

Yuanmiao Sun

List of Publications by Citations

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32
papers

1,938
citations

24
h-index

33
g-index

33
ext. papers

2,951
ext. citations

15.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
32	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn ₂ In ₂ S ₅ /Ti ₃ C ₂ (O, OH) _x hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 290-301	21.8	155
31	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	21.8	152
30	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	16.4	142
29	Exceptionally active iridium evolved from a pseudo-cubic perovskite for oxygen evolution in acid. <i>Nature Communications</i> , 2019 , 10, 572	17.4	142
28	Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. <i>Advanced Materials</i> , 2019 , 31, e1807898	24	126
27	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. <i>Advanced Materials</i> , 2019 , 31, e1902509	24	115
26	Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. <i>Nano Energy</i> , 2018 , 52, 307-314	17.1	114
25	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. <i>Nature Catalysis</i> , 2020 , 3, 554-563	36.5	110
24	Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018 , 3, 2750-2756	20.1	103
23	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	16.4	99
22	Spin-Related Electron Transfer and Orbital Interactions in Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2003297	24	69
21	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. <i>Nano Energy</i> , 2018 , 50, 273-280	17.1	64
20	Constructing an Adaptive Heterojunction as a Highly Active Catalyst for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e2001292	24	56
19	Spin-polarized oxygen evolution reaction under magnetic field. <i>Nature Communications</i> , 2021 , 12, 2608	17.4	52
18	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. <i>Angewandte Chemie</i> , 2019 , 131, 6103-6108	3.6	46
17	Antiferromagnetic Inverse Spinel Oxide LiCoVO with Spin-Polarized Channels for Water Oxidation. <i>Advanced Materials</i> , 2020 , 32, e1907976	24	44
16	Switch of the Rate-Determining Step of Water Oxidation by Spin-Selected Electron Transfer in Spinel Oxides. <i>Chemistry of Materials</i> , 2019 , 31, 8106-8111	9.6	41

15	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9418-9422	16.4	41
14	Ultrannarrow Graphene Nanoribbons toward Oxygen Reduction and Evolution Reactions. <i>Advanced Science</i> , 2018 , 5, 1801375	13.6	41
13	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7418-7425	16.4	38
12	Degree of Geometric Tilting Determines the Activity of FeO ₆ Octahedra for Water Oxidation. <i>Chemistry of Materials</i> , 2018 , 30, 4313-4320	9.6	37
11	Identifying Influential Parameters of Octahedrally Coordinated Cations in Spinel ZnMnxCo _{2-x} O ₄ Oxides for the Oxidation Reaction. <i>ACS Catalysis</i> , 2018 , 8, 8568-8577	13.1	35
10	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. <i>Nature Communications</i> , 2021 , 12, 3634	17.4	31
9	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	16.4	27
8	Origin of electronic structure dependent activity of spinel ZnNixCo _{2-x} O ₄ oxides for complete methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117844	21.8	19
7	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. <i>Angewandte Chemie</i> , 2020 , 132, 9504-9508	3.6	13
6	A discussion on the possible involvement of singlet oxygen in oxygen electrocatalysis. <i>JPhys Energy</i> , 2021 , 3, 031004	4.9	8
5	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. <i>Science Advances</i> , 2021 , 7, eabk1788	14.3	6
4	Catalytically Influential Features in Transition Metal Oxides. <i>ACS Catalysis</i> , 13947-13954	13.1	4
3	Facile synthesis of palladium incorporated NiCo ₂ O ₄ spinel for low temperature methane combustion: Activate lattice oxygen to promote activity. <i>Journal of Catalysis</i> , 2021 ,	7.3	3
2	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</i> , 2021 , 133, 14657-14665	3.6	2
1	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie</i> , 2021 , 133, 7494-7501	3.6	2