

### Basic Information :

**Name :** Mostafa Mohamed Salaheldin Abdelkhalek

**Title :** lecturer



Mostafa Mohamed Salah El Dein  
Born on October 1, 1991

### Education:

Certificate	Major	University	Year
PhD			2023
Masters			2019
Bachelor			2013

### Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Teaching Staff Member	01/10/2013	Current

### Researches / Publications :

Investigation of Polymer/Si Thin Film Tandem Solar Cell Using TCAD Numerical Simulation
Electronic Properties, Linear and Nonlinear Performance of KAgCh (Ch = S, Se) Compounds: A First-Principles Study
Analytical Design of Optimal Model Predictive Control and Its Application in Small-Scale Helicopters
First-Principles Studies on the Physical Properties of the Half Heusler RbNbCd and RbNbZn Compounds: A Promising Material for Thermoelectric Applications
A New Self-Tuning Deep Neuro-Sliding Mode Control for Multi-Machine Power System Stabilizer
A Comprehensive Review on Recent Advancements in Absorption-Based Post Combustion Carbon Capture Technologies to Obtain a Sustainable Energy Sector with Clean Environment
Metal Oxide Nanosheet: Synthesis Approaches and Applications in Energy Storage Devices (Batteries, Fuel Cells, and Supercapacitors)
Numerical Simulation and Optimization of Inorganic Lead-Free Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> -Based Perovskite Photovoltaic Cell: Impact of Various Design Parameters
A Comprehensive First-Principles Investigation of SnTiO <sub>3</sub> Perovskite for Optoelectronic and Thermoelectric Applications
Device Modeling of Efficient PBDB-T:PZT-Based All-Polymer Solar Cell: Role of Band Alignment
Investigation of High-Efficiency and Stable Carbon-Perovskite/Silicon and Carbon-Perovskite/CIGS-GeTe Tandem Solar Cells
Design and Simulation of ETL-Free Perovskite/Si Tandem Cell With 33% Efficiency
Simulation of High open-circuit voltage Perovskite/CIGS-GeTe tandem cell
Investigation of Electron Transport Material-Free Perovskite/CIGS Tandem Solar Cell
Analysis of an Efficient ZnO/GeTe Solar Cell Using SCAPS-1D
High-Efficiency Electron Transport Layer-Free Perovskite/GeTe Tandem Solar Cell: Numerical Simulation
On the Investigation of Interface Defects of Solar Cells: Lead-Based vs Lead-Free Perovskite
High Efficiency Tandem Perovskite/CIGS Solar Cell
A comprehensive simulation study of hybrid halide perovskite solar cell with copper oxide as HTM

A comparative study of different ETMs in perovskite solar cell with inorganic copper iodide as HTM