

Mahmoud Hezam

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

595
citations

623734
14
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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. Journal of Saudi Chemical Society, 2022, 26, 101484.	5.2	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. Materials Letters, 2022, 325, 132799.	2.6	5
3	TiNb thin films as absorbers for LWIR microbolometers. Optical Materials, 2021, 111, 110558.	3.6	3
4	Effect of sintering temperature on the microstructure and mechanical properties of the Ti-2.5Zr alloy. Materials Research Express, 2021, 8, 016522.	1.6	13
5	Anion Substitution Effects on the Structural, Electronic, and Optical Properties of Inorganic CsPb(I _{1-x} Br _x) ₃ and CsPb(Br _{1-x} Cl _x) ₃ Perovskites: Theoretical and Experimental Approaches. Journal of Physical Chemistry C, 2021, 125, 886-897.	3.1	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. International Journal of Hydrogen Energy, 2021, 46, 23702-23714.	7.1	11
7	Hydrothermal growth optimization of vertically aligned ZnO nanowire arrays and their dye-sensitized solar cell performance under air/oxygen environments. Materials Research Express, 2021, 8, 105501.	1.6	3
8	ZnO Nanosheet-Nanowire morphology tuning for Dye-sensitized solar cell applications. Chemical Physics Letters, 2021, 780, 138953.	2.6	5
9	Label-free and simple detection of trace Pb(II) in tap water using non-faradaic impedimetric sensors. Sensors and Actuators A: Physical, 2021, 329, 112833.	4.1	13
10	Density Functional Study of Cubic, Tetragonal, and Orthorhombic CsPbBr ₃ Perovskite. ACS Omega, 2020, 5, 7468-7480.	3.5	105
11	Rapid Room-Temperature Synthesis of Mesoporous TiO ₂ Sub-Microspheres and Their Enhanced Light Harvesting in Dye-Sensitized Solar Cells. Nanomaterials, 2020, 10, 413.	4.1	5
12	Effect of deposition method on the structural and optical properties of CH ₃ NH ₃ PbI ₃ perovskite thin films. Optical Materials, 2020, 103, 109836.	3.6	64
13	Sputter deposited GeSn alloy: A candidate material for temperature sensing layers in uncooled microbolometers. Infrared Physics and Technology, 2019, 97, 376-380.	2.9	15
14	Transient Liquid Phase Bonding of Ti-6Al-4V and Mg-AZ31 Alloys Using Zn Coatings. Materials, 2019, 12, 769.	2.9	17
15	Synthesis of Pure Brookite Nanorods in a Nonaqueous Growth Environment. Crystals, 2019, 9, 562.	2.2	22
16	Cooperative Catalytic Behavior of SnO ₂ and NiWO ₄ over BiVO ₄ Photoanodes for Enhanced Photoelectrochemical Water Splitting Performance. Catalysts, 2019, 9, 879.	3.5	13
17	Restraining effect of film thickness on the behaviour of amplified spontaneous emission from methylammonium lead iodide perovskite. IET Optoelectronics, 2019, 13, 2-6.	3.3	19
18	Structural and optical investigation of brookite TiO ₂ thin films grown by atomic layer deposition on Si (111) substrates. Materials Chemistry and Physics, 2019, 225, 55-59.	4.0	11

#	ARTICLE	IF	CITATIONS
19	Designing zinc oxide nanostructures (nanoworms, nanoflowers, nanowalls, and nanorods) by pulsed laser ablation technique for gas sensing application. Journal of the American Ceramic Society, 2019, 102, 4367-4375.	3.8	17
20	Fabrication of robust nanostructured (Zr)BiVO ₄ /nickel hexacyanoferrate core/shell photoanodes for solar water splitting. Applied Catalysis B: Environmental, 2019, 244, 863-870.	20.2	40
21	Semibath Polymerization Approach for One-Pot Synthesis of Temperature- and Glucose-Responsive Core-Shell Nanogel Particles. Journal of Nanomaterials, 2018, 2018, 1-9.	2.7	4
22	SrZnO nanostructures grown on templated <0001> Al ₂ O ₃ substrates by pulsed laser deposition. AIP Advances, 2017, 7, 095220.	1.3	0
23	Laser induced photocurrent and photovoltage transient measurements of dye-sensitized solar cells based on TiO ₂ nanosheets and TiO ₂ nanoparticles. Electrochimica Acta, 2016, 212, 992-997.	5.2	11
24	Photovoltaic and Amplified Spontaneous Emission Studies of High-Quality Formamidinium Lead Bromide Perovskite Films. Advanced Functional Materials, 2016, 26, 2846-2854.	14.9	66
25	Asymmetric Cathodoluminescence Emission in CH ₃ NH ₃ PbBr ₃ Perovskite Single Crystals. ACS Photonics, 2016, 3, 947-952.	6.6	30
26	Pulsed laser deposition growth of 3D ZnO nanowall network in nest-like structures by two-step approach. Solar Energy Materials and Solar Cells, 2015, 143, 539-545.	6.2	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. Nanoscale Research Letters, 2013, 8, 163.	5.7	22
29	Synthesis and characterization of DC magnetron sputtered ZnO thin films under high working pressures. Thin Solid Films, 2010, 518, e161-e164.	1.8	26
30	Synthesis and characterisation of nitrogen-doped ZnO thin films. International Journal of Nano and Biomaterials, 2009, 2, 216.	0.1	5