



Dr. Ali Abdullah Ahmad Al-Muntaser

Physics Department- Faculty of Education and Applied Sciences at Arhab –
Sana'a University - Yemen

My research interests include physical properties of nanostructured semiconductor thin films and their applications in solar cells and optoelectronic devices, including dye thin films, polymer thin films.

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SKILLS

- Teaching
- Scientific Research
- Generate publications of international standard
- Use of computer in teaching

LANGUAGES

- Arabic
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- English
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RESEARCH INTERESTS

- Renewable Energy
- Thin Films and Nanotechnology
- Semiconductor Physics.
- Processing and characterization of nanomaterials.
- Hybrid and organic solar cells.
- Characterization of organic and polymer thin films.

PUBLICATION SUMMARY

- Number of Publications: **8**
- RG Factor: **10.53**
- h-index: **6**

EDUCATION

- Ph.D. (2020) Physics (Experimental physics), Department, Faculty of Science, Mansoura University, Mansoura. Egypt, with thesis title: “Structural and Physical Studies of Nanostructured Organic Semiconductor Thin Films and Their Applications in Solar Cells”.
- M.Sc. (2016) Physics (Experimental physics), Department, Faculty of Science, Mansoura University, Mansoura. Egypt, with thesis title: “Spectroscopic and Physical Studies of Polymeric Blend Doped with Lithium Salt”.
- B.Sc. (2008) Physics Department, Faculty of Education and Applied Sciences at Arhab, Sana'a University, Sana'a, Yemen.
- TOEFL in English Language from AMIDEAST with score 537 degree.
- English and Computer Courses.

WORK EXPERIENCE

- Lecturer, (2016 and so far) Physics Department, Faculty of Education and Applied Sciences at Arhab, Sana'a University, Sana'a, Yemen.
- Assistant Lecturer, (2010-2014) Physics Department, Faculty of Education and Applied Sciences at Arhab, Sana'a University, Sana'a, Yemen.
- Volunteered to work part time (2008-2010) Physics Department, Faculty of Education, Science and Arts at Marib, Sana'a University, Marib, Yemen.

AWARDS

- President of the Republic Award for Scientific Excellence - Sana'a University - Yemen 2009
- Mansoura University Award for Scientific Excellence - Egypt 2015

LIST OF PUBLICATION (REFERRED INTERNATIONAL JOURNALS)

- Al-Muntaser, A. A.,** El-Nahass, M. M., & Saad, H. A. (2020). *DFT calculation and experimental study on electronic structure and optical properties of 7-Amino-4-oxo-3-(2-(2-thienyl) vinyl)-4H, 8H-[1, 2, 4] triazino [3, 4-b][1, 3, 4] thiadiazine-8-carbonitrile thin films.* Optik, 220, 165199. Doi.org/10.1016/j.ijleo.2020.165199
- Al-Muntaser, A. A.,** Abdelghany, A. M., Abdelrazek, E. M., & Elshahawy, A. G. (2019). *Enhancement of optical and electrical properties of PVC/PMMA blend films doped with Li₄Ti₅O₁₂ nanoparticles.* Journal of Materials Research and Technology, 9(1), 789-797, <https://doi.org/10.1016/j.jmrt.2019.11.019>.
- Al-Muntaser, A. A.,** El-Nahass, M. M., Oraby, A. H., & Meikhail, M. S. (2019). *Influence of gamma irradiation on linear and nonlinear optical properties of nanocrystalline manganese (III) chloride tetraphenylporphine thin films.* Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 220, 117112., DOI:10.1016/j.saa.2019.05.017
- Morsi, M. A., Rajeh, A., & **Al-Muntaser, A. A.** (2019). *Reinforcement of the optical, thermal and electrical properties of PEO based on MWCNTs/Au hybrid fillers: Nanodielectric materials for organoelectronic devices.* Composites Part B: Engineering, 106957, DOI:10.1016/j.compositesb.2019.106957
- Al-Muntaser, A. A.,** El-Nahass, M. M., Oraby, A. H., Meikhail, M. S., & Zeyada, H. M. (2018). *Fabrication and transport mechanisms of 5, 10, 15, 20-tetraphenyl-21H, 23H-porphine manganese (III) chloride/n-type silicon heterojunction solar cell.* Journal of Materials Science: Materials in Electronics, 29(13), 10911-10920., DOI:10.1007/s10854-018-9169-y
- Al-Muntaser, A. A.,** El-Nahass, M. M., Oraby, A. H., Meikhail, M. S., & Zeyada, H. M. (2018). *Structural and optical characterization of thermally evaporated nanocrystalline 5, 10, 15, 20-tetraphenyl-21H, 23H-porphine manganese (III) chloride thin films.* Optik, 167, 204-217., DOI:10.1016/j.ijleo.2018.04.041
- Meikhail, M. S., Oraby, A. H., El-Nahass, M. M., Zeyada, H. M., & **Al-Muntaser, A. A.** (2018). *Electrical conduction mechanism and dielectric characterization of MnTPPCL thin films.* Physica B: Condensed Matter, 539, 1-7., DOI:10.1016/j.physb.2018.03.045
- Abdelghany, A. M., Abdelrazek, E. M., ElShahawy, A., & **Al-Muntaser, A. A.** (2015). *FTIR and UV/Vis. Spectroscopy: A Key for Miscibility Investigation of PVC/PMMA Polymer Blend.* Middle East Journal of Applied Sciences, 5(4), 36-44.

