

"CURRICULUM VITAE"

Ahmed

Abd El-Hamid Ahmed Mohamed El-Saady



PERSONAL INFORMATION

Address:	Suleiman Mohamed St., Shubra El-Khaymah, Qalyubia, Egypt.
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Official E-mail:	ahmedabdelhameed@edu.asu.edu.eg
Date of Birth:	November 23 rd , 1996.
Place of Birth:	Qalyubia.
Nationality:	Egyptian.
Marital Status:	Married.
Military Status:	Performed.

CURRENT WORK INFORMATION

University:	Ain Shams University.
Faculty:	Faculty of Education.
Department:	Department of Physics.
Address:	Al Maqrizi St., Roxy, Heliopolis, Cairo, Egypt.
Degree:	Assistant Lecturer.
General Specialty:	Physics.
Exact Specialty:	Solid state physics (Thin Membranes).
Research Fields:	▪ <i>Preparation of thin films and hetero junctions.</i> ▪ <i>Structural, Optical and Electrical properties of thin films.</i> ▪ <i>Photovoltaic properties of solar cells.</i>

Academic Profiles and Research Metrics

Name In (Research):	A. A. El-Saady
ASU Staff Profile:	14763
ASU Scholar ID:	rp11389
Web of Science Researcher ID:	AAN-8660-2021
ORCID:	0000-0003-0443-5696
Scopus ID:	58288540100
Research Gate:	A-A-El-Saady
Google Scholar:	A. A. El-Saady
H-index (Scopus):	5
Total Citations:	86
Total Research Papers:	12

EDUCATION

“Department of Physics, Faculty of Education, Ain Shams University, Cairo, Egypt.”

Bachelor of Science and Education in Physics.

19-9-2019	General Grade	Excellent with Honors and Ranked First	
	Cumulative Grade	92.56%	

General Diploma for teacher Preparation in Science (Physics).

16-12-2020	General Grade	Excellent	CGPA 3.857 (A)
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Special Diploma for teacher Preparation in Science (Solid state physics).

24-8-2021	General Grade	High Very Good	CGPA 3.667 (B+)
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Pre-Master for teacher Preparation in Science (Solid state physics).

2022	General Grade	Excellent	CGPA 3.918 (A)
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Master's degree for teacher Preparation in Science (Solid state physics).

Title	<i>Analysis of the Structural and Optoelectronic Characteristics of Nanostructured Beta Metal-Free Phthalocyanine Polymorph Thin Films for Solar Cell Applications.</i>	
20-3-2024	General Grade	Excellent

Pre-Ph.D. for teacher Preparation in Science (Solid state physics).

2025	General Grade	Excellent	CGPA 3.918 (A)
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Ph.D. Degree for teacher Preparation in Science (Solid state physics).

Title	<i>Physical Characterization of Copper(II) Semicarbazone-Pyranoquinoline Complex Thin Films.</i>		
2027			

CAREER PROGRESSION

“Department of Physics, Faculty of Education, Ain Shams University, Cairo, Egypt.”

- Demonstrator, (16/9/2020 – 4/6/2024).
- Assistant Lecturer, (4/6/2024 – Until now).

WORK EXPERIENCE

Teaching assistant for the following labs:

- Properties of Matter Lab.
- Heat Lab.
- Optics Lab.
- Vibrations and Waves Lab.
- Electricity and Magnetism Lab.
- Alternating Current Lab.
- Electronics Lab.
- Logic and Digital Circuits Lab.

SCIENTIFIC RESEARCH

- 1) El-Saady, A.A., Roushdy, N., Farag, A.A.M., *et al.* Exploring the molecular spectroscopic and electronic characterization of nanocrystalline Metal-free phthalocyanine: a DFT investigation. *Opt. Quantum Electron.* **55**, 662 (2023).
<https://doi.org/10.1007/s11082-023-04877-8>

