

Curriculum Vitae (CV)

Full Name

Ahmed Maarouf Hassan Deghady



Personal Information:

Academic Rank: Assistant 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 10thof Ramadan city -Egypt

Rank: Assistant Professor

Dates: 2014: Till now

Institution: Higher Technological Institute 10thof Ramadan city -Egypt

Rank: Research Assistant (PhD student)

Dates: 2008 : 2014

Institution: Higher Technological Institute 10thof 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 Al₂O₃ 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. Alhamzan. molecules, vol. 26, no. 12, 202.
- Effect of 0.3 wt% TiO₂ nanoparticles on the thermal, structural, and mechanical properties of Sn_{3.8}Ag_{0.7} Cu_{1.0}Zn 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.

Teaching Experience:

- 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 10th 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 10th of Ramadan City. 2008–2013
- Teacher of physics, Basic Science Department, Higher Technological Institute 10th of Ramadan City. 2013-till now

Courses taught

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