

Article Title	Journal Name	Indexed In	Link or DOI	Journal Rank	Category Rank
Quantum chemical modification of indaceno dithiophene-based small acceptor molecules with enhanced photovoltaic aspects for highly efficient organic solar cells	RSC advances	W oS	DOI: 10.1039/D2RA05239C	55/160	Q1
Enhancing the efficiency of Cu ₂ Te thin-film solar cell with WS ₂ buffer layer: A simulation study	Optics and Laser Technology	W oS	https://doi.org/10.1016/j.optlastec.2022.108942	20/101	Q1
Environmentally compatible and highly improved hole transport materials (HTMs) based on benzotrithiophene (BTT) skeleton for perovskite as well as narrow bandgap donors for organic solar cells	Solar Energy	W oS	https://doi.org/10.1016/j.solener.2021.12.010	12/100	Q1
Environmentally compatible and highly improved hole transport materials (HTMs) based on benzotrithiophene (BTT) skeleton for perovskite as well as narrow bandgap donors for organic solar cells	Solar Energy	W oS	https://doi.org/10.1016/j.solener.2021.12.010	12/100	Q1
Magnetic Ge:Mn nanocrystals grown by MBE on insulator substrate for solar cell and photodetector applications	Applied Surface Science	W oS	https://doi.org/10.1016/j.apsusc.2021.151644	44582	Q1
Quantum chemical study of end-capped acceptor and bridge on triphenyl diamine based molecules to enhance the optoelectronic properties of organic solar cells	Polymer	W oS	https://doi.org/10.1016/j.polymer.2022.124675	10/100	Q1
Solar energy conversion to electricity by Tris (2, 2'-bipyridyl) ruthenium (II) chloride hexahydrate-diethyl ammonium tetrachloroferrate-oxalic acid photogalvanic cell: Statistical analysis	Journal of Molecular Liquid	W oS	https://doi.org/10.1016/j.molliq.2021.117824	13606	Q1
Investigation of the effect of hybrid CuO-Cu/water nanofluid on the solar thermal energy storage system	JOURNAL OF ENERGY STORAGE	W oS	https://doi.org/10.1016/j.est.2022.104675	28/114	Q1
Molecular Engineering Optimized Carbon Nitride Photocatalyst for CO ₂ Reduction to Solar Fuels	Journal of Science Advanced Materials and Devices	W oS	10.1016/j.jsamd.2022.100483	0	Q1
Quantum chemical modification of indaceno dithiophene-based small acceptor molecules with enhanced photovoltaic aspects for highly efficient organic solar cells	RSC advances	W oS	DOI: 10.1039/D2RA05239C	55/160	Q1
Energy conversion performance of porous ZrTe hybrid derived from chemical transformation of Zr(OH) ₄	Fuel	W oS	https://doi.org/10.1016/j.fuel.2022.125264	29/119	Q1
Energy conversion performance of porous ZrTe hybrid derived from chemical transformation of Zr(OH) ₄	Fuel	W oS	https://doi.org/10.1016/j.fuel.2022.125264	29/119	Q1
Evaluation of d-block metal sulfides as electrode materials for battery-supercapacitor energy storage devices	Journal of Energy Storage	W oS	https://doi.org/10.1016/j.est.2022.105418	23/119	Q1
Evaluation of d-block metal sulfides as electrode materials for battery-supercapacitor energy storage devices	Journal of Energy Storage	W oS	https://doi.org/10.1016/j.est.2022.105418	23/119	Q1
Exploring the synergy of binder free MoWS ₂ @ Ag as electrode materials for hybrid supercapacitors	Journal of Energy Storage	W oS	https://doi.org/10.1016/j.est.2022.105925	23/119	Q1
Facile hydrothermal synthesis of Dy-doped NiMnO ₃ nanoflakes as a highly stable electrode for energy conversion system	Journal of Sol-Gel Science and Technology	W oS	https://doi.org/10.1007/s10971-022-05953-3	https://link.springer.com/article/10.1007/s10971-022-05953-3	Q1
Green synthesis of magnesium oxide nanosheets by using Citrullus colocynthis fruit extract and its use in biofuel production	Biomass and Bioenergy 167, 106640	W oS	https://doi.org/10.1016/j.biombioe.2022.106640	x	Q1
Dynamic models for air-breathing and conventional polymer electrolyte fuel cells: A comparative study	RENEWABLE ENERGY	W oS	https://doi.org/10.1016/j.renene.2022.06.092	25/119	Q1
