

Curriculum Vitae (CV)

Mohamed Abdel-Aziz Attallah



Personal Information:

Academic Rank: Assistant Professor

Department: Basic Science Department

Specialization: Solid State Physics

Position: Assistant Professor

Google Scholar: <https://scholar.google.com.eg/citations?hl=en&user=IhCTShkAAAAJ>

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Solid State Physics	Al-Azhar University	2014
M.Sc.	Solid State Physics	Al-Azhar University	2011
B.Sc.	Special Physics	Al-Azhar University	2005

Academic Experience:

Institution: Higher Technological Institute, 10th of Ramadan City.

Rank: Assistant Professor

Dates: 2014

Institution: Higher Technological Institute, 10th of Ramadan City.

Rank: Research Assistant (PhD student)

Dates: 2011

Institution: Higher Technological Institute, 10th of Ramadan City.

Rank: Teaching Assistant

Dates: 2007

Institution: Al-Azhar University.

Rank: Teaching Assistant

Dates: 2006

Research interests:

- Solid State Physics
- Nanoscience
- Molecular modelling

Publications:

- Mohamed El Okr, **Mohamed Attalla** and Medhat Ibrahim, “Interaction of Small Molecules with Diatomic ZnO: Density Functional Theory Investigation” Journal of Sensor Letters, Vol. 9, 1750 - 1754, (2011).
- Hanan Elhaesa, **Mohamed Attallah**, Yahia Elbashar, Ayser Al-Alousi, Mohamed El-Okr and Medhat Ibrahim, “Modeling and Optical Properties of $P_2O_5 - ZnO - CaO - Na_2O$ Glasses Doped with Copper Oxide” J. Comput. Theor. Nanosci, Vol. 11, 2079 – 2084, (2014).
- Hanan Elhaes, **Mohamed Attallah**, Yahia Elbashar, Mohamed El-Okr, Medhat Ibrahim, “Application of Cu_2O -doped phosphate glasses for bandpass filter” Journal of Physica B, Vol. 449, 251 – 254, (2014).
- Hanan Elhaes, **Mohamed Attallah**, Mohamed El-Okr, Mahmud Ibrahim and Medhat Ibrahim, “The effect of some transition metal oxide on phosphate glass” Journal of Quantum matter, Vol. 4, 123 – 126, (2015).
- **M. Attallah**, M. Farouk, A. El-Korashy, M. ElOkr, “Copper doped Phosphate Glass as an Optical Bandpass filter” Journal of Silicon, Vol. 10, 547 – 554, (2018).
- M. Farouk, **M. Attallah**, K. Abdallauh, Z.M. Abd El-Fattah, “Influence of Different Alkaline Oxide Modifiers on VO^{2+} Doped Zinc Borate Glasses” Journal of Non-Crystalline Solids, Vol.523, 119607, (2019).
- M. Farouk, Dhia-Aldin Slibi, Z. M. Abd El-Fattah, **M. Atallah**, M. A. El-Sherbiny, Moukhtar A. Hassan, “Effect of SiO_2 Addition on Chromium Transitions in Borate Glasses” Journal of Silicon, Vol. 13, 3003–3010, (2021).
- Dhia-Aldin Slibi, Moukhtar Hassan, Zakaria M. Abd El-Fattah, **M. Atallah**, M. A. El-Sherbiny, M. Farouk, “Optical transitions from hexavalent chromium in lithium-borate glasses” Journal of Optical and Quantum Electronics, 53:499, (2021).
- Noori S. Anad, · Zakaria M. Abd El-Fattah, **M. Attallah**, Hanaa M. Ahmed, · M. M. El-Okr, H. H. El-Bahnasawy, “Precise determination of optical band gap in Cr-doped semiconductor nanowires” Journal of Optical and Quantum Electronics, 54:76, (2022).
- Mohamed Ehab, Elsayed Salama, Ahmed Ashour, **Mohamed Attallah**, Hosam M. Saleh, “Optical Properties and Gamma Radiation Shielding Capability of Transparent Barium Borosilicate Glass Composite” Journal of Sustainability, 14, 13298, (2022).

- Hanaa. M. Ahmed, Zakaria M. Abd El-Fattah, Noori. S. Anad, Mohamed Attallah, Hany. H. El-Bahnasawy, “Thermo-mechanical and opto-electrical study of Cr-doped-ZnO-based polyvinyl chloride nanocomposites” Journal of Materials Science: Materials in Electronics ,34:113, (2023).
- M. Attallah, M. Farouk, A. Samir, “Optimize the structural, optical, and thermal properties of Nd³⁺ ions doped boro-aluminum-tungsten glass” Journal of Ceramics International, 50, 9528–9534, (2024).

Conference:

- The 5th National Conference on Optical Spectroscopy, Laser & Their Applications 24 - 27 March 2014, NRC, Cairo, Egypt.
- The XXXI International Conference Eg-MRS 6 – 9 January 2015, Hurghada, Egypt.
- The 32nd International Conference on Materials Science and Applications 6 – 9 January 2016, Aswan-Luxor, Egypt.
- The 7th International Conference on Optical Spectroscopy, Laser & Their Applications 18 - 20 October 2016, NRC, Cairo, Egypt.
- The 1st International Conference on Molecular Modeling and Spectroscopy 19 – 22 February 2019, National Research Center, Cairo, Egypt.

Courses taught

- Modern Physics.
- Biomedical Physics.
- Electricity and magnetism.
- Properties of matter and Thermodynamics.