

# Yuanmiao Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

4,138  
citations

186265

28  
h-index

395702

33  
g-index

33  
all docs

33  
docs citations

33  
times ranked

4061  
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. <i>Nature Catalysis</i> , 2020, 3, 554-563.	34.4	284
2	Exceptionally active iridium evolved from a pseudo-cubic perovskite for oxygen evolution in acid. <i>Nature Communications</i> , 2019, 10, 572.	12.8	254
3	Spin-polarized oxygen evolution reaction under magnetic field. <i>Nature Communications</i> , 2021, 12, 2608.	12.8	242
4	Spin-Related Electron Transfer and Orbital Interactions in Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020, 32, e2003297.	21.0	240
5	Surface Composition Dependent Ligand Effect in Tuning the Activity of Nickel-Copper Bimetallic Electrocatalysts toward Hydrogen Evolution in Alkaline. <i>Journal of the American Chemical Society</i> , 2020, 142, 7765-7775.	13.7	234
6	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn <sub>2</sub> In <sub>2</sub> S <sub>5</sub> /Ti <sub>3</sub> C <sub>2</sub> (O, OH) <sub>x</sub> hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 290-301.	20.2	229
7	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6042-6047.	13.8	226
8	Photogenerated charge transfer via interfacial internal electric field for significantly improved photocatalysis in direct Z-scheme oxygen-doped carbon nitrogen/CoAl-layered double hydroxide heterojunction. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 530-540.	20.2	219
9	Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. <i>Advanced Materials</i> , 2019, 31, e1807898.	21.0	215
10	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. <i>Advanced Materials</i> , 2019, 31, e1902509.	21.0	201
11	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. <i>Nature Communications</i> , 2021, 12, 3634.	12.8	186
12	Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. <i>Nano Energy</i> , 2018, 52, 307-314.	16.0	176
13	Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 2750-2756.	17.4	154
14	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14536-14544.	13.8	149
15	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7418-7425.	13.8	130
16	Constructing an Adaptive Heterojunction as a Highly Active Catalyst for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e2001292.	21.0	122
17	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9418-9422.	13.8	108
18	Antiferromagnetic Inverse Spinel Oxide LiCoVO <sub>4</sub> with Spin-Polarized Channels for Water Oxidation. <i>Advanced Materials</i> , 2020, 32, e1907976.	21.0	106

#	ARTICLE	IF	CITATIONS
19	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. Nano Energy, 2018, 50, 273-280.	16.0	89
20	Switch of the Rate-Determining Step of Water Oxidation by Spin-Selected Electron Transfer in Spinel Oxides. Chemistry of Materials, 2019, 31, 8106-8111.	6.7	87
21	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. Angewandte Chemie, 2019, 131, 6103-6108.	2.0	69
22	Identifying Influential Parameters of Octahedrally Coordinated Cations in Spinel ZnMn <sub>x</sub> Co <sub>2-x</sub> O <sub>4</sub> Oxides for the Oxidation Reaction. ACS Catalysis, 2018, 8, 8568-8577.	11.2	68
23	Ultrannarrow Graphene Nanoribbons toward Oxygen Reduction and Evolution Reactions. Advanced Science, 2018, 5, 1801375.	11.2	59
24	Degree of Geometric Tilting Determines the Activity of FeO <sub>6</sub> Octahedra for Water Oxidation. Chemistry of Materials, 2018, 30, 4313-4320.	6.7	54
25	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. Science Advances, 2021, 7, eabk1788.	10.3	41
26	Catalytically Influential Features in Transition Metal Oxides. ACS Catalysis, 2021, 11, 13947-13954.	11.2	38
27	Origin of electronic structure dependent activity of spinel ZnNi <sub>x</sub> Co <sub>2-x</sub> O <sub>4</sub> oxides for complete methane oxidation. Applied Catalysis B: Environmental, 2019, 256, 117844.	20.2	35
28	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. Angewandte Chemie, 2020, 132, 9504-9508.	2.0	31
29	A discussion on the possible involvement of singlet oxygen in oxygen electrocatalysis. JPhys Energy, 2021, 3, 031004.	5.3	31
30	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. Angewandte Chemie, 2021, 133, 14657-14665.	2.0	24
31	Facile synthesis of palladium incorporated NiCo <sub>2</sub> O <sub>4</sub> spinel for low temperature methane combustion: Activate lattice oxygen to promote activity. Journal of Catalysis, 2021, 404, 400-410.	6.2	23
32	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. Angewandte Chemie, 2021, 133, 7494-7501.	2.0	8