

# PROF. DR AZEEZ A. BARZINJY

(PhD in Materials Science at University of Leicester, Leicester, UK)

Full Professor of Materials Science at  
Soran University, Kurdistan Region, Iraq



## PROFILE

Having outstanding research potential and an aptitude to enthusiastically contribute to the research projects goals as well as a proven publication track record and a good standard of written English. Able to interact with all researchers in a constructive, creative and professional manner during the processing, storing and logging process. Possessing prior knowledge of teaching, theoretical and experimental research work, Azeez is always looking for appropriate Research collaboration with the researchers in Materials Science, Nanotechnology and Quantum fields.

## CONTACT

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## HOBBIES

Calligraphy  
Reading  
Travelling

## WORK ADDRESS

Scientific research center, Soran  
university, Kurdistan Region, Iraq  
Zip code: 44008

## EDUCATION

### B. Sc. Degree

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

### M.Sc. Degree

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

M.Sc. (2008-2009) in Theoretical Physics, Old Dominion University, Virginia, USA.

### PhD. Degree

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

## WORK EXPERIENCE

### Teaching Assistance

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

Working in Modern Physics Lab, Nuclear Physics Lab, General Physics Lab and Properties of Matter Lab.

### Teaching Staff

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

### Teaching Staff

Teaching staff (2014-2022) in in Physics -Department of Physics, College of Education, University of Salahaddin Erbil-Iraq. TIU and Raparin University.

Researcher at Scientific Research Center, Soran University (2022-now).

Advising about 50 projects of BSc students. Supervising 2 M. Sc. Students and Discussion committee in many PhD, MSc and BSc thesis.

## SKILLS

1. Research Experience (Materials Science, Green Synthesis Nanoparticles, Electrodeposition, Thin Films, Ionic Liquids and Nanotechnology).
2. Teaching Experience (Nanotechnology, Materials Science, Quantum Mechanics, Analytical Mechanics, Thermodynamics, Modern Physics, Optics and Thin Film Preparation).
3. Computer and software proficiency (Mathcad, MATLAB, Mathematica, COMSOL Multiphysics, Spartan (molecular modeling and computational chemistry application from Wavefunction), Graph Pad Prism and Origin Pro).
4. Languages and Skills (Kurdish, Arabic and English).

