

Curriculum Vitae (C.V.)

Eid Abd El-Baset Eid El-Sayed



Personal Information:

Academic Rank: Professor -Physics of Materials Science

Department: Basic Science Department

Specialization: Engineering Physics

Position: Head of Basic Science Department, Physics Lecturer

Web of Science Researcher ID: GRJ-4899-2022

Google Scholar: <https://scholar.google.com/citations?user=OTH3DFIAAAAJ&hl=en>

Research Gate: <https://www.researchgate.net/profile/Ea-Eid>

ORCID Record: <https://orcid.org/0000-0002-2194-222X>

Scopus ID: 57197660414

Email eid.abdelbast @hti.edu.eg; dr_eid_hti@yahoo.com

Mobile/WhatsApp: +20/ 01091634900

Education:

Degree	Discipline	Institution	Year
Ph.D.	Solid state Physics	Science Faculty- Benha University	2008
M.Sc.	Solid state physics	Science Faculty -Zagazig University	1999
B.Sc.	Special Physics	Science Faculty -Zagazig University	1994

Academic Experience:

Institution: Higher Technological Institute

Rank: Professor

Dates: 2022

Institution: Higher Technological Institute

Rank: Associate Professor

Dates: 2017

Institution: Higher Technological Institute

Rank: Assistant Professor

Dates: 2009

Institution: Higher Technological Institute

Rank: Research Assistant (PhD student)

Dates: 2002

Institution: Suze canal university

Rank: Teaching Assistant

Dates: 1997

Research interests:

- Material science Physics
- Polymer Physics
- Radiation Physics

Publications:

1- A. N. Fouda, El-Shazly M. Duraia, E.A. Eid "Ultra-smooth and lattice relaxed ZnO thin films" Superlattices and Microstructures 73 (2014) 268–274
2- E.A. Eid , A. N. Fouda, "Influence of homo buffer layer thickness on the quality of ZnO epilayers" Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy , 149 (2015) 127–13
3- A.N. Fouda, E.A. Eid , "Influence of ZnO nano-particles addition on thermal analysis microstructure evolution and tensile behavior of Sn–5.0 wt% Sb–0.5 wt% Cu lead-free solder alloy" Materials Science & Engineering A , 632 (2015) 82–87
4- E.A. Eid , A. N. Fouda, El-Shazly M. Duraia; "Effect of adding 0.5 wt% ZnO nanoparticles, temperature and strain rate on tensile properties of Sn-5.0 wt% Sb-0.5 wt.% Cu (SSC505) lead free solder alloy" Materials Science & Engineering A , 657 (2016) 104–114
5- A. N. Fouda, A. B. El Basaty, E.A. Eid , "Photo-Response of Functionalized Self-Assembled Graphene Oxide on Zinc Oxide Heterostructure to UV Illumination" Nanoscale Research Letters , 11:13(2016) 1-8
6- M.A. Ahmed, A.A. Azab, E.H. El-Khawas, E. Abd EL-Baset , "Characterization and Transport Properties of Mixed Ferrite System $Mn_{1-x}Cu_xFe_2O_4$; $0.0 \leq x \leq 0.7$ " Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry , 46(2016) 376–384.
7- A.N. Fouda , M. Marzook, H.M. Abd El-Khalek, S. Ahmed, E.A. Eid , A.B. El Basaty "Structural and Optical Characterization of Chemically Deposited PbS Thin Films" Silicon (2017) 9: 9–80 816
8- A.B. El Basaty, , A.M. Deghady, E.A. Eid , "Influence of small addition of antimony (Sb) on thermal behavior, microstructural and tensile properties of Sn-9.0Zn-0.5Al Pb-free solder alloy" Materials Science & Engineering A ; 701 (2017) 245–253
9- E.A. Eid , M. Ramdan, A.B. El Basaty, "Enhancing the Creep Resistance of Sn-9.0Zn-0.5Al Lead-Free Solder Alloy by Small Additions of Sb Element" Engineering ; (2018) 2018, 10, 21-34
10- E. A. Eid , A.M. Deghady, A.N. Fouda "Enhanced microstructural, thermal, and tensile characteristics of heat-treated Sn-5.0Sb-0.3Cu (SSC-503) Pb-free solder alloy under

