

Azhar I Carim

List of Publications by Year in descending order

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28
papers

1,291
citations

567281

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docs citations

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times ranked

2499
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastic Morphological Response to Spectral Shifts during Inorganic Phototropic Growth. <i>Jacs Au</i> , 2022, 2, 865-874.	7.9	3
2	Demonstration of a Sensitive and Stable Chemical Gas Sensor Based on Covalently Functionalized MoS ₂ . , 2022, 4, 1475-1480.		8
3	Optical and electrochemical effects of H ₂ and O ₂ bubbles at upward-facing Si photoelectrodes. <i>Energy and Environmental Science</i> , 2021, 14, 414-423.	30.8	26
4	Assessing Effects of Near-Field Synergistic Light Absorption on Ordered Inorganic Phototropic Growth. <i>Journal of the American Chemical Society</i> , 2021, 143, 3693-3696.	13.7	5
5	Path-Dependent Morphological Evolution of SeTe Mesostructures Prepared by Inorganic Phototropic Growth. <i>Journal of the American Chemical Society</i> , 2020, 142, 19840-19843.	13.7	3
6	Optically tunable mesoscale CdSe morphologies <i>via</i> inorganic phototropic growth. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12412-12417.	5.5	8
7	Inorganic Phototropism in Electrodeposition of SeTe. <i>Journal of the American Chemical Society</i> , 2019, 141, 18658-18661.	13.7	8
8	Template-Free Synthesis of Periodic Three-Dimensional PbSe Nanostructures via Photoelectrodeposition. <i>Journal of the American Chemical Society</i> , 2018, 140, 6536-6539.	13.7	14
9	<i>Operando</i> Spectroscopic Analysis of CoP Films Electrocatalyzing the Hydrogen-Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 12927-12930.	13.7	127
10	Morphological Expression of the Coherence and Relative Phase of Optical Inputs to the Photoelectrodeposition of Nanopatterned SeTe Films. <i>Nano Letters</i> , 2016, 16, 2963-2968.	9.1	16
11	Profiling Photoinduced Carrier Generation in Semiconductor Microwire Arrays via Photoelectrochemical Metal Deposition. <i>Nano Letters</i> , 2016, 16, 5015-5021.	9.1	15
12	Influence of Redox-Inactive Cations on the Structure and Electrochemical Reactivity of Synthetic Birnessite, a Heterogeneous Analog for the Oxygen-Evolving Complex. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15618-15631.	3.1	3
13	Polarization Control of Morphological Pattern Orientation During Light-Mediated Synthesis of Nanostructured SeTe Films. <i>ACS Nano</i> , 2016, 10, 102-111.	14.6	17
14	Protection of inorganic semiconductors for sustained, efficient photoelectrochemical water oxidation. <i>Catalysis Today</i> , 2016, 262, 11-23.	4.4	87
15	The Influence of Structure and Processing on the Behavior of TiO ₂ Protective Layers for Stabilization of n-Si/TiO ₂ /Ni Photoanodes for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15189-15199.	8.0	114
16	Self-Optimizing Photoelectrochemical Growth of Nanopatterned SeTe Films in Response to the Spectral Distribution of Incident Illumination. <i>Nano Letters</i> , 2015, 15, 7071-7076.	9.1	19
17	Electrochemical surface science twenty years later: Expeditions into the electrocatalysis of reactions at the core of artificial photosynthesis. <i>Surface Science</i> , 2015, 631, 285-294.	1.9	22
18	CoP as an Acid-Stable Active Electrocatalyst for the Hydrogen-Evolution Reaction: Electrochemical Synthesis, Interfacial Characterization and Performance Evaluation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29294-29300.	3.1	216

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19	Stabilization of n-cadmium telluride photoanodes for water oxidation to O ₂ (g) in aqueous alkaline electrolytes using amorphous TiO ₂ films formed by atomic-layer deposition. <i>Energy and Environmental Science</i> , 2014, 7, 3334-3337.	30.8	111
20	<i>Operando</i> Synthesis of Macroporous Molybdenum Diselenide Films for Electrocatalysis of the Hydrogen-Evolution Reaction. <i>ACS Catalysis</i> , 2014, 4, 2866-2873.	11.2	122
21	Electrocatalysis of the hydrogen-evolution reaction by electrodeposited amorphous cobalt selenide films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13835-13839.	10.3	133
22	Wet Chemical Functionalization of III-V Semiconductor Surfaces: Alkylation of Gallium Arsenide and Gallium Nitride by a Grignard Reaction Sequence. <i>Langmuir</i> , 2012, 28, 4672-4682.	3.5	35
23	Template-Free Preparation of Crystalline Ge Nanowire Film Electrodes via an Electrochemical Liquid-Liquid-Solid Process in Water at Ambient Pressure and Temperature for Energy Storage. <i>Nano Letters</i> , 2012, 12, 4617-4623.	9.1	78
24	Preparation of photoactive ZnGeP ₂ nanowire films. <i>Journal of Materials Chemistry</i> , 2012, 22, 6613.	6.7	10
25	Benchtop Electrochemical Liquid-Liquid-Solid Growth of Nanostructured Crystalline Germanium. <i>Journal of the American Chemical Society</i> , 2011, 133, 13292-13295.	13.7	64
26	Overlayer Surface-Enhanced Raman Spectroscopy for Studying the Electrodeposition and Interfacial Chemistry of Ultrathin Ge on a Nanostructured Support. <i>ACS Nano</i> , 2011, 5, 1818-1830.	14.6	12
27	Structural and Photoelectrochemical Properties of GaP Nanowires Annealed in NH ₃ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 22652-22661.	3.1	14
28	Selective-Area, Water-Free Atomic Layer Deposition of Metal Oxides on Graphene Defects. <i>ACS Materials Au</i> , 0, , .	6.0	1