## ORGANIZATION COMMITTEES

1. EXAMINATION, SCIENTIFIC, QUALITY ASSURANCE, PROGRAMING, SEMINAR, RESEARCH PROJECT, PROMOTION, AND JURY COMMITTEE MEMBER IN SEVERAL UNIVERSITES IN KURDISTAN AND IRAQ AND WORLD.
2. EDITORIAL BORD IN LOCAL AND INTERNATIONAL JOURNALS.
3. SCIENTIFIC COMMITTEE OF 3<sup>RD</sup> INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN 2016) IN KEMER-ANTALYA (TURKEY). [HTTP://2016.ICCESEN.ORG/PAGE/SCIENTIFIC-COMMITTEE](http://2016.iccesen.org/page/scientific-committee)
4. SCIENTIFIC COMMITTEE OF 4<sup>TH</sup> INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN 2017) IN KEMER-ANTALYA (TURKEY). [HTTP://2017.ICCESEN.ORG/PAGE/SCIENTIFIC-COMMITTEE](http://2017.iccesen.org/page/scientific-committee)
5. SCIENTIFIC COMMITTEE OF 5<sup>TH</sup> INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN 2018) IN KEMER-ANTALYA (TURKEY). [HTTP://WWW.ICCESEN.ORG/PAGE/SCIENTIFIC-COMMITTEE](http://www.iccesen.org/page/scientific-committee)
6. INTERNATIONAL ADVISORY BOARD OF THE FIRST INTERNATIONAL CONFERENCE ON CURRENT NANOTECHNOLOGY AND ITS APPLICATION (ICCNA - 2018) 10 - 12 APRIL, 2018, IRBID, JORDAN.  
[HTTP://WWW.JUST.EDU.JO/CONFERENCES/ICCNA2018/PAGES/COMMITTEES.ASPX](http://www.just.edu.jo/conferences/iccna2018/pages/committees.aspx)
7. SCIENTIFIC COMMITTEE IN THE FOURTH INTERNATIONAL CONFERENCE ON "RESEARCH TO APPLICATIONS & MARKETS" RAM 2019, OCTOBER 21-23, 2019 - HAMMAMET - TUNISIA  
[HTTPS://SITES.GOOGLE.COM/A/FSS.USF.TN/RAM2019/COMMITTEES/INTERNATIONAL-SCIENTIFIC-COMMITTEE](https://sites.google.com/a/fss.usf.tn/ram2019/committees/international-scientific-committee)
8. SCIENTIFIC COMMITTEE IN INTERNATIONAL CONFERENCE ON NANOTECHNOLOGY AND ITS APPLICATIONS, FROM 22-23 JANUARY 2020. JOINTLY ORGANIZED BY SALAHADDIN UNIVERSITY-ERBIL, IRAQ, MINISTRY OF INDUSTRY & MINERALS, CORPORATION OF RESEARCH & INDUSTRIAL DEVELOPMENT (CRID) AND UNIVERSITY OF MALAYA (UM).  
[HTTPS://INFOTECHPROGRAMS.WIXSITE.COM/NANO2020/FRYQ-ALNANW](https://infotechprograms.wixsite.com/nano2020/FRYQ-ALNANW)
9. SCIENTIFIC COMMITTEE AND INTERNATIONAL COMMITTEE IN THE FIFTH INTERNATIONAL SYMPOSIUM ON DIELECTRIC MATERIALS AND APPLICATIONS, ISYDMA'5, 15-17 APRIL 2020. FACULTY OF SCIENCES SEMLALIA CADI AYYAD UNIVERSITY MARRAKESH, MOROCCO.  
[HTTPS://WWW.ISYDMA.COM/COMMITTEES/](https://www.isydma.com/committees/)
10. SCIENTIFIC COMMITTEE IN THE 3RD INTERNATIONAL CONFERENCE ON MATERIAL STRENGTH AND APPLIED MECHANICS (MSAM 2020) AUGUST 10-13, 2020, MACAO, CHINA  
[HTTP://WWW.MSAMCONF.ORG/COMMITTEE.HTML](http://www.msamconf.org/committee.html)
11. ORGANIZATION COMMITTEE FOR 1<sup>ST</sup>, 2<sup>ND</sup>, 3<sup>RD</sup>, 4<sup>TH</sup>, 5<sup>TH</sup> AND 6<sup>TH</sup> NANOTECHNOLOGY WORKSHOP AT TIU FROM 2017-2022 RESPECTIVELY.  
[HTTPS://TIU.EDU.IQ/NANOTECHNOLOGY-WORKSHOP-NW1-2017/NANOTECHNOLOGY-WORKSHOP-NW1-2017-2/](https://tiu.edu.iq/nanotechnology-workshop-nw1-2017/nanotechnology-workshop-nw1-2017-2/)
12. PRESENTING SEVERAL PRESENTATIONS ABOUT "HOW TO PUBLISH YOUR MANUSCRIPTS IN INTERNATIONAL JOURNALS" IN SEVERAL WORKSHOPS IN SALAHADDIN, ERBIL POLY TECHNIQUE, RAPARIN, TIU, ZAKHO, HAWLER MEDICAL UNIVERSITY.

## Local and International Memberships

1. AMERICAN PHYSICAL SOCIETY SINCE 2008.
2. AMERICAN CHEMICAL SOCIETY SINCE 2011.
3. ROYAL SOCIETY OF CHEMISTRY SINCE 2011.
4. KURDISTAN TEACHERS UNION SINCE 1998.
5. KURDISTAN PHYSICISTS' SYNDICATE SINCE 2005.
6. KURDISTAN CALLIGRAPHERS SOCIETY SINCE 1994.
7. LEICESTER IONIC LIQUIDS GROUP SINCE 2011.
8. ZANCO CULTURAL CENTER SINCE ESTABLISHING THE CENTER.
9. SCIENCE PUBLISHING GROUP SINCE 2014.
10. REVIEWR IN JORDAN JOURNAL OF PHYSICS, ZANCO JOURNAL, ASIAN JOURNAL OF MATERIALS SCIENCE, POLYTECHNIQUE JOURNAL, ISHIK JOURNAL, ARO JOURNAL AND ZAKHO JOURNAL SINCE 2014.

