

Hamid M Ghaithan

List of Publications by Year in descending order

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47
papers

1,004
citations

430874

18
h-index

454955

30
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47
all docs

47
docs citations

47
times ranked

807
citing authors

#	ARTICLE	IF	CITATIONS
1	Density Functional Study of Cubic, Tetragonal, and Orthorhombic CsPbBr ₃ Perovskite. ACS Omega, 2020, 5, 7468-7480.	3.5	105
2	Optical and structural properties of CsPbBr ₃ perovskite quantum dots/PFO polymer composite thin films. Journal of Colloid and Interface Science, 2020, 563, 426-434.	9.4	77
3	Rapid microwave-assisted synthesis of Ag-doped PbS nanoparticles for optoelectronic applications. Ceramics International, 2019, 45, 21975-21985.	4.8	70
4	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
5	Effect of Gd doping on structural, optical properties, photoluminescence and electrical characteristics of CdS nanoparticles for optoelectronics. Ceramics International, 2019, 45, 10133-10141.	4.8	54
6	A facile one-pot flash combustion synthesis of La@ZnO nanoparticles and their characterizations for optoelectronic and photocatalysis applications. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 395, 112465.	3.9	51
7	Designing of highly active g-C ₃ N ₄ /Co@ZnO ternary nanocomposites for the disinfection of pathogens and degradation of the organic pollutants from wastewater under visible light. Journal of Environmental Chemical Engineering, 2021, 9, 105534.	6.7	48
8	Mesoporous multi-silica layer-coated Y ₂ O ₃ :Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. Materials Science and Engineering C, 2019, 96, 365-373.	7.3	42
9	First principle study of lead-free double perovskites halides Rb ₂ Pd(Cl/Br) ₆ for solar cells and renewable energy devices: A quantum DFT. International Journal of Energy Research, 2021, 45, 14995-15004.	4.5	33
10	Structural, morphological, vibrational, optical, and nonlinear characteristics of spray pyrolyzed CdS thin films: Effect of Gd doping content. Materials Chemistry and Physics, 2020, 255, 123615.	4.0	30
11	Dielectric and electrical properties of La@NiO SNPs for high-performance optoelectronic applications. Ceramics International, 2021, 47, 15611-15621.	4.8	29
12	Density Functional Theory Analysis of Structural, Electronic, and Optical Properties of Mixed-Halide Orthorhombic Inorganic Perovskites. ACS Omega, 2021, 6, 30752-30761.	3.5	28
13	Fabrication of Thin Films from Powdered Cesium Lead Bromide (CsPbBr ₃) Perovskite Quantum Dots for Coherent Green Light Emission. ACS Omega, 2020, 5, 30111-30122.	3.5	26
14	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. Journal of Physical Chemistry C, 2021, 125, 886-897.	3.1	25
15	Fabrication of lead-free CsBi ₃ I ₁₀ based compact perovskite thin films by employing solvent engineering and anti-solvent treatment techniques: an efficient photo-conversion efficiency up to 740 nm. Sustainable Energy and Fuels, 2020, 4, 5042-5049.	4.9	24
16	Structural, Electronic, and Optical Properties of CsPb(Br _x Cl _{3-x}) ₃ Perovskite: First-Principles Study with PBE-GGA and mBJ-GGA Methods. Materials, 2020, 13, 4944.	2.9	22
17	Achieving Optical Gain of the CsPbBr ₃ Perovskite Quantum Dots and Influence of the Variable Stripe Length Method. ACS Omega, 2021, 6, 5297-5309.	3.5	21
18	Ultra-Stable Polycrystalline CsPbBr ₃ Perovskite-Polymer Composite Thin Disk for Light-Emitting Applications. Nanomaterials, 2020, 10, 2382.	4.1	18

