



Basic Information :

Name : MOHAMED MOUSSA SAYED EMAM AHMED
Title : Lecturer

Eng. Mohamed Moussa joined Faculty of Engineering and Technology since September 2006. He has been graduated from Electronics and Communications Engineering Dept., Faculty of Engineering and Technology . Future University in Egypt. He achieved an excellent score {CGPA = 4. 0}.
September 2011, Eng. Mohamed Moussa joined the EED as a Teaching Assistant.
January 2012, Eng. Mohamed Moussa joined Electronics and Communications Engineering Dept., Faculty of Engineering, Ain- Shams University to follow up his postgraduate studies.
He achieved excellent results where he terminated successfully 10 courses with CGPA equals to 3.90.

Education:

Certificate	Major	University	Year
PhD			2022
Masters			2017
Bachelor			2011

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Lecturer	02/10/2011	Current

Researches / Publications :

- Optimization techniques for power conversion efficiency boosting in lead-free Cs₂SnI₄Br₂-based perovskite solar cell
- Structural and optoelectronic properties of Ba₃F₂As₃ (A = Zn and Cd) barium fluoro-selenides for energy storage application: In accordance with the Shockley. Queisser limit
- Exploring structural stability, optoelectronic, photocatalytic hydrogen production and hydrogen storage properties of A₃Be₂H₉ (A= Li and Na) hydrides
- Optimization Techniques for Power Conversion Efficiency Boosting in Lead-Free Cs₂SnI₄Br₂-Based Perovskite Solar Cell
- A Comprehensive Comparison of 2T and 4T Perovskite/CIGS Tandem Solar Cell Configurations
- Novel Weighted Dynamic Hardy-Type Inequalities in the Framework of Delta Conformable calculus on Time Scales
- Solving Parabolic Differential Equations via Haar Wavelets: A Focus on Integral Boundary Conditions
- Improving optoelectronic and solar cell performance from 24 to 31 % via switching from 0D Cs₃Bi₂I₉ to 2D Cs₃Bi₂I₆Cl₃ perovskite for energy harvesting application
- Unveiling 2D Rb₃Bi₂I₆Cl₃ and Rb₃Bi₂I₃Cl₆ perovskites for optoelectronic, solar cell and photocatalytic applications
- Hydrogen storage, optoelectronic and structural properties of novel osmium hydride
- ANALYSIS OF THE DYNAMICS OF HIV AND THE IMMUNE SYSTEM UNDER THE EFFECT OF DRUGS THROUGH A FRACTIONAL FRAMEWORK
- Effect of elemental concentration on the opto-electronic and thermoelectric properties of Zintl phase SrInAs system
- Simulation and Optimization of Highly Efficacious Polymer Solar Cell
- Investigation of the Impact of Different Materials on the Efficiency of Lead-free Perovskite Solar Cell
- Efficient Perovskite Multi-Junction Cell with Twin-Layered Absorber

Proposal and design of organic/CIGS tandem solar cell: Unveiling optoelectronic approaches for enhanced photovoltaic performance

Solutions of a three-dimensional multi-term fractional anomalous solute transport model for contamination in groundwater

Numerical Analysis of Carbon-Based Perovskite Tandem Solar Cells: Pathways Towards High Efficiency and Stability

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

High-efficiency modified tandem solar cell: Simulation of two-absorbers bottom subcell

Two-Terminal Perovskite/Silicon Solar Cell: Simulation and Analysis

Simulation of High-Efficiency Perovskite-Based Tandem Solar Cells

On the Investigation of Interface Defects of Solar Cells: Lead-Based vs Lead-Free Perovskite

Simulation of optimized high-current tandem solar-cells with efficiency beyond 41%

High Efficiency Tandem Perovskite/CIGS Solar Cell

Generation of High Quality Microwave Signal Using Different Optoelectronic Techniques

Generation of High Stability Microwave Signal using Optoelectronic Oscillator based on Long Fiber Delay Line

Tunable Brillouin Opto-Electronic Oscillator based on double fiber loop mirror

High Quality tunable Brillouin optoelectronic oscillator

Exploring the optoelectronic properties and solar cell performance of Cs₂SnI₆-xBr_x lead-free double perovskites: Combined DFT and SCAPS Simulation

Optimization techniques for power conversion efficiency boosting in lead-free Cs₂SnI₄Br₂-based perovskite solar cell

Chapter :

Generation of High Quality Microwave Signal Using Different Optoelectronic Techniques

Other :

Simulation of Optimized High-Current Tandem Solar-Cells With Efficiency Beyond 41%.

EFFICIENT PEROVSKITE SOLAR CELL WITHOUT ELECTRON TRANSPORT LAYER.