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PhD (Materials Science)

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Born in Erbil-Iraq in 1973

Academic Qualifications:

1-B. Sc. (1994-1998) in Physics -Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.

2- Teaching assistance (1998-2002) in in Physics -Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.

3- M. Sc. (2002-2004) in Superconducting Transmission line -Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.

4- Teaching staff (2004-2011) in in Physics -Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.

5- PhD (2011-2014) in Material Science (Electroplating), Material center / University of Leicester -United Kingdom.

Teaching and advising:

- 1- General Physics, (Undergraduate) Mathematic Department College of Education, University of Salahaddin Erbil-Iraq.
- 2- General Physics, (Undergraduate) Mathematic Department College of Science, University of Soran Erbil-Iraq.

- 3- Physics, (High school) Qalla College for gifted students.
- 4- Analytical Mechanics, (Undergraduate) Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.
- 5- Quantum Mechanics, (Undergraduate) Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.
- 6- Modern Physics lab. (Undergraduate)Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.
- 7- Materials Science (MSc. Student) Department of Physics, College of Science, University of Salahaddin Erbil-Iraq.
- 8- Advising about 30 projects of BSc students.
- 9- Supervising of an MSc student in Bioengineering and Science department, University Of Kahramanmaraş Sütçü İmam Graduate School Of Natural And Applied Sciences, Turkey.

Publications:

(i) Papers:

- 1- [Speciation, physical and electrolytic properties of eutectic mixtures based on CrCl₃·6H₂O and urea](#)
AP Abbott, **Azeez A Al-Barzinjy**, PD Abbott, G Frisch, RC Harris, J Hartley, ...
Physical Chemistry Chemical Physics 16 (19), 9047-9055
- 2- [Theoretical analysis of normal and superconducting strip-line parameters](#)
Azeez A Al-Barzinjy, Luogo, editore, data di pubblicazione: Arcetri-Firenze, 577-597.
- 3- [Theoretical study of the electromagnetic wave behavior in Josephson transmission line using MATLAB model](#)
Azeez A Al-Barzinjy, Tikrit Journal of Pure Science ISS N: 1813 - 1662 17 (4), 156-164.
- 4- [Theoretical investigation on trap effect on solar cell characteristics](#)
Azeez A Al-Barzinjy, NM Nasir, HJ Ismail Arcetri-Firenze : La Fondazione, 715-726.
- 5- [Electromagnetic wave behaviour in Josephson transmission line: A Theoretical Perspective](#)
Azeez A Al-Barzinjy, International Conference on Nanoscale Magnetism ICNM-2010 Gebze, Turkey, 208-229
- 6- [Theoretical study of some parameters for Photovoltaic modules using MATLAB model](#)
Azeez A Al-Barzinjy, NM Nasir, HJ Ismail Baghdad 17th international Conference for pure and applied Sciences 2010, 18-28.
- 7- [Some parametric study for low and HTS strip –line](#)
Azeez A Al-Barzinjy, SO Ibrahim Zanko journal of pure and applied sciences 18 (3), 90-108
8. [Modelling of mild steel corrosion using COMSOL multiphysics](#)
Azeez Abdullah Al-Barzinjy*, Kadhim Qasim Jabbar and Haidar Jalal Ismael, ICEEE 2015 CONFERENCE, 2nd INTERNATIONAL CONFERENCE on ECOLOGY, ENVIRONMENT, and ENERGY “Green Approaches to Ecology, Environment and Energy” 12-13 APRIL 2015 Jointly Organized by: Ishik and Salahaddin University.
9. [Electrodeposition of Ni-Cr alloy from Ethaline Deep Eutectic Solvent](#)

Azeez A Al-Barzinjy, Zanko journal of pure and applied sciences, ZJPAS (2016), 28 (2); 47-55

10. [Optimization of nano-pore sensor for DNA detecting using Matlab model](#)

Haidar Jalal Ismael, Azeez A Al-Barzinjy, American Journal of Nanosciences (in press)

11. [Electropolishing of Re-melted SLM Stainless Steel 316L Parts Using Deep Eutectic Solvents: 393 Full Factorial Design](#)

Azeez A Al-Barzinjy, K. Alrbaey, D.I. Wimpenny and A. Moroz, Journal of Materials Engineering and Performance pp 1-11, 1544-1024.

12. [Chromium ions speciation study in a novel deep eutectic solvent using EXAFS spectroscopy](#)

Azeez A Al-Barzinjy, Haidar J. Ismael, Samir M. Hamad, and Muhammad A. Hamad, International journal of Scientific and Engineering Research

(ii) Talks:

1- **Azeez A. Al-Barzinjy**, Andrew. P. Abbott & Karl S. Ryder, Chromium electroplating using a novel deep eutectic solvent, The Midlands Electrochemistry Group Meeting (MEG 2013) Postgraduate Students' Meeting, 17th April 2013 Nottingham.

2- **Azeez A. Al-Barzinjy**, Andrew. P. Abbott & Karl S. Ryder, Chromium electrodeposition using a novel type IV deep eutectic solvent, the Molten Salt Discussion group, Christmas Meeting 16th December 2013, London.

3- **Azeez A. Al-Barzinjy**, Chromium plating from environmentally friendly liquids, East Midlands Universities Postgraduate Research Student Conference, 6th September 2013, University of Derby, Derby.

4- **Azeez A. Al-Barzinjy**, A. P. Abbott and K. S. Ryder, Chromium plating from the novel environmentally friendly liquid, Iraqi Cultural Attaché Conference, 28th February 2014, University of Nottingham, NG7 2RD, Nottingham.

5- **Azeez A. Al-Barzinjy**, Chromium plating using new ionic liquid systems, Kurdistan Medical and Scientific Federation (KMSF), 1st Special Seminar Postgraduate Students and HCDP Programme, 19th May 2012, Aston University, Birmingham.

6- **Azeez A. Al-Barzinjy**, and Masoud Muhammed Zankana, A novel application of the quartz crystal microbalance for determining the rheological properties of the highly viscous liquids, ICCESSEN, 2nd International Conference on Computational and Experimental Science and Engineering, 14-19 Oct 2015, Limra Hotel, Kemer-Antalya-TURKEY.

(iii) Posters:

1- **Azeez A. Al-Barzinjy**, Andrew. P. Abbott & Karl S. Ryder, Chromium electrodeposition using type IV deep eutectic solvent, the Molten Salt Discussion group, Christmas Meeting 21th December 2013, Leicester.

2- **Azeez A. Al-Barzinjy**, Chromium plating from a novel DES, The best 50 research student winner from 1400 member of postgraduate research community, University of Leicester 27th June 2013.

3- **Azeez A. Al-Barzinjy**, A. P. Abbott and K. S. Ryder, Chromium Electrodeposition using a Novel Type IV

Deep Eutectic Solvent, Electrochem conference September 1-3, 2013 Southampton University, 2013, 171, Southampton.

4- **Azeez A. Al-Barzinjy**, Chromium plating using new ionic liquid systems, Kurdistan Medical and Scientific Federation (KMSF), 1st Special Seminar Postgraduate Students and HCDP Programme, 19th May 2012, Aston University, Birmingham.

5- **Azeez A. Al-Barzinjy**, Chromium plating from a novel DES, the first international scientific conference for Kurdistan's postgraduate students, KSC2013, 16th September, 2013, Nottingham University Jubilee Campus, Nottingham.