## LINKS

FORMAL PAGE: <https://www.webofscience.com/wos/author/record/W-6517-2019>

RESEARCH GATE: <https://www.researchgate.net/profile/Azeez-Barzinij>

GOOGLE SCHOLAR: <https://scholar.google.com/citations?user=gq7a2BsAAAAJ&hl=en&authuser=1>

LIVE DNA: [HTTP://WWW.LIVEDNA.NET/?DNA=964.11825](http://www.livedna.net/?DNA=964.11825)

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SEMANTICSCHOLAR: [HTTPS://WWW.SEMANTICSCHOLAR.ORG/AUTHOR/AZEEZ-ABDULLAH-BARZINJY/72517640](https://www.semanticscholar.org/author/AZEEZ-ABDULLAH-BARZINJY/72517640)

## Publications

1. Abbott, Andrew P., **Azeez A. Barzinjy**, Paul D. Abbott, Gero Frisch, Robert C. Harris, Jennifer Hartley, and Karl S. Ryder. "Speciation, physical and electrolytic properties of eutectic mixtures based on  $\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$  and urea." *Physical Chemistry Chemical Physics* 16, no. 19 (2014): 9047-9055.
2. Nasrollahzadeh, Mahmoud, Mohaddeseh Sajjadi, Mehdi Maham, S. Mohammad Sajadi, and **Azeez A. Barzinjy**. "Biosynthesis of the palladium/sodium borosilicate nanocomposite using *Euphorbia milii* extract and evaluation of its catalytic activity in the reduction of chromium (VI), nitro compounds and organic dyes." *Materials Research Bulletin* 102 (2018): 24-35.
3. Tlili, Iskander, M. M. Bhatti, Samir Mustafa Hamad, **Azeez A. Barzinjy**, M. Sheikholeslami, and Ahmad Shafee. "Macroscopic modeling for convection of Hybrid nanofluid with magnetic effects." *Physica A: Statistical Mechanics and its Applications* 534 (2019): 122136.
4. Li, Yong, Farshad Shakeriaski, **Azeez A. Barzinjy**, Rebwar Nasir Dara, Ahmad Shafee, and Iskander Tlili. "Nanomaterial thermal treatment along a permeable cylinder." *Journal of Thermal Analysis and Calorimetry* 139, no. 5 (2020): 3309-3315.
5. Liu, Wi, Amin Shahsavari, **Azeez A. Barzinjy**, Abdullah AAA Al-Rashed, and Masoud Afrand. "Natural convection and entropy generation of a nanofluid in two connected inclined triangular enclosures under magnetic field effects." *International Communications in Heat and Mass Transfer* 108 (2019): 104309.
6. Alrbaey, K., David Ian Wimpenny, **Azeez A. Barzinjy**, and Adam Moroz. "Electropolishing of re-melted SLM stainless steel 316L parts using deep eutectic solvents:  $3 \times 3$  full factorial design." *Journal of Materials Engineering and Performance* 25, no. 7 (2016): 2836-2846.
7. Peng, Yeping, Majid Zarringhalam, **Azeez A. Barzinjy**, Davood Toghraie, and Masoud Afrand. "Effects of surface roughness with the spherical shape on the fluid flow of Argon atoms flowing into the microchannel, under boiling condition using molecular dynamic simulation." *Journal of Molecular Liquids* 297 (2020): 111650.
