

# Xi Wang

## List of Publications by Year in descending order

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28  
papers

1,572  
citations

430442

18  
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500791

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g-index

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28  
docs citations

28  
times ranked

2172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Catalytic Oxidation of Cyclopentene to Glutaraldehyde over Amorphous Nb <sub>2</sub> O <sub>5</sub> /AC Catalysts. ChemistrySelect, 2022, 7, .	0.7	1
2	Engineering O <sup>•</sup> O Species in Boron Nitrous Nanotubes Increases Olefins for Propane Oxidative Dehydrogenation. Journal of the American Chemical Society, 2022, 144, 5930-5936.	6.6	21
3	Understanding and Modifying the Scaling Relations for Ammonia Synthesis on Dilute Metal Alloys: From Single-Atom Alloys to Dimer Alloys. ACS Catalysis, 2022, 12, 9201-9212.	5.5	18
4	Precise fabrication of single-atom alloy co-catalyst with optimal charge state for enhanced photocatalysis. National Science Review, 2021, 8, nwaa224.	4.6	125
5	Tailoring the d-band center of N-doped carbon nanotube arrays with Co <sub>4</sub> N nanoparticles and single-atom Co for a superior hydrogen evolution reaction. NPG Asia Materials, 2021, 13, .	3.8	95
6	Engineering Electronic Structure of Single-Atom Pd Site on Ti <sub>0.87</sub> O <sub>2</sub> Nanosheet via Charge Transfer Enables C-Br Cleavage for Room-Temperature Suzuki Coupling. CCS Chemistry, 2021, 3, 1453-1462.	4.6	12
7	Modulating 3d Orbitals of Ni Atoms on Ni-Pt Edge Sites Enables Highly Efficient Alkaline Hydrogen Evolution. Advanced Energy Materials, 2021, 11, 2101789.	10.2	30
8	Breaking the Stable Triangle of Carbonate via W-O Bonds for Li-CO <sub>2</sub> Batteries with Low Polarization. ACS Energy Letters, 2021, 6, 3503-3510.	8.8	26
9	Electrostatic Attraction-Driven Assembly of a Metal-Organic Framework with a Photosensitizer Boosts Photocatalytic CO <sub>2</sub> Reduction to CO. Journal of the American Chemical Society, 2021, 143, 17424-17430.	6.6	127
10	sp <sup>2</sup> /sp <sup>3</sup> Hybridized Carbon as an Anode with Extra Li-Ion Storage Capacity: Construction and Origin. ACS Central Science, 2020, 6, 1451-1459.	5.3	22
11	Recent Advances in Atomic-scale Storage Mechanism Studies of Two-dimensional Nanomaterials for Rechargeable Batteries Beyond Li-ion. Chemical Research in Chinese Universities, 2020, 36, 560-583.	1.3	14
12	Effective Strategy to Achieve Excellent Energy Storage Properties in Lead-Free BaTiO <sub>3</sub> -Based Bulk Ceramics. ACS Applied Materials & Interfaces, 2020, 12, 30289-30296.	4.0	191
13	Manganese Doping in Cobalt Oxide Nanorods Promotes Catalytic Dehydrogenation. ACS Sustainable Chemistry and Engineering, 2020, 8, 5734-5741.	3.2	19
14	Hierarchical Ni/Co-LDHs catalyst for catalytic oxidation of indoor formaldehyde at ambient temperature. Journal of Materials Science: Materials in Electronics, 2020, 31, 3500-3509.	1.1	13
15	Regulating Charge Transfer of Lattice Oxygen in Single-Atom-Doped Titania for Hydrogen Evolution. Angewandte Chemie - International Edition, 2020, 59, 15855-15859.	7.2	44
16	Regulating Charge Transfer of Lattice Oxygen in Single-Atom-Doped Titania for Hydrogen Evolution. Angewandte Chemie, 2020, 132, 15989-15993.	1.6	10
17	High Safety and High Energy Density Lithium Metal Batteries in a Novel Ionic Liquid Electrolyte. Advanced Materials, 2020, 32, e2001741.	11.1	176
18	Lead-free thermochromic perovskites with tunable transition temperatures for smart window applications. Science China Chemistry, 2019, 62, 1257-1262.	4.2	39

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19	Efficient Solvent-Free Synthesis of Sucrose Esters <i>via</i> Sand-Milling Pretreatment on Solid-Liquid Mixtures. <i>Journal of Surfactants and Detergents</i> , 2019, 22, 1515-1520.	1.0	9
20	MOF-derived metal oxide composite Mn <sub>2</sub> Co <sub>1</sub> O <sub>x</sub> /CN for efficient formaldehyde oxidation at low temperature. <i>Catalysis Science and Technology</i> , 2019, 9, 5845-5854.	2.1	32
21	Selective catalytic oxidation of sulfides to sulfoxides or sulfones over amorphous Nb <sub>2</sub> O <sub>5</sub> /AC catalysts in aqueous phase at room temperature. <i>Catalysis Communications</i> , 2019, 127, 10-14.	1.6	16
22	Material and Device Architecture Engineering Toward High Performance Two-Dimensional (2D) Photodetectors. <i>Crystals</i> , 2017, 7, 149.	1.0	21
23	Chemoselective hydrogenation of functionalized nitroarenes using MOF-derived co-based catalysts. <i>Journal of Molecular Catalysis A</i> , 2016, 420, 56-65.	4.8	85
24	Nanoporous carbons derived from MOFs as metal-free catalysts for selective aerobic oxidations. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5247-5257.	5.2	86
25	Seed-mediated growth of MOF-encapsulated Pd@Ag core-shell nanoparticles: toward advanced room temperature nanocatalysts. <i>Chemical Science</i> , 2016, 7, 228-233.	3.7	128
26	Controlled growth of dense and ordered metal-organic framework nanoparticles on graphene oxide. <i>Chemical Communications</i> , 2015, 51, 3874-3877.	2.2	75
27	Nanoscale Co-based catalysts for low-temperature CO oxidation. <i>Catalysis Science and Technology</i> , 2015, 5, 1014-1020.	2.1	64
28	A microporous, moisture-stable, and amine-functionalized metal-organic framework for highly selective separation of CO <sub>2</sub> from CH <sub>4</sub> . <i>Chemical Communications</i> , 2012, 48, 1135-1137.	2.2	73