

Mahmoud Hezam

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

595
citations

623188

14
h-index

610482

24
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30
all docs

30
docs citations

30
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation effect of nickel phosphate co-catalysts on the photoelectrochemical water oxidation performance of TiO ₂ nanotubes. <i>Journal of Saudi Chemical Society</i> , 2022, 26, 101484.	2.4	8
2	Improved solar water splitting performance of BiVO ₄ photoanode by the synergistic effect of Zr-Mo co-doping and FeOOH Co-catalyst layer. <i>Materials Letters</i> , 2022, 325, 132799.	1.3	5
3	TiNb thin films as absorbers for LWIR microbolometers. <i>Optical Materials</i> , 2021, 111, 110558.	1.7	3
4	Effect of sintering temperature on the microstructure and mechanical properties of the Ti-2.5Zr alloy. <i>Materials Research Express</i> , 2021, 8, 016522.	0.8	13
5	Anion Substitution Effects on the Structural, Electronic, and Optical Properties of Inorganic CsPb(I _x Br _{3-x}) ₃ and CsPb(Br _x Cl _{3-x}) ₃ Perovskites: Theoretical and Experimental Approaches. <i>Journal of Physical Chemistry C</i> , 2021, 125, 886-897.	1.5	25
6	Unprecedented solar water splitting of dendritic nanostructured Bi ₂ O ₃ films by combined oxygen vacancy formation and Na ₂ MoO ₄ doping. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23702-23714.	3.8	11
7	Hydrothermal growth optimization of vertically aligned ZnO nanowire arrays and their dye-sensitized solar cell performance under air/oxygen environments. <i>Materials Research Express</i> , 2021, 8, 105501.	0.8	3
8	ZnO Nanosheet-Nanowire morphology tuning for Dye-sensitized solar cell applications. <i>Chemical Physics Letters</i> , 2021, 780, 138953.	1.2	5
9	Label-free and simple detection of trace Pb(II) in tap water using non-faradaic impedimetric sensors. <i>Sensors and Actuators A: Physical</i> , 2021, 329, 112833.	2.0	13
10	Density Functional Study of Cubic, Tetragonal, and Orthorhombic CsPbBr ₃ Perovskite. <i>ACS Omega</i> , 2020, 5, 7468-7480.	1.6	105
11	Rapid Room-Temperature Synthesis of Mesoporous TiO ₂ Sub-Microspheres and Their Enhanced Light Harvesting in Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2020, 10, 413.	1.9	5
12	Effect of deposition method on the structural and optical properties of CH ₃ NH ₃ PbI ₃ perovskite thin films. <i>Optical Materials</i> , 2020, 103, 109836.	1.7	64
13	Sputter deposited GeSn alloy: A candidate material for temperature sensing layers in uncooled microbolometers. <i>Infrared Physics and Technology</i> , 2019, 97, 376-380.	1.3	15
14	Transient Liquid Phase Bonding of Ti-6Al-4V and Mg-AZ31 Alloys Using Zn Coatings. <i>Materials</i> , 2019, 12, 769.	1.3	17
15	Synthesis of Pure Brookite Nanorods in a Nonaqueous Growth Environment. <i>Crystals</i> , 2019, 9, 562.	1.0	22
16	Cooperative Catalytic Behavior of SnO ₂ and NiWO ₄ over BiVO ₄ Photoanodes for Enhanced Photoelectrochemical Water Splitting Performance. <i>Catalysts</i> , 2019, 9, 879.	1.6	13
17	Restraining effect of film thickness on the behaviour of amplified spontaneous emission from methylammonium lead iodide perovskite. <i>IET Optoelectronics</i> , 2019, 13, 2-6.	1.8	19
18	Structural and optical investigation of brookite TiO ₂ thin films grown by atomic layer deposition on Si (111) substrates. <i>Materials Chemistry and Physics</i> , 2019, 225, 55-59.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Designing zinc oxide nanostructures (nanoworms, nanoflowers, nanowalls, and nanorods) by pulsed laser ablation technique for gas sensing application. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4367-4375.	1.9	17
20	Fabrication of robust nanostructured (Zr)BiVO ₄ /nickel hexacyanoferrate core/shell photoanodes for solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 863-870.	10.8	40
21	Semibath Polymerization Approach for One-Pot Synthesis of Temperature- and Glucose-Responsive Core-Shell Nanogel Particles. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-9.	1.5	4
22	SrZnO nanostructures grown on templated <0001> Al ₂ O ₃ substrates by pulsed laser deposition. <i>AIP Advances</i> , 2017, 7, 095220.	0.6	0
23	Laser induced photocurrent and photovoltage transient measurements of dye-sensitized solar cells based on TiO ₂ nanosheets and TiO ₂ nanoparticles. <i>Electrochimica Acta</i> , 2016, 212, 992-997.	2.6	11
24	Photovoltaic and Amplified Spontaneous Emission Studies of High-Quality Formamidinium Lead Bromide Perovskite Films. <i>Advanced Functional Materials</i> , 2016, 26, 2846-2854.	7.8	66
25	Asymmetric Cathodoluminescence Emission in CH ₃ NH ₃ PbBr ₃ Perovskite Single Crystals. <i>ACS Photonics</i> , 2016, 3, 947-952.	3.2	30
26	Pulsed laser deposition growth of 3D ZnO nanowall network in nest-like structures by two-step approach. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 539-545.	3.0	17
27	Invoking the frequency dependence in square modulated light intensity techniques for the measurement of electron time constants in dye-sensitized solar cells. , 2015, , .		0
28	Facile synthesis of water-soluble luminescent mesoporous Tb(OH) ₃ @SiO ₂ core-shell nanospheres. <i>Nanoscale Research Letters</i> , 2013, 8, 163.	3.1	22
29	Synthesis and characterization of DC magnetron sputtered ZnO thin films under high working pressures. <i>Thin Solid Films</i> , 2010, 518, e161-e164.	0.8	26
30	Synthesis and characterisation of nitrogen-doped ZnO thin films. <i>International Journal of Nano and Biomaterials</i> , 2009, 2, 216.	0.1	5