#	ARTICLE	IF	CITATIONS
19	Single-Source Thermal Evaporation Growth and the Tuning Surface Passivation Layer Thickness Effect in Enhanced Amplified Spontaneous Emission Properties of CsPb(Br _{0.5} Cl _{0.5}) ₃ Perovskite Films. <i>Polymers</i> , 2020, 12, 2953.	4.5	15
20	First principle-based calculations of the optoelectronic features of 2 x 2 x 2 CsPb(1-xBrx) ₃ perovskite. <i>Superlattices and Microstructures</i> , 2020, 140, 106474.	3.1	15
21	Investigation of the Surface Passivation Effect on the Optical Properties of CsPbBr ₃ Perovskite Quantum Dots. <i>Surfaces and Interfaces</i> , 2021, 23, 100948.	3.0	15
22	Enhancement of Light Amplification of CsPbBr ₃ Perovskite Quantum Dot Films via Surface Encapsulation by PMMA Polymer. <i>Polymers</i> , 2021, 13, 2574.	4.5	15
23	Influence of Inorganic NiO x Hole Transport Layer on the Growth of CsBi ₃ I ₁₀ Perovskite Films for Photovoltaic Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002083.	3.7	14
24	Tuning of Amplified Spontaneous Emission Wavelength for Green and Blue Light Emission through the Tunable Composition of CsPb(Br _x Cl _{1-x}) ₃ Inorganic Perovskite Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9441-9452.	3.1	14
25	Improving Photophysical Properties of White Emitting Ternary Conjugated Polymer Blend Thin Film via Additions of TiO ₂ Nanoparticles. <i>Polymers</i> , 2020, 12, 2154.	4.5	13
26	Enhancing the Optical and Optoelectronic Properties of MEH-PPV-Based Light-Emitting Diodes by Adding SiO ₂ /TiO ₂ Nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2021, 552, 120429.	3.1	13
27	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.	5.2	11
28	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.	4.0	11
29	Amplified Spontaneous Emission from Thermally Evaporated High-Quality Thin Films of CsPb(Br _x Y _{1-x}) ₃ (Y = I, Cl) Perovskites. <i>Langmuir</i> , 2022, 38, 8607-8613.	3.5	10
30	Magnetron sputtered Dy ₂ O ₃ with chromium and copper contents for antireflective thin films with enhanced absorption. <i>Journal of Rare Earths</i> , 2019, 37, 989-994.	4.8	9
31	Computational Investigation of the Folded and Unfolded Band Structure and Structural and Optical Properties of CsPb(1-xBrx) ₃ Perovskites. <i>Crystals</i> , 2020, 10, 342.	2.2	9
32	Tuning the Optical Properties of MEH-PPV/PFO Hybrid Thin Films via the Incorporation of CsPbBr ₃ Quantum Dots. <i>Coatings</i> , 2021, 11, 154.	2.6	8
33	Using a Spectrofluorometer for Resonance Raman Spectra of Organic Molecules. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-7.	1.3	7
34	Gamma ray-induced effects on the properties of CsPbBr ₃ perovskite thin film. <i>Journal of King Saud University - Science</i> , 2022, 34, 101802.	3.5	7
35	Structural, optical, and antibacterial characteristics of mixed metal oxide CdO-NiO-Fe ₂ O ₃ nanocomposites prepared using a self-combustion method at different polyvinyl alcohol concentrations. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	7
36	Triplet Energy Transfer Mechanism of Ternary Organic Hybrid Thin Films of PFO/MEH-PPV/CsPbBr ₃ Perovskite Quantum Dots. <i>Nanomaterials</i> , 2020, 10, 2094.	4.1	6

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37	A facile approach to construct organic Dye-sensitized solar cells via sequential condensation reactions for dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 289-296.	4.9	6
38	Mesoporous Organo-Silica Supported Chromium Oxide Catalyst for Oxidative Dehydrogenation of Ethane to Ethylene with CO ₂ . <i>Catalysts</i> , 2021, 11, 642.	3.5	6
39	ZnO Nanosheet-Nanowire morphology tuning for Dye-sensitized solar cell applications. <i>Chemical Physics Letters</i> , 2021, 780, 138953.	2.6	5
40	Controlling the Emission Spectrum of Binary Emitting Polymer Hybrids by a Systematic Doping Strategy via Förster Resonance Energy Transfer for White Emission. <i>Micromachines</i> , 2021, 12, 1371.	2.9	5
41	Tuning Photophysical Properties of Donor/Acceptor Hybrid Thin-Film via Addition of SiO ₂ /TiO ₂ Nanocomposites. <i>Polymers</i> , 2021, 13, 611.	4.5	4
42	Investigation of Threshold Carrier Densities in the Optically Pumped Amplified Spontaneous Emission of Formamidinium Lead Bromide Perovskite Using Different Excitation Wavelengths. <i>Photonics</i> , 2022, 9, 4.	2.0	4
43	Influence of single and dual doping (Ag and Co) on the optical properties of CdS quantum dot thin films for solar application. <i>Optik</i> , 2021, 246, 167824.	2.9	3
44	Solvent Effects on the Structural and Optical Properties of MAPbI ₃ Perovskite Thin Film for Photovoltaic Active Layer. <i>Coatings</i> , 2022, 12, 549.	2.6	3
45	Influence of SiO ₂ /TiO ₂ nanocomposites on dual resonance Förster energy transfer in ternary hybrid thin films. <i>Results in Physics</i> , 2021, 24, 104142.	4.1	2
46	Invoking the frequency dependence in square modulated light intensity techniques for the measurement of electron time constants in dye-sensitized solar cells. , 2015, , .		0
47	First-principles Investigation of Structural, Electronic and Optical Properties of CsPb (1-x)Br ₃ (x =) Tj ETQq1 1 0.784314 rgBT /Overl		0