Ola Mostafa Mohy El-Dien, B.Sc.,

Lecturer

Summary

Dr. Ola Mostafa Mohy EL-Dien obtained her bachelor's and master's Degrees from Communication and Electronics department ,AASTMT. She got her PHD in 2024 in Physics and Engineering Mathematics from Faculty of engineering-Helwan University. She has been a faculty member in Basic and Applied Science department, College of Engineering and Technology, AASTMT since 2010.

Professional Experience

2010 – 2016	Graduate teaching assistant, Basic and Applied Science Department, AASTMT.
2016 – 2024	Teaching assistant, Basic and Applied Science Department, AASTMT.
2024 – present	Lecturer, Basic and Applied Science Department, AASTMT.

Education

• **2005 – 2010**	B.Sc. in Electronics and Communication Engineering [Excellent with Honors Degree] Arab Academy for Science, Technology & Maritime Transport, Cairo, Egypt.
• **2010 – 2016**	M.Sc. Electronics and Communication Arab Academy for Science, Technology & Maritime Transport, Cairo, Egypt. [Excellent with Honors Degree]
• **2018 – 2024**	PhD. Engineering Physics College of Engineering, Helwan University, Cairo, Egypt.

Publications, Technical Reports & Presentations

1. Ola Mostafa, Hanady H. Issa, Khaled A. Shehata, Ahmed El-Bakly, “Electrical and Optical Characterization of SMOLED and PLED”, ICEENG-10, Cairo, Egypt, 2016.

2. O. Mostafa, H. Hussein Issa, M. Fedawy, W. Abbas, and N. Zidan, “Optimization of an Environmentally Sustainable HTL-Free Perovskite Solar Cell using SCAPS-1D,” Engineering Research Journal, vol. 179, no. 0, pp. 116–132, Sep. 2023, doi: https://doi.org/10.6113/JPE.2016.16.6.2192

3. O. Mostafa, N. A. Zidan, W. Abbas, H. H. Issa, Nihal Gamal, and Mostafa Fedawy, “Design and Performance Optimization of Lead-Free Perovskite Solar Cells with Enhanced Efficiency,” Mathematical modelling of engineering problems, vol. 10, no. 04, pp. 1307–1316, Aug. 2023, doi: https://doi.org/10.18280/mmep.100424.

4. O. Mostafa, Ahmed M. El-Mahalawy, Ahmed R. Wassel, N. A. Zidan, W. Abbas, H. H. Issa, Mostafa Fedawy "Integrative Role of PEDOT: PSS in Adjusting the Photo response Efficiency of Novel Reduced Graphene Quantum Dots/Silicon Heterojunction for Optoelectronic sand Solar Energy Conversion Applications", Surfaces and Interfaces, vol. 46, pp. 103946, March 2024, doi: https://doi.org/10.1016/j.surfin.2024.103946.

5. O. M. Mohyeldien, N. H. El-Amary, and A. Al Bardawil, “Sustainable design of organic solar cells utilized machine and deep learning,” *Scientific Reports*, vol. 16, no. 1, Jan. 2026, doi: https://doi.org/10.1038/s41598-026-35067-7.

6. A. Al Bardawil, O. M. Mohyeldien, and N. H. El-Amary, “Organic and Inorganic Solar Cells: Thermal Stability Mechanisms, Efficiency and Environmental Implications,” Menoufia Journal of Electronic Engineering Research, vol. 35, no. 1, pp. 156–162, Jan. 2026, doi: https://doi.org/10.21608/mjeer.2025.420304.1195.