

Curriculum Vitae (CV)

Full Name

Mohamed Ragab Abdou Mohamed



Personal Information:

Academic Rank: Assistant Professor

Department: Basic Science

Specialization: Physics

Position: Basic science Department, Higher Technological Institute

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Material Physics	Faculty of Science, Zagazig University	2015
M.Sc.	Nuclear Physics	Faculty of Science, Zagazig University	2013
B.Sc.	Physics	Faculty of Science, Zagazig University	2007

Academic Experience:

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

Rank: Assistant Professor

Dates: 2015: Till now

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

Rank: Research Assistant (PhD student)

Dates: 2008 : 2015

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

Rank: Teaching Assistant

Dates: 2008

Research interests:

- Material Science
- Nuclear Physics

Publications:

- [1] Development of ESR Dosimeters for possible use in radiation processing application.
- [2] A.A. El-Daly, A.E. Hammad, G.S.Al-Ganainy, **M.Ragab**, Influence of Zn addition on the microstructure , melt properties and creep behavior flow Ag-content Sn–Ag–Cu lead-free solders. Mater SciEng A 2014;608:138-130.
- [3] A.A. El-Daly, A.E. Hammad, G.S.Al-Ganainy, **M.Ragab**, Properties enhancement of low Ag-content Sn–Ag–Cu lead-free solders containing small amount of Zn. J Alloys Compd 2014; 614: 20-28.
- [4] A.A. El-Daly, K.M. Zohdy, and **M. Ragab**, "Corrosion and Electrochemical Behavior of Sn-2Ag-0.5Cu Lead-Free Solders Solidified with Magnet Stirring," [Journal of Materials Engineering and Performance](#), vol. 28, pp. 4680–4692, 2019, doi.org/10.1007/s11665-019-04227-4.
- [5] A. E. Hammad, and **M. Ragab**, "Advancement solidification microstructure and mechanical properties of Sn–2.0Ag–0.5Cu alloy by applying a rotary magnetic field," **JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS**, vol. 30, pp. 18838–18847, 2019, doi.org/10.1007/s10854-019-02240-w.
- [6] E. A. Eid, and **M. Ragab**, "Effect of individual and hybrid additions of Al₂O₃ NP and CNTs on the mechanical strengthening of aluminum-bronze alloy," **SN Applied Sciences** ,no. 186, 2020, doi.org/10.1007/s42452-020-1987-x.
- [7] A. E. Hammad, and **M. Ragab**, "Achieving microstructure refinement and superior mechanical performance of Sn-2.0Ag-0.5Cu-2.0Zn (SACZ) solder alloy with rotary magnetic field," Microelectronics Reliability, vol.113, 2020, doi.org/10.1016/j.microrel.2020.113932.
- [8] A. E. Hammad, Sara El-Molla, A F Abd El-Rehim, and **M. Ragab**, "Progress on microstructure features and creep properties of prospective Tin-Silver-Zinc alloy using a magnetic field," **Materials Research Express**, vol. 8, no. 8, 2021, doi.org/10.1088/2053-1591/ac1c35.
- [9] A. E. Hammad, Sara El-Molla, and **M. Ragab**, "Impact of rotating magnetic field on the microstructure, thermal properties, and creep behavior during the solidification of Sn–2.0Ag–0.5Cu solder alloy," [Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications](#), vol. 237, 2022, DOI: 10.1177/14644207221111453.
- [10] A. E. Hammad, Sara El-Molla, and **M. Ragab**, "Optimization of creep and thermal features of the Sn-Ag-Cu-Zn alloy by the magnetic field," Microelectronics Reliability, vol. 143, 2023, doi.org/10.1016/j.microrel.2023.114951.
- [11] **M. Ragab**, and Mahmoud A. Bedair, "The effect of permanent magnet stirring on the corrosion resistance of Sn-2.0Ag-0.5Cu-2Zn solder alloys in NaCl solution," **Materials Chemistry and Physics**, vol. 302, 2023, doi.org/10.1016/j.matchemphys.2023.127774.

Teaching Experience:

- Demonstrator at Basic Science Department, Higher Technological Institute 10th of Ramadan City. 2008
- Teacher Assistant, Basic Science Department, Higher Technological Institute 10th of Ramadan City. 2013–2015
- Teacher of physics, Basic Science Department, Higher Technological Institute 10th of Ramadan City. 2015-till now

Courses taught

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