PEER REVIEW SUMMARY

Performed 12 reviews for journals including:

- 5-Journal of Materials Science: Materials in Electronics
- 1-International Journal of Physical Sciences
- 1-Journal of Engineering and Technology Research
- 1- Optical Materials Journal
- 3- Journal of Inorganic and Organometallic Polymers and Materials
- 1- Journal of Alloys and Compounds

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SEMINARS AND CONFERENCES

- The 6th International Conference on Optical Spectroscopy Laser & Their Applications (07-09 April 2015), NRC, Cairo, Egypt (Oral Presentation)
- The sixth scientific symposium for young researchers (13-14 March 2016), faculty of science, Mansoura university, Egypt (Oral presentation)
- The scientific forum of challenges in physics and energy (13-15 April 2016), faculty of science, Mansoura university, Egypt (poster presentation)
- The first scientific conference for researches and innovations of international students in Egyptian universities (18-19 April 2016), Mansoura university, Egypt (Oral presentation)
- The 7th International Conference on Optical Spectroscopy Laser & Their Applications (18-20 October 2016), NRC, Cairo, Egypt (Oral Presentation)
- Nanotechnology Revolution of Scientific Research (Knowledge, Challenges, Application) 15-November 2016, NRC, Cairo, Egypt
- The 16th Arab International conference on materials science (Materials and Society) 3-5 December 2016, Alexandria, Egypt
- Workshop on the Objective tests (12 December 2016) - Faculty of Science - Mansoura University – Egypt
- The seventh scientific symposium for young researcher organized by Postgraduate Studies and Research Sector, (23 April, 2017) Faculty of Science - Mansoura University – Egypt (Oral presentation)
- Workshop on some research units at the Mansoura university and the extent of its utilization (24 April, 2017) Mansoura University – Egypt
- The 1st Mansoura conference of postgraduate research in physics, (18-20 September, 2018) Faculty of Science - Mansoura University – Egypt (Poster presentation) university.
- The 8th scientific symposium for young researcher organized by Postgraduate Studies and Research Sector, (23 April, 2018) Faculty of Science - Mansoura University – Egypt (Oral presentation)

- The 1st international students forum at the Egyptian universities, (27-29 January, 2019) Mansoura University – Egypt (Poster presentation) university.
- The 9th scientific symposium for young researcher organized by Postgraduate Studies and Research Sector, (3 March, 2020) Faculty of Science - Mansoura University – Egypt (Poster presentation).

HUMAN DEVELOPMENT COURSES

- Training Program (theoretical and applied) entitled, Entrepreneurship Innovation Requirements, (22/1/2018-3/5/2018) Mansoura University – Egypt.

TEACHING EXPERIENCE

Experience in teaching the following subjects:

- Solid State Physics
- Mechanics
- Electronics
- Vibrations and Waves
- Electrical Circuits
- Practical Physics
- Physical Optics
- Semiconductor Physics

RESEARCH SKILLS

- Conducting, writing and publishing scientific research in my field.
- I can work very well on the program of drawing and analyzing scientific data (Origin program).
- I can work very well on the program of electronic structure modelling (Gaussian program).

IMPORTANT LINKS

 <https://scholar.google.com/eg/citations?user=I05YshQAAAAJ&hl=ar>

 <https://orcid.org/0000-0003-0679-4000>

 https://www.researchgate.net/profile/Ali_Al-Muntaser2

 <https://www.scopus.com/authid/detail.uri?authorId=57201432001>