- 2) El-Saady, A.A., El-Nahass, M.M., Abdel Basset, D.M., *et al.* Investigating the properties of nano crystalline beta metal-free phthalocyanine films: From molecules to optoelectronic applications. *Optik (Stuttg)*. **292**, 171403 (2023).
<https://doi.org/10.1016/j.ijleo.2023.171403>
- 3) El-Saady, A.A., Farag, A.A.M., Abdel Basset, D.M., *et al.* Tailoring the optoelectronic properties of nanocrystalline β -H₂Pc films via thermal annealing: Structural, morphological, and optical analyses. *Phys. B Condens. Matter*. **669**, 415339 (2023).
<https://doi.org/10.1016/J.PHYSB.2023.415339>
- 4) El-Saady, A.A., Roushdy, N., Farag, A.A.M., *et al.* Influence of Gamma-irradiation on the Structural, Morphological, and Optical Properties of β -H₂Pc Nanocrystalline Films: Implications for Optoelectronic Applications. *J. Electron. Mater.* **52**, 8001–8018 (2023).
<https://doi.org/10.1007/s11664-023-10703-4>
- 5) El-Saady, A.A., El-Nahass, M.M., Roushdy, N., *et al.* Fabrication, electrical performance analysis and photovoltaic characterization of β -H₂Pc/p-Si heterojunction for solar cell device applications. *SN Appl. Sci.* **5**, 286 (2023). <https://doi.org/10.1007/s42452-023-05506-5>
- 6) El-Saady, A.A., Farag, A.A.M., Roushdy, N. *et al.* In-depth dielectric study of bulk nanocrystalline β -H₂Pc with different biasing and photovoltaic performance of β -H₂Pc/p-Si solar cell under varied illumination. *Indian J. Phys.* **99**, 129–143 (2025).
<https://doi.org/10.1007/s12648-024-03267-4>
- 7) El-Saady, A.A., Ibrahim, M.A., El-Nahass, M.M., *et al.* Exploring a novel copper(II) semicarbazone–pyranoquinoline complex: synthesis, spectroscopic profiling, and DFT insights. *Sci. Rep.* **15**, 40355 (2025).
<https://doi.org/10.1038/s41598-025-26205-8>
- 8) El-Saady, A.A., Farag, A.A., Ibrahim, M.A., *et al.* Exploring the Structural, Optical, and electrochemical behavior of semicarbazone pyranoquinoline ligand (PQMHC) and its Cu(II) complex for efficient hydrogen peroxide sensing. *Sci. Rep.* **15**, 43587 (2025).
<https://doi.org/10.1038/s41598-025-29948-6>
- 9) El-Saady, A.A., Adly, O.M.I., Farag, A.A.M., *et al.* Correlating Structural, Morphological, and Optical Modifications of Semicarbazone Pyranoquinoline (PQMHC) and Its Cu(II) Complex for Enhanced

Photocatalytic Efficiency. *J Inorg. Organomet. Polym.* **36**(7), 4037–4055 (2026). <https://doi.org/10.1007/s10904-025-04144-1>

- 10) El-Saady, A.A., Ibrahim, M.A., El-Nahass, M.M., *et al.* Frequency and temperature-dependent dielectric and AC transport properties with magnetic behavior of nanostructured semicarbazone-pyranoquinoline (PQMHC), *J. Mater. Sci.: Mater. Electron.* **37**, 1201 (2026). <https://doi.org/10.1007/s10854-026-17645-7>
- 11) El-Saady, A.A., Ibrahim, M.A., Mansour, A.M., *et al.* Dielectric and charge transport behavior of a thermally stable semicarbazone pyranoquinoline copper complex with structural, morphological, and magnetic characterization, *Discov. Mater.* **6**, 157 (2026). <https://doi.org/10.1007/s43939-026-00642-2>
- 12) El-Saady, A. A., Ibrahim, M. A., El-Nahass, M. M. *et al.* Thermally evaporated Copper(II)–semicarbazone pyranoquinoline thin films for amorphous nanostructured photodiode applications. *Opt. Mater. (Amst)*. **178**, 118265 (2026). <https://doi.org/10.1016/j.optmat.2026.118265>

LANGUAGES

Native Language: Arabic, Advanced level in English.

TRAINING COURSES

- ✓ ICDL.
- ✓ Effective teaching.
- ✓ Scientific writing.
- ✓ Scholarly Publishing in Indexed Journals.
- ✓ TELP.
- ✓ Presentation Skills.
- ✓ Effective Communication Skills.
- ✓ Employing important Apps of Microsoft 365 in eLearning.
- ✓ Employing important Apps of Microsoft 365 in eLearning Advanced level.
- ✓ Legal aspects of university work for the assistant staff.

CONFERENCES

- The 9th Annual Ain Shams University International Conference "The Fourth Generation of Universities between Reality and Aspiration" (2021).

- The 11th Annual Ain Shams University International Conference "Knowledge Economy ... for Better Life" (2023).
- The 13th Annual Ain Shams University International Conference "Ain Shams: 75 Years of Excellence and Leadership" (2025).

WORKSHOPS

- ❖ Managing references using the EndNote program (2022).
- ❖ Using statistical analysis software in scientific research (2025).

REFERENCES

Available upon request.

