

Academic Curriculum Vitae



Personal Information:

Full Name: Dr. Muhamad Abdullah hamad

Academic Title: Assist. Prof.

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Education:

- Ph.D. of Science (molecular physics), 2009
Dept. of physics, College of science
Baghdad University /Baghdad, Iraq.
Thesis Title: 'Self assembly fabrication of photonic crystals
Thesis Supervisor: Prof. Dr. Baha Tuhma Jiad, prof.Dr. Abas hamadi Attar
- Master of Science (Physics), 2000
Dept. of Physics, College of Science
University of Salahaddin /Hawler, Kurdistan Region, Iraq.
Thesis Title: Theoretical study of background Gamma radiation for Erbil city below 3 MeV.
Thesis Supervisor: Asist. Prof. Dr. Imad Mamduh
- Bachelor of Science (Physics), 1989 – 1990.
Dept. of Physics, College of Education
University of Salahaddin /Hawler, Kurdistan Region, Iraq.

Employment:

1. 16/7/2000 – 15/4/2009

Assistance lecturer, Department of Physics, College of Education / University of Salahaddin / Hawler, Kurdistan Region, Iraq.

2. 15/4/2009 –2019

lecturer, Department of Physics, College of Education / University of

Salahaddin / Hawler, Kurdistan Region, Iraq.
3- 2019-present Assistant professor, Department of Physics, College of Education /
University of Salahaddin / Hawler, Kurdistan Region, Iraq.

Qualifications

- Teaching qualifications:
Ph.D. of Science (Molecular physics), 2009
Master of Science (Physics), 2000
Bachelor of Science (Physics), 1989 – 1990.

Administration Qualifications:

1. Assistant of the Head master of physics department of (Education College/Salahaddin University-Hawler) from 2000 to 2004.
2. Member in Examination Committee of (Education College/Salahaddin University-Hawler) for 6 years.
3. member in (Quality insurance of physics department Education College of Salahaddin University-Hawler from 2010 till 2012.
4. Member in scientific Committee of physics department from 2009-2017.

Teaching experience:

Teaching (undergraduate or post graduate)

B.Sc. Courses, Department of Physics, College of Education, Salahaddin University/
Hawler, Iraq:

- 1-1st stage: Mechanics (Theory), General Physics Laboratory, Properties of Matter Laboratory, and Electricity Laboratory.
- 2-2nd Stage: Optics (Theory), Optics Laboratory and Advanced Electricity Laboratory.
- 3- 3rdstage: Electronic (Theory), Electronics Laboratory.
- 4-3rdStage :Modern Physics(Theory), Atomic Laboratory.
- 5-4th stage: Nuclear Laboratory and Illustration Laboratory.
- 6- 4thStage : Lasers.
- 7- General Physics for Chemistry Dept. Students.
- 8- Practical Electricity and Magnetism for Physics Dept. Students.
- 9-Practical Mechanics and Properties of Matter.
- 10- Supervision of B.Sc. graduation projects in several topics for Physics Dept.Students.
- 11- Diploma students : Modern physics.
- 12-second stage: Fluid and thermodynamics.

Research and publications

- [1]– Muhamad. A. Hamad, B.T., Chiad ” self assembly fabrication of photonic crystals” Iraqi Journal of physics, Vol. N.
- [2]- Muhamad Abdulla Hamad “Design CO₂ Molecule Gas Sensor Based On Surface Plasmon Resonance” Polytechnic Journal: Vol.7 No.4 (December 2017): Pp:30-39
- [3]-Muhamad A. Hmad , Assad H. Ismail ”Radiation Exposure of leukemia blood samples and its impact on the density of RBC ,WBC , and PLT : in vitro”.
- [4] Muhamad A. Hamad , Aziz A. Barzinjy “Simulation of Cu Electrodeposition from Aqueous Solution for Solar Absorption Using COMSOL Model”. Proceedings ICNS 2016, First International Conference of Natural Science (ICNS 2016) College of Basic Education, Charmo University, Chamchamal, Sulaimani, Kurdistan-Iraq
- [5] Muhamad A. Hamad , Aziz A. Barzinjy, Haidar J. Ismail, Samir M Hamad. “Enhancement of emission and directionality of Light Emitting Diode using Surface Plasmon Resonance”. ZJPAS (2017), 29 (s4); s201-s209
- [6] Omer S.shafiq, Luay hamd sleman and Muhamad A. Hamad .”nonlinear optical properties of thin film polymer [PMMA] doped dye lasing compounds rhodamin 6G and acriflavine in chloroform solvent by using dip coating system”. *Iraqi Journal of Physics*, 2017 Vol.15, No.35, PP. 125-132.
- [7] Azeez A. Barzinjy^{1,2*} , Kadhim Q. Jabbar¹ , Haidar J. Ismael¹ , Mohammed A. Hamad¹ , Samir M. Hamad³ “Mathematical Modeling of Charge and Discharge Process in Lithium Ion Batteries Using COMSOL Multiphysics” Polytechnic Journal: Vol.7 No.4 (December 2017): Pp:76-85
- [8]** Azeez Abdullah Barzinjy^{1,2} & Haidar Jalal Ismael¹ & Mohammed Abdullah Hamad¹ Samir Mustafa Hamad³ & Mudhaffer Mustafa Ameen^{1a}
Mathematical Modeling of Mass Change in Biosensor Quartz Crystal Microbalance Using Matlab” Eurasian Journal of Science & Engineering , Volume 3, Issue 2; December, 2017

Conferences and courses attended

1. Muhamad A. Hamad (2019) ICOBAS conference “surface plasmon resonance prism coupling sensor

2. Funding and academic awards

- NA

Professional memberships

- 1-Member of Iraqi Physics and Mathematic Syndicate, Since 1990.
- 2-Member of Kurdistan Physicists Syndicate, since 2006.
- 3-Kurdistan Teacher Syndicate, since 2000

Professional Social Network Accounts:

- Google Scholar
- <https://scholar.google.com/citations?user=gyoFbbUAAAAJ&hl=en>
- ResearchGate
- <https://www.researchgate.net/profile/Muhamad-Hamad>
- LinkedIn
- <https://www.linkedin.com/in/muhamad-hamad-41499bb2/>
- Orcid