

Sunghak Park

List of Publications by Year in descending order

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28
papers

2,112
citations

430874

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501196

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docs citations

29
times ranked

3515
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible and cooperative photoactivation of single-atom Cu/TiO ₂ photocatalysts. <i>Nature Materials</i> , 2019, 18, 620-626.	27.5	501
2	Photocatalytic hydrogen generation from hydriodic acid using methylammonium lead iodide in dynamic equilibrium with aqueous solution. <i>Nature Energy</i> , 2017, 2, .	39.5	438
3	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016, 28, 6562-6567.	21.0	285
4	Tyrosine-mediated two-dimensional peptide assembly and its role as a bio-inspired catalytic scaffold. <i>Nature Communications</i> , 2014, 5, 3665.	12.8	98
5	Mechanistic Investigation of Biomass Oxidation Using Nickel Oxide Nanoparticles in a CO ₂ -Saturated Electrolyte for Paired Electrolysis. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2941-2948.	4.6	88
6	Electronic interaction between transition metal single-atoms and anatase TiO ₂ boosts CO ₂ photoreduction with H ₂ O. <i>Energy and Environmental Science</i> , 2022, 15, 601-609.	30.8	88
7	Chemically Deposited Amorphous Zn-Doped NiFeO _x /H ₂ O ₂ for Enhanced Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 235-244.	11.2	86
8	Manganese oxide-based heterogeneous electrocatalysts for water oxidation. <i>Energy and Environmental Science</i> , 2020, 13, 2310-2340.	30.8	81
9	Revealing Structural Disorder in Hydrogenated Amorphous Silicon for a Low-loss Photonic Platform at Visible Frequencies. <i>Advanced Materials</i> , 2021, 33, e2005893.	21.0	69
10	Uniform, Assembled 4 nm Mn ₃ O ₄ Nanoparticles as Efficient Water Oxidation Electrocatalysts at Neutral pH. <i>Advanced Functional Materials</i> , 2020, 30, 1910424.	14.9	55
11	Highly Selective Active Chlorine Generation Electrocatalyzed by Co ₃ O ₄ Nanoparticles: Mechanistic Investigation through in Situ Electrokinetic and Spectroscopic Analyses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1226-1233.	4.6	44
12	Capturing Manganese Oxide Intermediates in Electrochemical Water Oxidation at Neutral pH by In Situ Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4673-4681.	13.8	41
13	Nickel-Doping Effect on Mn ₃ O ₄ Nanoparticles for Electrochemical Water Oxidation under Neutral Condition. <i>Small Methods</i> , 2020, 4, 1900733.	8.6	36
14	Importance of Entropic Contribution to Electrochemical Water Oxidation Catalysis. <i>ACS Energy Letters</i> , 2019, 4, 1918-1929.	17.4	31
15	Mechanistic Investigation with Kinetic Parameters on Water Oxidation Catalyzed by Manganese Oxide Nanoparticle Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10595-10604.	6.7	28
16	Water Oxidation Mechanism for 3d Transition Metal Oxide Catalysts under Neutral Condition. <i>Journal of the Korean Ceramic Society</i> , 2017, 54, 1-8.	2.3	24
17	Importance of Interfacial Band Structure between the Substrate and Mn ₃ O ₄ Nanocatalysts during Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 1237-1245.	11.2	23
18	Spectroscopic capture of a low-spin Mn(IV)-oxo species in Ni ²⁺ /Mn ₃ O ₄ nanoparticles during water oxidation catalysis. <i>Nature Communications</i> , 2020, 11, 5230.	12.8	21

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19	Metal Halide Perovskites for Solar Fuel Production and Photoreactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8292-8301.	4.6	17
20	Biofunctionalized Ceramic with Self-Assembled Networks of Nanochannels. <i>ACS Nano</i> , 2015, 9, 4447-4457.	14.6	15
21	Methylamine Treated Mn ₃ O ₄ Nanoparticles as a Highly Efficient Water Oxidation Catalyst under Neutral Condition. <i>ChemCatChem</i> , 2019, 11, 1665-1672.	3.7	14
22	High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of I κ -Synuclein for Nanoapplications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8519-8532.	8.0	8
23	A scalable Al-Ni alloy powder catalyst prepared by metallurgical microstructure control. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11133-11140.	10.3	6
24	Capturing Manganese Oxide Intermediates in Electrochemical Water Oxidation at Neutral pH by In Situ Raman Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 4723-4731.	2.0	5
25	Complex Impedance Analysis on Charge Accumulation Step of Mn ₃ O ₄ Nanoparticles during Water Oxidation. <i>ACS Omega</i> , 2021, 6, 18404-18413.	3.5	5
26	Probing the Structure and Binding Mode of EDTA on the Surface of Mn ₃ O ₄ Nanoparticles for Water Oxidation by Advanced Electron Paramagnetic Resonance Spectroscopy. <i>Inorganic Chemistry</i> , 2020, 59, 8846-8854.	4.0	2
27	Electrochemical cell in the brain. <i>Nature Nanotechnology</i> , 2020, 15, 625-626.	31.5	2
28	Engineered Dissolution for Better Electrocatalysts. <i>CheM</i> , 2021, 7, 20-22.	11.7	0