Azhar I Carim

List of Publications by Year
in descending order

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28 papers	1,291 citations	567281 15 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	2499 citing authors

#	Article	IF	Citations
1	CoP as an Acid-Stable Active Electrocatalyst for the Hydrogen-Evolution Reaction: Electrochemical Synthesis, Interfacial Characterization and Performance Evaluation. Journal of Physical Chemistry C, 2014, 118, 29294-29300.	3.1	216
2	Electrocatalysis of the hydrogen-evolution reaction by electrodeposited amorphous cobalt selenide films. Journal of Materials Chemistry A, 2014, 2, 13835-13839.	10.3	133
3	Operando Spectroscopic Analysis of CoP Films Electrocatalyzing the Hydrogen-Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 12927-12930.	13.7	127
4	Operando Synthesis of Macroporous Molybdenum Diselenide Films for Electrocatalysis of the Hydrogen-Evolution Reaction. ACS Catalysis, 2014, 4, 2866-2873.	11.2	122
5	The Influence of Structure and Processing on the Behavior of TiO₂ Protective Layers for Stabilization of n-Si/TiO₂/Ni Photoanodes for Water Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 15189-15199.	8.0	114
6	Stabilization of n-cadmium telluride photoanodes for water oxidation to O₂(g) in aqueous alkaline electrolytes using amorphous TiO₂ films formed by atomic-layer deposition. Energy and Environmental Science, 2014, 7, 3334-3337.	30.8	111
7	Protection of inorganic semiconductors for sustained, efficient photoelectrochemical water oxidation. Catalysis Today, 2016, 262, 11-23.	4.4	87
8	Template-Free Preparation of Crystalline Ge Nanowire Film Electrodes via an Electrochemical Liquidâ€“Liquidâ€“Solid Process in Water at Ambient Pressure and Temperature for Energy Storage. Nano Letters, 2012, 12, 4617-4623.	9.1	78
9	Benchtop Electrochemical Liquidâ€“Liquidâ€“Solid Growth of Nanostructured Crystalline Germanium. Journal of the American Chemical Society, 2011, 133, 13292-13295.	13.7	64
10	Wet Chemical Functionalization of IIIâ€“V Semiconductor Surfaces: Alkylation of Gallium Arsenide and Gallium Nitride by a Grignard Reaction Sequence. Langmuir, 2012, 28, 4672-4682.	3.5	35
11	Optical and electrochemical effects of H₂ and O₂ bubbles at upward-facing Si photoelectrodes. Energy and Environmental Science, 2021, 14, 414-423.	30.8	26
12	Electrochemical surface science twenty years later: Expeditions into the electrocatalysis of reactions at the core of artificial photosynthesis. Surface Science, 2015, 631, 285-294.	1.9	22
13	Self-Optimizing Photoelectrochemical Growth of Nanopatterned Seâ€“Te Films in Response to the Spectral Distribution of Incident Illumination. Nano Letters, 2015, 15, 7071-7076.	9.1	19
14	Polarization Control of Morphological Pattern Orientation During Light-Mediated Synthesis of Nanostructured Seâ€“Te Films. ACS Nano, 2016, 10, 102-111.	14.6	17
15	Morphological Expression of the Coherence and Relative Phase of Optical Inputs to the Photoelectrodeposition of Nanopatterned Seâ€“Te Films. Nano Letters, 2016, 16, 2963-2968.	9.1	16
16	Profiling Photoinduced Carrier Generation in Semiconductor Microwire Arrays via Photoelectrochemical Metal Deposition. Nano Letters, 2016, 16, 5015-5021.	9.1	15
17	Structural and Photoelectrochemical Properties of GaP Nanowires Annealed in NH₃. Journal of Physical Chemistry C, 2011, 115, 22652-22661.	3.1	14
18	Template-Free Synthesis of Periodic Three-Dimensional PbSe Nanostructures via Photoelectrodeposition. Journal of the American Chemical Society, 2018, 140, 6536-6539.	13.7	14

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19	Overlayer Surface-Enhanced Raman Spectroscopy for Studying the Electrodeposition and Interfacial Chemistry of Ultrathin Ge on a Nanostructured Support. ACS Nano, 2011, 5, 1818-1830.	14.6	12
20	Preparation of photoactive ZnGeP2 nanowire films. Journal of Materials Chemistry, 2012, 22, 6613.	6.7	10
21	Inorganic Phototropism in Electrodeposition of Seâ€“Te. Journal of the American Chemical Society, 2019, 141, 18658-18661.	13.7	8
22	Optically tunable mesoscale CdSe morphologies via inorganic phototropic growth. Journal of Materials Chemistry C, 2020, 8, 12412-12417.	5.5	8
23	Demonstration of a Sensitive and Stable Chemical Gas Sensor Based on Covalently Functionalized MoS₂. , 2022, 4, 1475-1480.		8
24	Assessing Effects of Near-Field Synergistic Light Absorption on Ordered Inorganic Phototropic Growth. Journal of the American Chemical Society, 2021, 143, 3693-3696.	13.7	5
25	Influence of Redox-Inactive Cations on the Structure and Electrochemical Reactivity of Synthetic Birnessite, a Heterogeneous Analog for the Oxygen-Evolving Complex. Journal of Physical Chemistry C, 2016, 120, 15618-15631.	3.1	3
26	Path-Dependent Morphological Evolution of Seâ€“Te Mesostructures Prepared by Inorganic Phototropic Growth. Journal of the American Chemical Society, 2020, 142, 19840-19843.	13.7	3
27	Plastic Morphological Response to Spectral Shifts during Inorganic Phototropic Growth. Jacs Au, 2022, 2, 865-874.	7.9	3
28	Selective-Area, Water-Free Atomic Layer Deposition of Metal Oxides on Graphene Defects. ACS Materials Au, 0, , .	6.0	1