Sunghak Park

List of Publications by Year
in descending order

28 papers	2,112 citations	430874 18 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	3515 citing authors

#	Article	IF	Citations
1	Electronic interaction between transition metal single-atoms and anatase TiO₂ boosts CO₂ photoreduction with H₂O. Energy and Environmental Science, 2022, 15, 601-609.	30.8	88
2	Capturing Manganese Oxide Intermediates in Electrochemical Water Oxidation at Neutral pH by In Situ Raman Spectroscopy. Angewandte Chemie, 2021, 133, 4723-4731.	2.0	5
3	Capturing Manganese Oxide Intermediates in Electrochemical Water Oxidation at Neutral pH by In Situ Raman Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 4673-4681.	13.8	41
4	Engineered Dissolution for Better Electrocatalysts. CheM, 2021, 7, 20-22.	11.7	0
5	Revealing Structural Disorder in Hydrogenated Amorphous Silicon for a Lowâ€Loss Photonic Platform at Visible Frequencies. Advanced Materials, 2021, 33, e2005893.	21.0	69
6	Complex Impedance Analysis on Charge Accumulation Step of Mn₃O₄ Nanoparticles during Water Oxidation. ACS Omega, 2021, 6, 18404-18413.	3.5	5
7	Metal Halide Perovskites for Solar Fuel Production and Photoreactions. Journal of Physical Chemistry Letters, 2021, 12, 8292-8301.	4.6	17
8	Importance of Interfacial Band Structure between the Substrate and Mn₃O₄ Nanocatalysts during Electrochemical Water Oxidation. ACS Catalysis, 2020, 10, 1237-1245.	11.2	23
9	Chemically Deposited Amorphous Zn-Doped NiFeO_xH_y for Enhanced Water Oxidation. ACS Catalysis, 2020, 10, 235-244.	11.2	86
10	Spectroscopic capture of a low-spin Mn(IV)-oxo species in Niâ€“Mn3O4 nanoparticles during water oxidation catalysis. Nature Communications, 2020, 11, 5230.	12.8	21
11	A scalable Alâ€“Ni alloy powder catalyst prepared by metallurgical microstructure control. Journal of Materials Chemistry A, 2020, 8, 11133-11140.	10.3	6
12	Manganese oxide-based heterogeneous electrocatalysts for water oxidation. Energy and Environmental Science, 2020, 13, 2310-2340.	30.8	81
13	Probing the Structure and Binding Mode of EDTA on the Surface of Mn₃O₄ Nanoparticles for Water Oxidation by Advanced Electron Paramagnetic Resonance Spectroscopy. Inorganic Chemistry, 2020, 59, 8846-8854.	4.0	2
14	Electrochemical cell in the brain. Nature Nanotechnology, 2020, 15, 625-626.	31.5	2
15	Nickelâ€Doping Effect on Mn₃O₄ Nanoparticles for Electrochemical Water Oxidation under Neutral Condition. Small Methods, 2020, 4, 1900733.	8.6	36
16	Uniform, Assembled 4 nm Mn₃O₄ Nanoparticles as Efficient Water Oxidation Electrocatalysts at Neutral pH. Advanced Functional Materials, 2020, 30, 1910424.	14.9	55
17	Mechanistic Investigation of Biomass Oxidation Using Nickel Oxide Nanoparticles in a CO₂-Saturated Electrolyte for Paired Electrolysis. Journal of Physical Chemistry Letters, 2020, 11, 2941-2948.	4.6	88
18	Importance of Entropic Contribution to Electrochemical Water Oxidation Catalysis. ACS Energy Letters, 2019, 4, 1918-1929.	17.4	31

#	Article	IF	Citations
19	Methylamine Treated Mn3O4Nanoparticles as a Highly Efficient Water Oxidation Catalyst under Neutral Condition. ChemCatChem, 2019, 11, 1665-1672.	3.7	14
20	Mechanistic Investigation with Kinetic Parameters on Water Oxidation Catalyzed by Manganese Oxide Nanoparticle Film. ACS Sustainable Chemistry and Engineering, 2019, 7, 10595-10604.	6.7	28
21	Reversible and cooperative photoactivation of single-atom Cu/TiO2 photocatalysts. Nature Materials, 2019, 18, 620-626.	27.5	501
22	Highly Selective Active Chlorine Generation Electrocatalyzed by Co₃O₄ Nanoparticles: Mechanistic Investigation through in Situ Electrokinetic and Spectroscopic Analyses. Journal of Physical Chemistry Letters, 2019, 10, 1226-1233.	4.6	44
23	High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of Iİ±-Synuclein for Nanoapplications. ACS Applied Materials & Interfaces, 2017, 9, 8519-8532.	8.0	8
24	Photocatalytic hydrogen generation from hydriodic acid using methylammonium lead iodide in dynamic equilibrium with aqueous solution. Nature Energy, 2017, 2, .	39.5	438
25	Water Oxidation Mechanism for 3d Transition Metal Oxide Catalysts under Neutral Condition. Journal of the Korean Ceramic Society, 2017, 54, 1-8.	2.3	24
26	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. Advanced Materials, 2016, 28, 6562-6567.	21.0	285
27	Biofunctionalized Ceramic with Self-Assembled Networks of Nanochannels. ACS Nano, 2015, 9, 4447-4457.	14.6	15
28	Tyrosine-mediated two-dimensional peptide assembly and its role as a bio-inspired catalytic scaffold. Nature Communications, 2014, 5, 3665.	12.8	98