

Curriculum Vitae (CV)

Full Name

Ahmed Maarouf Hassan Deghady



Personal Information:

Academic Rank: Associate Professor

Department: Basic Science

Specialization: Physics

Position: Basic science Department, Higher Technological Institute

Google Scholar: <https://scholar.google.com.eg/citations?hl=ar&user=uNZ74ZMAAAAJ>

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Nuclear Physics	Ain Shams University	2013
M.Sc.	Nuclear Physics	Ain Shams University	2008
B.Sc.	Physics	Ain Shams University	2004

Academic Experience:

Institution: Higher Technological Institute 10th of Ramadan city -Egypt

Rank: Associate Professor

Dates: 2024: Till now

Institution: Higher Technological Institute 10th of Ramadan city -Egypt

Rank: Assistant Professor

Dates: 2014: 2024

Institution: Higher Technological Institute 10th of Ramadan city -Egypt

Rank: Research Assistant (PhD student)

Dates: 2008 : 2014

Institution: Higher Technological Institute 10th of Ramadan city -Egypt

Rank: Teaching Assistant

Dates: 2004 : 2008

Research interests:

- Material Science
- Nuclear Physics

Publications:

- "Investigations on Alpha Track Profiles For Am-241 And Rn-222 Using SSNTD CR-39 " H.A.S. Aly; A. Nada; T. M. Hegazy; H.A. Abel-Ghany; I.E. El Aassy; **A.M Deghady**; Isotope and Radiation Research; ISSN 0021-1907; v. 45(2); p. 309-319 (2013).
- "Radionuclides Distribution and Radon Activity Concentrations and their Impact for Different Samples Collected from Sinai-Egypt" A. Nada, H. A. S. Aly, Ibrahim E. El Aassy, T. M. Hegazy, H.A.Abel-Ghany, **A. M. Deghady**. Journal of Applied Sciences Research Vol. 9 (10) October, (2013).
- "Influence of small addition of antimony (Sb) on thermal behavior, microstructural and tensile properties of Sn-9.0Zn-0.5Al Pb-free solder alloy" A.B. El Basaty **A.M. Deghady** E.A. Eid Materials Science and Engineering: A. V. (701), p. 245-253 (2017).
- "Enhanced microstructural, thermal and tensile characteristics of heat treated Sn-5.0Sb-0.3Cu (SSC-503) Pb-free solder alloy under high pressure" E.A. Eid **A.M. Deghady**, A.N. Fouda. Materials Science and Engineering: A. V. (743), p. 726-732 (2019).
- "Influence of nano-metric Al_2O_3 particles addition on thermal behavior, microstructural and tensile characteristics of hypoeutectic Sn-5.0Zn0.3Cu Pb-free solder alloy" E. A. Eid, A. B. El-Basaty, **A. M. Deghady**, Saleh Kaytbay, Abbass Nassar. Journal of Materials Science: Materials in Electronics, V (30), p 4326–35 (2019).
- Influence of eumelanin and gamma irradiation on ZnO nanocomposite properties. Radiat. B. A. El-Badry, N. Madkhali, and **A. M. Deghady**. Phys. Chem., vol. 191, p. 109845, Feb. 2022, doi: 10.1016/J.RADPHYSICHEM.2021.109845.
- Density Functional Theory and Molecular Docking Investigations of the Chemical and Antibacterial Activities for 1-(4-Hydroxyphenyl)-3-phenylprop-2-en-1-one. **A. M. Deghady**, Rageh K. Hussein, Abdulrahman G. Alhamzani and Abeer Mera. molecules, vol. 26, no. 12, 202.
- Effect of 0.3 wt% TiO_2 nanoparticles on the thermal, structural, and mechanical properties of Sn3.8Ag0.7 Cu1.0Zn solder alloy. **A M Deghady**, A Tayel, A Saleh and A B El Basaty. 2022 Phys. Scr. 97 105709.
- The doping of SZC solders with bismuth to improve their thermal and tensile characteristics for microelectronic applications. **A. M. Deghady**, M. M. Fadel, and E. A. Eid. 2022 J. Mater. Sci. Mater. Electron., 33 4831–4846.
- Covalent Inhibition for SARS-CoV-2 M pro via Zinc Ion Transported by Hydroxychloroquine: Investigated by DFT, ADMET and Molecular Docking. Rageh K. Hussein, Ahmed M. El-Khayatt, Ahmed M. Alkaoud, Ghada A. Khouqeer, **Ahmed M. Deghady**. 2023 J Biointerface Res Appl Chem., 13 5 460.

Teaching Experience:

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|--|----------------------------|
| • Demonstrator at Basic Science Department, Faculty of Industrial Education, Helwan University | 2005-2006 |
| • Demonstrator at Basic Science Department, Faculty of Engineering, Benha University [Part time] | 2006 -2008 |
| • Demonstrator at Basic Science Department, Higher Technological Institute 10 th of Ramadan City. | 2004 -2008 |
| • Demonstrator at Basics Science Department, Faculty of Industrial Education, Helwan University [Part time] | 2004 -2006 |
| • Teacher Assistant, Basic Science Department, Higher Technological Institute 10 th of Ramadan City. | 2008–2013 |
| • Teacher of physics, Basic Science Department, Higher Technological Institute 10 th of Ramadan City. | 2013-2024 |
| • Associat Proffesor of physics, Basic Science Department, Higher Technological Institute 10 th of Ramadan City | 2013-2024
2024-Till Now |

Courses taught

- Properties of matter, Heat and Thermodynamics.
- Electricity, Magnetism and Optics.
- Modern physics and Material Science.