8. Sajadi, S. Mohammad, Kamal Kolo, Samir M. Hamad, Sarbast A. Mahmud, **Azeez A. Barzinjy**, and Sarbast M. Hussein. "Green Synthesis of the Ag/Bentonite Nanocomposite Using *Euphorbia larica* Extract: A Reusable Catalyst for Efficient Reduction of Nitro Compounds and Organic Dyes." *ChemistrySelect* 3, no. 43 (2018): 12274-12280.
9. **Azeez A. Barzinjy**, "Electrodeposition of chromium using novel deep eutectic solvents." PhD diss., University of Leicester, 2014.
10. Wu, Huawei, Abdullah AAA Al-Rashed, **Azeez A. Barzinjy**, Amin Shahsavari, Ali Karimi, and Pouyan Talebizadehsardari. "Curve-fitting on experimental thermal conductivity of motor oil under influence of hybrid nano additives containing multi-walled carbon nanotubes and zinc oxide." *Physica A: Statistical Mechanics and its Applications* 535 (2019): 122128.
11. **Azeez A. Barzinjy**, and Masoud M. Zankana. "A novel application of the quartz crystal microbalance for determining the rheological properties of the highly viscous liquids." *Acta Physica Polonica A* 130, no. 1 (2016): 239-244.
12. Xiong, Qingang, M. Ayani, **Azeez A. Barzinjy**, Rebwar Nasir Dara, Ahmad Shafee, and Trung Nguyen-Thoi. "Modeling of heat transfer augmentation due to complex-shaped turbulator using nanofluid." *Physica A: Statistical Mechanics and its Applications* 540 (2020): 122465.
13. Tlili, Iskander, Tawfeeq Abdullah Alkanhal, **Azeez A. Barzinjy**, Rebwar Nasir Dara, Ahmad Shafee, and Zhixiong Li. "Investigation of thermal characteristics of carbon nanotubes: Measurement and dependence." *Journal of Molecular Liquids* 294 (2019): 111564.
14. Zhao, Dongming, Mohammadali Hedayat, **Azeez A. Barzinjy**, Rebwar Nasir Dara, Ahmad Shafee, and Iskander Tlili. "Numerical investigation of  $\text{Fe}_3\text{O}_4$  nanoparticles transportation due to electric field in a porous cavity with lid walls." *Journal of Molecular Liquids* 293 (2019): 111537.
15. Tahmasebiboldaji, Mohammad, Masoud Afrand, **Azeez A. Barzinjy**, Samir M. Hamad, and Pouyan Talebizadehsardari. "Forced convection around horizontal tubes bundles of a heat exchanger using a two-phase mixture model: Effects of nanofluid and tubes Configuration." *International Journal of Mechanical Sciences* 161 (2019): 105056.
16. Moghadam, Iman Panahi, Masoud Afrand, Boshra Mahmoudi, **Azeez A. Barzinjy**, and Pouyan Talebizadehsardari. "Curve-fitting on experimental data for predicting the thermal-conductivity of a new generated hybrid nanofluid of graphene oxide-titanium oxide/water." *Physica A: Statistical Mechanics and its Applications* (2019): 122140.
17. **Azeez A. Barzinjy** "Surface roughness reduction of Cr-films deposited from novel deep eutectic solvent: effect of acetylacetone." *Surface Review and Letters* 26, no. 02 (2019): 1850150.

