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Academic Qualifications

1998 – 2002 PhD / MAGNETIC MATERIALS

Department of Physics , College of Science , **Mustansiriyah University**

Doctoral Thesis: "Preparation and Study Samples of Ferrite as Radar Absorbing Materials (RAM) at X-band Microwaves."

1993 – 1996 Master of Nuclear Physics

Department of Physics , College of Science , **Baghdad University**

Masters Thesis: "A Study of Gamma- Rays Buildup Factor and Angular Scattering for Multilayer Shields.***"

1988 – 1992 Bachelor of Physics Science

Department of Physics , College of Science , **Baghdad University**

Administrative positions

1-Manager of unit of Computer at College of Education-wasit (1997-2001)

2-Head of Dept. of Physics (2002-2004)

3-Dean of college of Science (April 2004 - November 2004)

4-Deputy of Dean for Scientific Affairs (2005-2007)

5- Director of Center of Computer and Informatics(2010-2013)

6- Vice Chancellor for Academic Affairs / Wasit University (2013-2018)

Academic Title

Assistant Lecturer 1997

Lecturer 2002

Assistant Professor 2009

Professor 2017

Teaching

- a) Postgraduate :
 - Master of Physics : Electromagnetic Theory
 - Ph.d of Physics : Electrodynamics
 - Supervisor for Ph.D and Master students.

b) Undergraduate :

Teaching the following annual courses at different years:

- 1-Mechanics / 1st stage/phys.
- 2-Electriciy & Magnetism / 1st stage/phys.
- 3-Modern Physics / 2nd stage /Phys.
- 4-Electronics (analog) / 2nd stage /Phys.
- 5-Radioactive Biophysics 3rd stage /Phys.
- 5-Electromagnetics / 4th stage / Phys.
- 6-Philosophy of Physics / 4th stage / Phys.
- 7-Biophysics / 1st stage/ Bio.
- 8-General Physics / 1st stage /Chem.
- 9-Statistics/ 2nd stage /Bio.
- 10-Supervisor of researches for 4th stage physics's student.
- 11-Basic Language(computer)/ 1st stage for different departments.

Committee

- 1-Member of Ministry committee of Avicenna for virtual learning in Iraq .
- 2-Member of scientific committee of Physics dept.
- 3-Member of committee for final examinations for several years in College of science.
- 4- Member of dozens of committees in University of Wasit and college of science and dept. of physics for several years.

Academic Activities

- 1-Chairing and presenting several discussions of researches of 1st and 2nd Conferences of University of Wasit.
- 2-Lecturer and Advisor at dept. of Physics in (OPEN DUCATIONAL COLLEGE) center of Wasit.
- 3-Lecturer on a training program in computer science .

Publications

- 1- H.A.Yusr Al-Ammar,J.H.Al-Asadi,"Measurement of Apsorption Coefficient for Different Atomic Number's Materials Using Cs-137 Source," 3ed Conference of Al-Qadis. Univ. Apr. 1999.
- 2- H.A.Yusr Al-Ammar, A.F.Essa, H.D.Al-Attabi,"A Study of absorption of Cobalt Ferrite for Radar Waves," Jour. of Babylon Univ.,Vol(14), Issue(4). Dec. 2007.
- 3- H.A.Yusr Al-Ammar "The effect of the Temperature's sintering on the Absorption of Hexagonal Ferrite (BaFe12O19) for the Radar Waves on X-band," Jour. Karbala Univ., Vol (5),Issue No.(2),June 2007.
- 4- A.F.Essa, H.A.Yusr Al-Ammar,H.D.Al-Attabi,"Effect of Completion Stage on Physical and Mechanical Properties for Cotton Cloth,"Iraq. Jou of Sci.Bagh. Univ., Vol.(48),Issue No.(1), 2007.

5- H.A.Yusr Al-Ammar , "The Effect of Cobalt Proportion on Ferrite (Cox Cu 1-x Fe2O4) at Reflectivity of Radar Waves," Jour. Wassit Univ. for Sci. & Mid., Vol.(1), issue No.(1), Feb. 2008

6- H.D.Al-Atabi, A.F.Essa, H.A.Yusr Al-Ammar, "Study of Ratio Fission Width to Total Width for Fission Materials by Monoenergetic Neutrons (2-4 MeV)," Jour. of Um-Salma, Bagh. Univ., Vol.(5).2008.

7- Khalidah Salih Merzah Salih Merza ,Hadi D Al-Atabi,Zaid M. Abbas,Hashim Ali Yusr,Comparative Study on Methods for Preparation of Gold Nanoparticles Green and Sustainable Chemistry , Vol.2 No.1, February 2012.