End-group Modification of terminal acceptors on benzothiadiazole-based BT2F-IC4F molecule to establish efficient organic solar cells	Journal of Molecular Liquids	W oS	https://doi.org/10.1016/j.molliq.2022.120770	13302	Q1-Top 10%
Electrochemical performance of transition metal sulfide by employing different synthesis techniques for hybrid batteries	International Journal of Energy Research	W oS	doi:10.1002/er.8592	12420	Q1-Top 10%
Ag ₂ Se/SnTe nanorod as potential candidate for energy conversion system developed via hydrothermal route	Ceramics International	W oS	https://doi.org/10.1016/j.ceramint.2022.10.131	44649	Q1-Top 10%
Diffusion control and surface control mechanism in hierarchical nanostructured porous zinc-based MOF material for supercapattery	International Journal of Energy Research	W oS	https://doi.org/10.1002/er.8169	13881	Q1-Top 10%

Diffusion control and surface control mechanism in hierarchical nanostructured porous zinc-based MOF material for supercapattery	International Journal of Energy Research	W oS	https://doi.org/10.1002/er.8169	13881	Q1-Top 10%
Reduced graphene oxide/cobalt phosphate composites with improved electrochemical performance for supercapattery devices	International Journal of Energy Research	W oS	https://doi.org/10.1002/er.8636	18/196	Q1-Top 10%
State of the art advancement in rational design of g-C ₃ N ₄ photocatalyst for efficient solar fuel transformation, environmental decontamination and future perspectives	International Journal of Hydrogen Energy	W oS	https://doi.org/10.1016/j.ijhydene.2021.11.252	48/162	Q2
Synthesis and characterization of undoped and copper-doped zinc oxide nanowires for optoelectronic and solar cells applications	Applied Physics A volume	W oS	https://doi.org/10.1007/s00339-021-05155-8	77/160	Q2
The influential role of ITO heat treatment on improving the performance of solar cell n-ITO/p-Si junction: Structural, optical, and electrical characterizations	Materials Today Communications	W oS	https://doi.org/10.1016/j.mtcomm.2022.103272	25/125	Q2
Experimental and theoretical investigations on structural-function relationship of new iron (III) complex with 2-(Ammoniomethyl)pyridinium cation as ligand: A promising material for green solar cells	Journal of Molecular Structure	W oS	https://doi.org/10.1016/j.molstruc.2021.132051	23/72	Q2
The influential role of ITO heat treatment on improving the performance of solar cell n-ITO/p-Si junction: Structural, optical, and electrical characterizations	MATERIALS TODAY COMMUNICATIONS	W oS	https://doi.org/10.1016/j.mtcomm.2022.103272	165/334	Q2
Facile synthesis of rGO/PANI/ZnO ternary nanocomposites for energy storage devices	Journal of the Korean Ceramic Society	W oS	https://doi.org/10.1007/s43207-022-00250-9	44833	Q2
A new cadmium oxide (CdO) and copper selenide (CuSe) nanocomposite: An energy-efficient electrode for wide-voltage hybrid supercapacitors	Colloids and Surfaces A: Physicochemical and Engineering Aspects	W oS	https://doi.org/10.1016/j.colsurfa.2022.130327	1	Q2
Structural characteristics and optical properties of methylcellulose/polyaniline films modified by low energy oxygen irradiation	Inorganic Chemistry Communications	W oS	https://doi.org/10.1016/j.inoche.2022.109502	0	Q2
Tunable decorated flake interlayers of functionalized graphene oxide for energy storage devices	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	W oS	https://doi.org/10.1007/s00339-022-05707-6	72/161	Q2
Solar Array Drive Assembly Disturbance Modeling, Jitter Analysis and Validation Tests for Precision Space-Based Operations	Journal of Vibration Engineering & Technologies	W oS	https://link.springer.com/article/10.1007/s42417-022-00688-	75/137	Q3
Determination of an Energy Source Term for Fractional Diffusion Equation	Journal of Sensors	W oS	https://doi.org/10.1155/2022/7984688	120/270	Q3