18. **Azeez A. Barzinjy**, S. Mustafa, and H. H. J. Ismael. "Characterization of ZnO NPs Prepared from Green Synthesis Using Euphorbia Petiolata Leaves." *EAJSE* 4 (2019): 74-83.
19. Zhang, Rui, Ali Ghasemi, **Azeez A. Barzinjy**, Maliheh Zareei, Samir M. Hamad, and Masoud Afrand. "Simulating natural convection and entropy generation of a nanofluid in an inclined enclosure under an angled magnetic field with a circular fin and radiation effect." *Journal of Thermal Analysis and Calorimetry* (2019): 1-14.
20. **Azeez A. Barzinjy**, "Electrodeposition of Ni-Cr alloy from Ethaline Deep Eutectic Solvent." *ZANCO Journal of Pure and Applied Sciences* 28, no. 2 (2016).
21. Peng, Yeping, **Azeez A. Barzinjy**, Abdullah AAA Al-Rashed, Afshin Panjehpour, Mehdi Mehrjou, and Masoud Afrand. "Investigation the effect of pulsed laser parameters on the temperature distribution and joint interface properties in dissimilar laser joining of austenitic stainless steel 304 and Acrylonitrile Butadiene Styrene." *Journal of Manufacturing Processes* 48 (2019): 199-209.
22. Zhang, Rui, Ali Ghasemi, **Azeez A. Barzinjy**, Maliheh Zareei, Samir M. Hamad, and Masoud Afrand. "Simulating natural convection and entropy generation of a nanofluid in an inclined enclosure under an angled magnetic field with a circular fin and radiation effect." *Journal of Thermal Analysis and Calorimetry* (2019): 1-14.
23. **Azeez A. Barzinjy**, Haidar Jalal Ismael, Mohammed Abdullah Hamad, Samir Mustafa Hamad, and Mudhaffer Mustafa Ameen. "Mathematical Modeling of Mass Change in Biosensor Quartz Crystal Microbalance Using Matlab." *Eurasian Journal of Science & Engineering* 3, no. 2 (2017): 204-214.
24. Ismail, Haidar Jalal, **Azeez A. Barzinjy**, and Kadhim Qasim Jabbar. "Estimation of Nano-Pore Size Using Image Processing." *UHD Journal of Science and Technology* 1, no. 1 (2017): 38-44.
25. **Azeez A. Barzinjy** "Comparative Crystal Field Studies of Some Ligand of Cr<sup>3+</sup> Complexes." *Eurasian Journal of Science and Engineering* 3, no. 1 (2017): 109-116.
26. **Azeez A. Barzinjy**, Dalia A. Abdul, Faiq HS Hussain, and Samir M. Hamad. "Green synthesis of the magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticle using Rhus coriaria extract: a reusable catalyst for efficient synthesis of some new 2-naphthol bis-Betti bases." *Inorganic and Nano-Metal Chemistry* (2020): 1-10.
27. Manh, Tran Dinh, M. Jafaryar, Samir Mustafa Hamad, **Azeez A. Barzinjy**, Ahmad Shafee, Elham Abohamzeh, and Iskander Tlili. "Nanoparticles hydrothermal simulation in a pipe with insertion of compound turbulator analyzing entropy generation." *Physica A: Statistical Mechanics and its Applications* 542 (2020): 123038.
28. Ma, Yulin, Majid Jafari, **Azeez A. Barzinjy**, B. Mahmoudi, Samir M. Hamad, and Masoud Afrand. "The effect of inlet temperature on the irreversibility characteristics of non-Newtonian hybrid nano-fluid flow inside a minichannel counter-current hairpin heat exchanger." *Journal of Thermal Analysis and Calorimetry* (2019): 1-13.
29. **Azeez A. Barzinjy**, Salih Hassan Salih, Zana Ali Sadraden, and Herish M. Qadir. "Nanostructured device in sensing applications: a review." *Eurasian J. Sci. Eng* 4: 82-97.
30. **Azeez A. Barzinjy**, Haidar Jalal Ismail, and Kadhim Qasim Jabbar. "Spectrally Solar Selective Coatings in Absorbing Layers: Theoretical Investigation Using MATLAB." *Science* 9, no. 1 (2017): 1-9.
31. Bilbas, Hazhar Talaat Abubaer, Kareem F. Aziz, Sahar H. Nejad, and **Azeez A. Barzinjy**. "Phenomenon of depression and anxiety related to precautions for prevention among population during the outbreak of COVID-19 in Kurdistan Region of Iraq: based on questionnaire survey." *Journal of Public Health* (2020): 1-5.
32. Himdad H. Azeez, **Azeez A. Barzinjy**, "Biosynthesis zinc oxide nanoparticles using Apium graveolens L. leaf extract and its use in removing the organic pollutants in water" *Journal of Desalination and Water Treatment* 190 (2020):179-192.
33. **Azeez A. Barzinjy**, Samir Mustafa Hamad, Mahera Muhsin Esmaeel, Semih Khurshid Aydın, and Faiq Hama Saeed Hussain. "Biosynthesis and characterisation of zinc oxide nanoparticles from Punica granatum (pomegranate) juice extract and its application in thin films preparation by spin-coating method." *Micro & Nano Letters* 15, no. 6 (2020): 415-420.
34. **Azeez A. Barzinjy**, Azeez, H.H. Green synthesis and characterization of zinc oxide nanoparticles using Eucalyptus globulus Labill. leaf extract and zinc nitrate hexahydrate salt. *SN Appl. Sci.* 2, 991 (2020).
35. He, Wei, **Azeez A. Barzinjy**, S. Khanmohammadi, Amin Shahsavari, M. A. Moghimi, and Masoud Afrand. "Multi-objective optimization of a photovoltaic thermal-compound sensible rotary heat exchanger system using exergo-economic and enviro-economic approaches." *Journal of environmental management* 254 (2020): 109767.
36. **Azeez A. Barzinjy**, Hamad, S.M., Aydın, S. et al. Green and eco-friendly synthesis of Nickel oxide nanoparticles and its photocatalytic activity for methyl orange degradation. *J Mater Sci: Mater Electron* (2020).



