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) Faculy 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

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List of Scientific Publications:

1- Thermal conductivity of ZnO phosphate glass J of Mater Scie, 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 hysics,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

Gd³⁺ ions doping effect on the microstructure and electrical properties of Mn_{0.9}Zn_{0.1}Ni_{0.05} Ti_{0.05} Gd_t Fe_{1.9-t} O₄ ferrite. International Journal of Scientific and Engineering

Research Vol.6, Issue10 (2016) 1797-1809.

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Structural, electrical and thermal analysis of Y₁.

 $_{x}Eu_{x}Ba_{2}Cu_{3}O_{7-\delta}$ superconductors.

International Journal of Advanced Research, Vol.5, Issue2 (2017) 46-54.

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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:
- <u>10.18576/ijtfst/060304</u>



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

21-Electrical, Structural, and Thermal Properties of Ferrite/Superconductor (Ni0.5Zn0.5Fe2O4)x/YBa2Cu3O7-

- **δ) Nanocomposite Materials**
 - August 2019
 - Journal of Superconductivity and Novel Magnetism 32(1)
 - DOI: <u>10.1007/s10948-018-4984-1</u>
- 22-Projec of Master:
 - <u>Supervision on MSc student in the field of</u> <u>superconducting and ferrites nanocomposite materials</u>

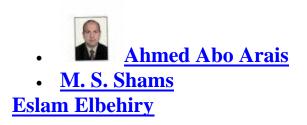


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- M.A.T. Dawoud
- M.S. Shams
- Eslam Elbehiry

23-The effect of Ni–Zn ferrite doping on the superconductivity of Y 3 Ba 5 Cu 8 O 18 nanocomposite materials

- November 2020 AIP Advances 10(11):115012 DOI: <u>10.1063/5.0025873</u>
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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