

CV

Name: Ahmed Mohamed *Abd Elfatah Abo Arais*

Academic Degrees:

1-B.Sc in Physics (1981) Faculty of Science Menofia University, Egypt.

2- M.Sc in Solid State Physics (1990) Faculty of Science Menofia University, Egypt.

3- Ph.D in Solid State Physics (1995) Channel System Egypt-Germany.

4- Associate Prof. (2005) Faculty of Electronic Engineering Menouf, Egypt.

Nationality: Egyptian

Age: 61 Years

Marital Status: Married-3Kids

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2- Al-Ghad International College of Health Science Al- Riyadh-Mails, P.OBox2174, Code11451 Riyadh, King Saudi Arabia

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List of Scientific Publications:

- 1- Thermal conductivity of ZnO phosphate glass J of Mater Sci, Vol.. 27(1992) PP307-312.**
- 2- Thermal conductivity .of Bismuth Phosphate glasses .Ind .j of Tech.(1989) PP498-500.**
- 3- Thermoelectric power of vitreous system, Scie J Menofia Univ .VOL .III(1989)**
- 4- The effect of low Si concentration on high- Tc Y-Ba-Cu-O,J. of Materials Science.Vol.30(1995) PP3730-3733.**
- 5-Charged and neutral defects in a-Si:H determined from improved analysis of the constant photocurrent method, Solar energy materials and solar cells, Vol41/42 (1996)PP529-536**
- 6- Towards Experimental realization of the superconductor semiconductor .Interface in YBCO-Si Surface Review and Lett.Vol.7, Nos.1&2(2000) PP103-108.**
- 7- One-dimensional oxygen diffusion in Y1Ba2Cu3O7superconductor,Third Mansoura International Engineering Conference, April 11-13(2000), Vol,3PPp163-171.**
- 8- Gap-state defects in a-SiC:H layers, Al Azhar Eng .Sixth Intern .Conf. 1-4 September(2000)Vol.9.,PP416-430.**
- 9- Metal-Semiconductor transition high-Tc Superconductor, The 40 Science Week in syria,4-9 November (2000).**
- 10- The effect of low Ge concentration, on high- Tc YBCO, International Conf. On Mathematics and Nuclear Physics and Applied .in the 21st Century (ICMNPA) Cairo Egypt 8-13 March (2003)**
- 11-The Physical Properties of YBCOGe Composite System Ain Shams Engineering Journal, Vol.39 No.1, March31, 2004,PP.955-968.**

- 12-New Phases Separation by X-ray and Infra-Red Analysis of Y-Ba-Cu-Ge-O Superconductors, Turkish Journal of physics, Vol.29, No.1, 2005, PP.33-41**
- 13-Effect of Eu addition on the Superconducting properties of YBCO System, The XXV Conference On Solid State Physics and Material Science, 6-10 March, 2005, Luxor-Upper EGYPT.**
- 14-Glass-crystal transformation of amorphous Ge-Sb-Se films, Alexandria Engineering Journal, Vol.47 (2008) No.1 PP.139-145**
- 15-The influence of Zn^{+2} ions substitution on the microstructure and transport properties of Mn-Zn nanoferrites, Materials science and applications, (2014) Vol.5 PP.932-942**
- 16-- A.Abo-Arais
Gd³⁺ ions doping effect on the microstructure and electrical properties of $Mn_{0.9}Zn_{0.1}Ni_{0.05}Ti_{0.05}Gd_tFe_{1.9-t}O_4$ ferrite.
International Journal of Scientific and Engineering Research Vol.6 , Issue10 (2016) 1797-1809.**
- 17-- A.Abo-Arais
Structural, electrical and thermal analysis of $Y_{1-x}Eu_xBa_2Cu_3O_{7-\delta}$ superconductors.
International Journal of Advanced Research, Vol.5, Issue2 (2017) 46-54.**
- 18--- A.Abo-Arais, *K.E.Rady and M.M.Shams*
Electrical and Dielectric Properties of Ni-Ti Equiatomic Co-Substituted Mn-Zn Ferrites.
International Conference on Physics, Materials Sciences and Engineering, 23-25 March 2017 Luxor, Egypt.**
- 19-Preparation and Characterization of a-Si:H and a-SiC:H Separate p-i-n Thin Films**
- September 2017

- International Journal of Thin Films Science and Technology 6(117):117-121
- DOI:
- [10.18576/ijtfst/060304](https://doi.org/10.18576/ijtfst/060304)



- [Ahmed Abo Arais](#)

20-AC Conductivity and Dielectric Properties of Mn-Zn Ferrites
 A.A. Arais¹, K.E. Rady², M.S. Shams Bulg. J. Phys. 45(2018) 44–53

21-Electrical, Structural, and Thermal Properties of Ferrite/Superconductor (Ni_{0.5}Zn_{0.5}Fe₂O₄)_x/YBa₂Cu₃O_{7-δ}) Nanocomposite Materials

- August 2019
- [Journal of Superconductivity and Novel Magnetism](#) 32(1)
- DOI: [10.1007/s10948-018-4984-1](https://doi.org/10.1007/s10948-018-4984-1)

22-Projec of Master:

- [Supervision on MSc student in the field of superconducting and ferrites nanocomposite materials](#)



- [Ahmed Abo Arais](#)
- [M.A.T. Dawoud](#)
- [M.S. Shams](#)
- [Eslam Elbehiry](#)

23-The effect of Ni–Zn ferrite doping on the superconductivity of Y₃Ba₅Cu₈O₁₈ nanocomposite materials

- November 2020 AIP Advances 10(11):115012 DOI: [10.1063/5.0025873](https://doi.org/10.1063/5.0025873)
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Professional Work Experience

1- Associate Prof. in Physics Department Faculty of Electronic Engineering (teaching and researching) from 31/12/2005 to now.

2- Assistance Prof. Physics Department Faculty of Electronic Engineering (teaching and researching) from 17/12/1995 to 31/12/2005.

3- Assistance Lecturer in physics Depart .Faculty of Electronic Eng (teaching and research) from 1/4/1990 to 17/12/1995.

4- Instructor in physics Depart. Faculty of Electronic Eng.(teaching and researching) from 15/11/1981 to 1/4/1990.

Teaching Subjects:

X-ray - Quantum Theory-Superconductivity-Semiconductor-Electricity and Magnetism-Optics-Heat and Thermodynamics- Properties of Materials and other related topics.

Quantum Mechanics- Energy Physics