Sol A Lee

List of Publications by Year
in descending order

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34 papers	1,114 citations	361413 20 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	1256 citing authors

#	Article	IF	Citations
1	Hydrothermally obtained type-â…¡ heterojunction nanostructures of In2S3 / TiO2 for remarkably enhanced photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2021, 295, 120276.	20.2	89
2	Tailored NiO_x/Ni Cocatalysts on Silicon for Highly Efficient Water Splitting Photoanodes via Pulsed Electrodeposition. ACS Catalysis, 2018, 8, 7261-7269.	11.2	85
3	Dualâ€Phase Allâ€Inorganic Cesium Halide Perovskites for Conductingâ€Bridge Memoryâ€Based Artificial Synapses. Advanced Functional Materials, 2019, 29, 1906686.	14.9	79
4	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. ACS Applied Materials & Interfaces, 2019, 11, 33835-33843.	8.0	67
5	Enhanced Oxygen Evolution Electrocatalysis in Strained A-Site Cation Deficient LaNiO₃ Perovskite Thin Films. Nano Letters, 2020, 20, 8040-8045.	9.1	61
6	All-Solution-Processed WO₃/BiVO₄ Coreâ€“Shell Nanorod Arrays for Highly Stable Photoanodes. ACS Applied Materials & Interfaces, 2019, 11, 20004-20012.	8.0	57
7	Near-complete charge separation in tailored BiVO4-based heterostructure photoanodes toward artificial leaf. Applied Catalysis B: Environmental, 2021, 293, 120217.	20.2	57
8	Nanoscale electrodeposition: Dimension control and 3D conformality. Exploration, 2021, 1, .	11.0	46
9	Controlled Synthesis of Vertically Aligned SnO₂ Nanograss-Structured Thin Films for SnO₂/BiVO₄ Coreâ€“Shell Heterostructures with Highly Enhanced Photoelectrochemical Properties. Chemistry of Materials, 2018, 30, 8501-8509.	6.7	40
10	Tailored Graphene Micropatterns by Waferâ€Scale Direct Transfer for Flexible Chemical Sensor Platform. Advanced Materials, 2021, 33, e2004827.	21.0	40
11	Surfaceâ€Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts. Small, 2022, 18, e2105611.	10.0	36
12	Si-Based Water Oxidation Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts. , 2020, 2, 107-126.		35
13	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO₂ Nanorods Decorated by Edgeâ€Rich MoS₂ Nanoplates. Small, 2021, 17, e2103457.	10.0	35
14	Controlled Band Offsets in Ultrathin Hematite for Enhancing the Photoelectrochemical Water Splitting Performance of Heterostructured Photoanodes. ACS Applied Materials & Interfaces, 2022, 14, 7788-7795.	8.0	35
15	Amorphous Cobalt Oxide Nanowalls as Catalyst and Protection Layers on n-Type Silicon for Efficient Photoelectrochemical Water Oxidation. ACS Catalysis, 2020, 10, 420-429.	11.2	34
16	Substantially enhanced front illumination photocurrent in porous SnO₂ nanorods/networked BiVO₄ heterojunction photoanodes. Journal of Materials Chemistry A, 2018, 6, 14633-14643.	10.3	30
17	Multifunctional nano-heterogeneous Ni(OH)2/NiFe catalysts on silicon photoanode toward efficient water and urea oxidation. Applied Catalysis B: Environmental, 2022, 317, 121765.	20.2	28
18	Leadâ€Free Dualâ€Phase Halide Perovskites for Preconditioned Conductingâ€Bridge Memory. Small, 2020, 16, e2003225.	10.0	27

#	Article	IF	Citations
19	Comprehensive Study on the Morphology Control of TiO₂ Nanorods on Foreign Substrates by the Hydrothermal Method. Crystal Growth and Design, 2018, 18, 6504-6512.	3.0	26
20	Electrodeposited Heterogeneous Nickel-Based Catalysts on Silicon for Efficient Sunlight-Assisted Water Splitting. Cell Reports Physical Science, 2020, 1, 100219.	5.6	23
21	All-Solution-Processed BiVO₄/TiO₂ Photoanode with NiCo₂O₄ Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 5646-5656.	5.1	23
22	Grain Boundaries Boost Oxygen Evolution Reaction in NiFe Electrocatalysts. Small Methods, 2021, 5, 2000755.	8.6	22
23	Hierarchical Nanoporous BiVO₄ Photoanodes with High Charge Separation and Transport Efficiency for Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 14291-14301.	8.0	22
24	Influence of C3N4 Precursors on Photoelectrochemical Behavior of TiO2/C3N4 Photoanode for Solar Water Oxidation. Energies, 2020, 13, 974.	3.1	18
25	Triple Planar Heterojunction of SnO2/WO3/BiVO4 with Enhanced Photoelectrochemical Performance under Front Illumination. Applied Sciences (Switzerland), 2018, 8, 1765.	2.5	17
26	Understanding the Enhancement of the Catalytic Properties of Goethite by Transition Metal Doping: Critical Role of O* Formation Energy Relative to OH* and OOH*. ACS Applied Energy Materials, 2020, 3, 1634-1643.	5.1	17
27	Stabilization of NiFe Layered Double Hydroxides on n-Si by an Activated TiO₂ Interlayer for Efficient Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 12298-12307.	5.1	17
28	Atomic Layer Deposition Seeded Growth of Rutile SnO₂ Nanowires on Versatile Conducting Substrates. ACS Applied Materials & Interfaces, 2020, 12, 48486-48494.	8.0	16
29	Photoelectrochemical Reduction of CO2 to Syngas by Reduced Ag Catalysts on Si Photocathodes. Applied Sciences (Switzerland), 2020, 10, 3487.	2.5	14
30	Surface-tailored graphene channels. Npj 2D Materials and Applications, 2021, 5, .	7.9	12
31	Stabilization of FCC Phase Using Mn Incorporation in Nanograin Invar Alloy Foils Fabricated by Electroforming. Electronic Materials Letters, 2020, 16, 188-194.	2.2	2
32	Voltage-dependent gas discrimination using self-activated graphene with Pt decoration. Sensors and Actuators B: Chemical, 2021, 349, 130696.	7.8	2
33	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO₂ Nanorods Decorated by Edgeâ€Rich MoS₂ Nanoplates (Small 39/2021). Small, 2021, 17, 2170206.	10.0	1
34	Resistive Switching Memory: Leadâ€Free Dualâ€Phase Halide Perovskites for Preconditioned Conductingâ€Bridge Memory (Small 41/2020). Small, 2020, 16, 2070228.	10.0	0