room-temperature multiferroic. Journal of Materials Chemistry C, 2017 , 5, 7720-7725	7.1	3	
6	High Performance and Enhanced Durability of Thermochromic Films Using VO@ZnO Core-Shell Nanoparticles. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 27784-27791	9.5	71	
5	Terbium-Doped VO2 Thin Films: Reduced Phase Transition Temperature and Largely Enhanced Luminous Transmittance. <i>Langmuir</i> , 2016 , 32, 759-64	4	83	
4	Solution-based fabrication of VO2 (M) nanoparticles via lyophilisation. <i>RSC Advances</i> , 2015 , 5, 25669-25	6 3 . 5	21	

3	Nanoporous thermochromic VOI(M) thin films: controlled porosity, largely enhanced luminous transmittance and solar modulating ability. <i>Langmuir</i> , 2014 , 30, 1710-5	4	101
2	Atomically Dispersed Intrinsic Hollow Sites of M - M 1 - M (M 1	15.6	2
1	Design of Hierarchical Oxide-Carbon Nanostructures for Trifunctional Electrocatalytic Applications. Advanced Materials Interfaces. 2200071	4.6	О