Muhammad Hassan Sayyad

List of Publications by Year
in descending order

21	235	933447 10	996975 15
papers	citations	h-index	g-index

21	21	21	293
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress towards High-Efficiency and Stable Tin-Based Perovskite Solar Cells. Energies, 2020, 13, 5092.	3.1	35
2	Dye-Sensitized Solar Cells Based on Porous Hollow Tin Oxide Nanofibers. IEEE Transactions on Electron Devices, 2015, 62, 2027-2032.	3.0	29
3	Application of MXenes in Perovskite Solar Cells: A Short Review. Nanomaterials, 2021, 11, 2151.	4.1	29
4	Recent advances and emerging trends of rare-earth-ion doped spectral conversion nanomaterials in perovskite solar cells. Journal of Rare Earths, 2022, 40, 1651-1667.	4.8	19
5	Synthesis, modeling and photovoltaic properties of a benzothiadiazole based molecule for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 4501-4507.	2.2	16
6	Photovoltaic performance and impedance spectroscopy of a purely organic dye and most common metallic dye based dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 6552-6559.	2.2	16
7	Hysteresis Analysis of Hole-Transport-Material-Free Monolithic Perovskite Solar Cells with Carbon Counter Electrode by Current Densityâ€“Voltage and Impedance Spectra Measurements. Nanomaterials, 2021, 11, 48.	4.1	15
8	Comparative study of impedance spectroscopy and photovoltaic properties of metallic and natural dye based dye sensitized solar cells. Physica B: Condensed Matter, 2021, 602, 412567.	2.7	14
9	Synthesis, computational study and characterization of a 3-{[2,3-diphenylquinoxalin-6-yl]diazenyl}-4-hydroxy-2H-chromen-2- one azo dye for dye-sensitized solar cell applications. Journal of Computational Electronics, 2018, 17, 821-829.	2.5	10
10	A flexible, printable, thin-film thermoelectric generator based on reduced graphene oxideâ€“carbon nanotubes composites. Journal of Materials Science, 2020, 55, 10572-10581.	3.7	10
11	Perylene Tetracarboxylic Diimide: Characterization and Its Role in the Electrical Properties of an Ag/N-BuHHPDI/PEDOT:PSS/p-Si Heterojunction Device. Journal of Electronic Materials, 2020, 49, 395-401.	2.2	8
12	Step-by-Step Heating of Dye Solution for Efficient Solar Energy Harvesting in Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2018, 47, 4737-4741.	2.2	6
13	Layer-by-Layer Titanium (IV) Chloride Treatment of TiO2 Films to Improve Solar Energy Harvesting in Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2021, 50, 613-619.	2.2	6
14	THE SENSING OF HUMIDITY BY SURFACE-TYPE Ag/FORMYL-TIPPCu(II)/Ag SENSOR FOR ENVIRONMENTAL MONITORING. Surface Review and Letters, 2014, 21, 1450048.	1.1	5
15	Optimizing zinc oxide nanorods based DSSC employing different growth conditions and SnO coating. Journal of Materials Science: Materials in Electronics, 2021, 32, 2366-2372.	2.2	5
16	Comparative photovoltaic and impedance spectroscopic study on carbon counter electrode based CdS quantum dot sensitized solar cell using polysulfide and iodide/triiodide as redox liquid electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115437.	3.5	5
17	Extraction of Electronic Parameters of PEDOT:PSS-PVA/n-Si Heterojunction Diode. , 2010, , .		3
18	Urea treated WO<inf>3</inf> and SnO<inf>2</inf> as cost effective and efficient counter electrodes of dye sensitized solar cells. , 2016, , .		2

#	Article	IF	Citations
19	Candle soot based carbon counter electrode for cost-effective dye sensitized solar cells. , 2021, , .		1
20	Impact of drying temperature on the photovoltaic performance and impedance spectra of hole transport material free air processed perovskite solar cells. Journal of Materials Science: Materials in Electronics, 2021, 32, 5353-5360.	2.2	1
21	Temperature dependant electrical properties of formyl-TIPPCu(II)/p-Si heterojunction diode. Modern Physics Letters B, 2014, 28, 1450100.	1.9	0