37. DaqiqShirazi, Mohammadreza, **Azeez A. Barzinjy**, Samir M. Hamad, Rezvan Alamian, and Mostafa Safdari Shadloo. "A transient study on two phase adiabatic flow over micro circular pin heat sinks." *Computers & Mathematics with Applications* 81 (2021): 811-822.
38. **Azeez A. Barzinjy**, SM Hamad, AF Arkawazie, "Ionic Liquids: Sustainable Media for Nanoparticles" *Jordan Journal of Physics* 12 (2019): 45-62.
39. HJ Ismail, **Azeez A. Barzinjy**, SM Hamad "Analysis of Nanopore Structure Images Using MATLAB Software" *Eurasian Journal of Science and Engineering* 4 (3) (2019): 84-93.
40. **Azeez A. Barzinjy**, HJ Ismael, SM Hamad "A Theoretical Analysis of Transport Characteristics of Nanoparticles in Porous Medium" *Eurasian Journal of Science and Engineering* 4 (3) (2019): 3-18
41. **Azeez A. Barzinjy**, N Hama-Amin, A Othman "Mathematical Modeling of the Impact of Cell Phone Radiation on the Human Brain" *Eurasian Journal of Science & Engineering* 3 (3) (2018): 52-65.
42. Ismail, Haidar J., and **Azeez A. Barzinjy**. "Efficient Enhancement of ultrasound images of abnormal kidney 3." *Ultrasound* (2018): 44-45.
43. **Azeez A. Barzinjy**, MA Hamad, HJ Ismael, SM Hamad "Enhancement of emission and directionality of Light Emitting Diode using Surface Plasmon Resonance" *ZANCO Journal of Pure and Applied Sciences* 29 (4) (2017): 201-209.
44. **Azeez A. Barzinjy**, Kadhim Q. Jabbar, Haidar J. Ismael, Mohammed A. Hamad, and Samir M. Hamad. "Mathematical Modeling of Charge and Discharge Process in Lithium Ion Batteries Using COMSOL Multiphysics." *Polytechnic Journal* 7 (4) (2017).
45. **Azeez A. Barzinjy**, Masoud M. Zankana "Electrodeposition of metals and their alloys using different deep eutectic solvents based on choline chloride" *Journal of Garmian University* 2 (1) (2017): 474-484.
46. **Azeez A. Barzinjy**, Haidar Jalal Ismail, and Mudhaffer Mustafa Ameen. "Mathematical Modeling of Sampling, Quantization, and Coding in Sigma Delta Converter using MATLAB." *UHD Journal of Science and Technology* 1, no. 1 (2017): 17-22.
47. **Azeez A. Barzinjy** "Theoretical analysis of normal and superconducting strip-line parameters" *Atti della Fondazione Giorgio Ronchi*, (2012):576-591.
48. Nasier, N. M., **Azeez A. Barzinjy**, and H. J. Ismail. "Theoretical investigation on traps effect on solar cell characteristics." *Atti della Fondazione Giorgio Ronchi* 66, no. 5 (2011): 715-722.
49. **Azeez A. Barzinjy** "Theoretical study of the electromagnetic wave behavior in Josephson transmission line using MATLAB model." *Tikrit Journal of Pure Science* 17, no. 4 (2012): 156-164.
50. **Azeez A. Barzinjy**, Saeed O. Ibrahim "Some parametric study for low and HTS strip-line" *Zanko journal of pure and applied sciences* 18 (3) (2006): 90-108.
51. Mustafa Hamad, Samir, **Azeez A. Barzinjy**, Haidar Jalal Ismael, and Mohammed A. Hamad. "The Effect of RF-Plasma Power on the Growth of III-Nitride Materials." *Eurasian Journal of Science and Engineering* 4, no. 3 (2019): 66-73.
52. **Azeez A. Barzinjy**, SM Hamad, HH Azeez, "Structure, Synthesis and Applications of ZnO Nanoparticles: A Review" *Jordan Journal of Physics* 13 (2020): 123-135.
53. **Azeez A. Barzinjy**, SM Hamad, AF Arkawazie, "Physical, thermal and structural properties of 1ChCl: 2 Urea based ionic liquids" *Moroccan Journal of Chemistry* 9 (2021): 45-62.
54. Taher, Shivan Jawhar, **Azeez A. Barzinjy**, and Samir Mustafa Hamad. "The Effect of Deposition Time on the Properties of Cu<sub>2</sub>O Nanocubes Using an Electrochemical Deposition Method." *Journal of Electronic Materials* 49, no. 12 (2020): 7532-7540.
55. Abdulrahman, Ahmed Fattah, Sabah Mohammed Ahmed, Samir Mustafa Hamad, and **Azeez A. Barzinjy**. "Effect of Growth Temperature on Morphological, Structural, and Optical Properties of ZnO Nanorods Using Modified Chemical Bath Deposition Method." *Journal of Electronic Materials* 3(2021): 1-14.
56. **Azeez A. Barzinjy**, Samir Mustafa Hamad, Ahmed Fattah Abdulrahman, Safiya Jameel Biro, and AbdulBasit Ali Ghafor. "Biosynthesis, characterization and mechanism of formation of ZnO nanoparticles using *Petroselinum crispum* leaf extract." *Current Organic Synthesis* 17, no. 7 (2020): 558-566.
57. Mustafa Hamad, Samir, **Azeez A Barzinjy**, Haidar Jalal Ismael, and Mohammed A Hamad. "The Effect of RF-Plasma Power on the Growth of III-Nitride Materials." *Eurasian Journal of Science and Engineering* 4, no. 3 (2019): 66-73.
58. Abdulrahman, A.F., Ahmed, S.M., **Azeez A Barzinjy**, Hamad, S.M., Ahmed, N.M., Almessiere, M.A. Fabrication and Characterization of High-Quality UV Photodetectors Based ZnO Nanorods Using Traditional and Modified Chemical Bath Deposition Methods. *Nanomaterials* 2021, 11, 677. *Nanomaterials* 2021, 11(3), 677.
59. **Azeez A Barzinjy**, Kareem F. Aziz, Bashdar M. Hussen, Saleem S. Qader, Samir M. Hamad, Arez S. Qader, and Abdullah L. Jamal. "Fear of COVID-19 as a precautionary measure to prevent the epidemic among the population of the Kurdistan Region/Iraq: based on a questionnaire survey." *Journal of Public Health* (2021): 1-8.