high pressure.” Materials Science & Engineering A ; 743 (2019) 726–732
11- E. A. Eid , A. B. El-Basaty, A. M. Deghady, Saleh Kaytbay, Abbass Nassar “Influence of Nano-Metric Al ₂ O ₃ Particles Addition on Thermal Behavior, Microstructural and Tensile Characteristics of Hypoeutectic Sn-5.0Zn-0.3Cu Pb-Free Solder Alloy” Journal of Materials Science: Materials in Electronics (2019) 30:4326–4335
12- E. A. Eid , E. H. El-Khawas, Ashraf S. Abd-Elrahman. “Impact of Sb additives on solidification performance, microstructure enhancement and tensile characteristics of Sn-6.5Zn-0.3Cu Pb-Free Solder Alloy” Journal of Materials Science: Materials in Electronics ; (2019) 30:6507–6518
13- A.N. Fouda, E.A. Eid ; “Effect of high temperature annealing on epitaxially grown Ru silicide thin films” Silicon ; (2020) 12:2387–2393
14- N. Fouda, E. A. Eid ; “Selective growth of semiconducting silicide phase based on the growth parameters” Silicon , 12:2497–2501
15- E. A. Eid , M. Ragab “Synergetic Reinforcement of Cu-11.0 wt.% Al Alloy with Al ₂ O ₃ Nano-Sized Particles and Carbon Nanotubes CNTs” Modern Approaches on Material Science (2019) (2):186-194
16- E. A. Eid , M. Ragab “Effect of individual and hybrid additions of Al ₂ O ₃ NP and CNTs on the mechanical strengthening of aluminum-bronze alloy” SN Applied Sciences (2020) 2:186
17- M. M. Saadawy, E. A. Eid ; “Preparation and electrochemical behavior of graphene-oxide/ zinc phosphate composite coating on as-cast Al-Zn-Mg alloy” Synthetic Metals 259 (2020): 116236
18- E. A. Eid , M. M. Sadawy; “Role of Effective Strain During Cold Rolling Deformation on Mechanical Characteristics of AISI 304 Steel” Metals and Materials International (2021) 27:4536–454
19- A. Reda , A. A. Eldaly , E.A. Eid “Neutron/gamma radiation shielding characteristics and physical properties of (97.3-x)Pb-x Cd–2.7Ag alloys for nuclear radiation application.” Physica Scripta ; 96 (2021) 125321
20- E.A. Eid , M. M. Sadawy, A. M. Reda; “Computing the dynamic friction coefficient and evaluation of radiation shielding performance for AISI 304 stainless steel.” Materials Chemistry and Physics ; 277 (2022) 125446
21- A. N. Fouda, E.A. Eid ; “Role of graphene oxide (GO) for enhancing the solidification rate and mechanical properties of Sn–6.5Zn–0.4 wt.% Cu Pb-free solder alloy.” Journal of Materials Science: Materials in Electronics (2021) 27:4536–4549

22- A. M. Reda ,W. A. Kansouh and **E. A. Eid**; Effect of Fe₂O₃/Al addition on the neutron shielding, microstructure, thermal, and mechanical properties of HDPE composites” **Phys. Scr.** 97 (2022) 065301 ; <https://doi.org/10.1088/1402-4896/ac690e>

23- A. M. Deghady , M. M. Fadel, and **E. A. Eid**; “The doping of SZC solders with bismuth to improve their thermal and tensile characteristics for microelectronic applications.” **Journal of Materials Science: Materials in Electronics**; 33, pages4831–4846 (2022); <https://doi.org/10.1007/s10854-021-07672-x>

24- Saad M. Fayed, Dongxu Chen a, Shengli Li, M.M. Sadawy, **E.A. Eid**; “Microstructure, mechanical, and electrochemical properties of Si/DLC coating deposited on 2024-T3 Al alloy.” **Journal of Alloys and Compounds**; 966 (2023) 171452 ; <https://doi.org/10.1016/j.jallcom.2023.171452>

Teaching Experience:

Courses taught.

- Solid state physics
- Materials Science physics
- Smart materials
- Physics of properties of matter
- Electricity and magnetism
- Physics of fluids
- Metallurgy physics
- Physics of wave and sound
- Physics of thermodynamic