8- Sukina T. Gafel, Hashim Ali Yusr, Hassan Abid Yasser, Modes Analysis in Step Index Fiber , Thi-Qar science, Vol.4, No.4, 2014.

9- Sukina T. Gafel ,Hashim Ali Yusr,Hassan Abid Yasser ,Dispersion analysis in multimode fibers ,Wasit Journal for Science & Medicine , 7(4): (243-254) , 2014.

10- Mohammed Suham, Hashim Ali Yusr ,Bushra Mahdi, Unclad Fiber Optic Sensor by Evanescent Wave for Toxic Gas Detection , Estratto da: Atti della Fondazione Giorgio Ronchi (Italia), Anno LXX, n. 5 - Settembre-Ottobre ,2015.

11- Preparation of Ni-Ferrite Samples for Absorbing Spectrum of X-Band Waves Using Network Method, Journal of College of Education , Volume , Issue 1, Pages 65-80,2015.

12- Pulse Propagation in Presence of Stimulated Raman Scattering Self Steeping in Single Mode Fiber, , Journal of College of Education , Issue 1, Pages 187-208, Volume 2015.

13- A study of Y-type hexagonal ferrite as radar absorbing materials , Jour. Wassit Univ. for Sci. & Mid., Vol.(9), issue No.(2), 2016. 22 12 2 2 O Fe Co Ba

14- Studying the Effect of the Concentration and Sintering Temperature on the Structural and Optical Properties of Zinc Ferrite (ZnFe 2 O 4) Preparing by Sol-Gel, International Journal of Recent Research and Applied Studies, Volume 4, Issue 9 (15) September 2017

15- Effect of Molar Concentration of Zinc Ferrite (ZnFe2O4) Nano Particles Prepared by Sol-Gel on Microwaves Attenuation, International Journal of Recent Research and Applied Studies, Volume 5, Issue 1 (1) January 2018.

16- Fiber Optic Sensors for Measurement of Refractive Index of Liquids by Using Fresnel Ratio Meter, International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 5 Issue 3, March 2017.

17- Study of the Electric ,Magnetic Properties of Ferrite Samples as Radar Absorbing Materials Using Network Analyzer Method, International Journal of Scientific Engineering and Research (IJSER), Volume 5 Issue 3, March 2017.

18- Study of the magnetic and electrical properties of spinal ferrite Ca1- X NixFe2O4 type using network analyzer, University of ThiQar ,journal of Science, Volume 6, Number 1, December 2016.

19- A study of absorption and attenuation coefficient of Y-type hexagonal ferrite (Ba2Co2-x ZnxFe12O22) for microwave waves, Jour. Wassit Univ. for Sci. & Mid., Vol.(9), issue No.(3), 2016.

20- Density Functional Theory Calculations of Electronic Properties ,IR and UV-Vis Spectrum , Dipoles Moments ,and Atomic Charge Distribution of Mg1-XZnXFe2O4 Ferrite, Jour. Wassit Univ. for Sci. & Mid., Vol.(10), issue No.(2), 2017.

21- TGA, DSC, DTG Properties of Epoxy Polymer Nanocomposites by Adding Hexagonal Boron Nitride Nanoparticles , Journal of Engineering and Applied Sciences 14(2):567-574, January 2019.

22- Enhanced Mechanical, Electrical Properties of the Epoxy Polymer by Adding Hexagonal Boron Nitride Nanoparticles , Indian Journal of Natural Sciences, Vol. 8 / Issue 49 /August 2018.

23- DESIGN AND MANUFACTURING OF A MAGNETIC SWITCH BY USING OIL-BASED FERROFLUID AND OIL-BASED FERROFLUID DOPED WITH COPPER

NANOPARTICLES, MINAR International Journal of Applied Sciences and Technology, Minar Journal, Volume 1, Issue 1,2019.

24- The magnetic switch manufacturing by using ferrofluid and ferrofluid doped copper nanoparticles, Iraqi Journal of Physics, Vol.18, No.46, PP. 39-45,2020.

25- Power flux in five layers slab waveguide with metamaterials, International Laser Technology and Optics Symposium 2019 (iLATOS2019), Journal of Physics: Conference Series1484 (2020) .

26- The Effect of Adding (CaO: ZrO₂: TiO₂) (CZT) NPs Powder on the Thermal Properties and Thermal Expansion of (PMMA) in Bio-Compatible Applications, NeuroQuantology, Volume 18 , Issue 6 , Page 27-35 , June 2020.

27- Mechanical Properties of (PMMA/CaTiZrO₅) the Biocompatible, international Conference on Physics and Photonics Processes in Nano Sciences, Journal of Physics: Conference Series1362 (2019) .