60. Esgandari, M., **Azeez A Barzinjy**, Rostami, A., Rostami, G. and Dolatyari, M., 2022. Solar cells efficiency enhancement using multilevel selective energy contacts (SECs). *Optical and Quantum Electronics*, 54(2), pp.1-9.
61. Mustafa, S.M., **Azeez A Barzinjy**, Hamad, A.H. and Hamad, S.M., 2021. Biosynthesis of quantum dots and their usage in solar cells: insight from the novel researches. *International Nano Letters*, pp.1-13.
62. Shnawa, Bushra H., Samir M. Hamad, **Azeez A. Barzinjy**, Payman A. Kareem, and Mukhtar H. Ahmed. "Scolicidal activity of biosynthesized zinc oxide nanoparticles by *Mentha longifolia* L. leaves against *Echinococcus granulosus* protoscolices." *Emergent Materials* (2021): 1-11.
63. Rahimzadeh, Chiya Y., Ahmed Salih, and **Azeez A. Barzinjy**. "Systematic Multiscale Models to Predict the Compressive Strength of Cement Paste as a Function of Microsilica and Nanosilica Contents, Water/Cement Ratio, and Curing Ages." *Sustainability* 14, no. 3 (2022): 1723.
64. Aspoukeh, P.K., **Azeez A. Barzinjy** and Hamad, S.M., 2021. Synthesis, properties and uses of ZnO nanorods: a mini review. *International Nano Letters*, pp.1-16.
65. Esgandari, M., **Azeez A. Barzinjy**, Rostami, A., Rostami, G. and Dolatyari, M., 2022. Solar cells efficiency enhancement using multilevel selective energy contacts (SECs). *Optical and Quantum Electronics*, 54(2), pp.1-9.
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## TEACHING EXPERIENCE AND ADVISING

- General Physics, (Undergraduate) Mathematic Department College of Education, University of Salahaddin Erbil-Iraq.
- General Physics, (Undergraduate) Mathematic Department College of Science, University of Soran Erbil-Iraq. Physics, (High school) Qalla College for gifted students.
- Analytical Mechanics, (Undergraduate) Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.
- Quantum Mechanics, (Undergraduate) Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.
- Modern Physics, Thermodynamics, Wave and Optics, Advanced Mechanics, Quantum Mechanics, (Undergraduate) Department of Physics Education, Faculty of Education, TIU, Erbil-Iraq.
- Materials Science and Quantum Mechanics, (Undergraduate) Department of Physics, College of Science, Raparin University Sulaimani-Iraq.
- Modern Physics lab. (Undergraduate) Department of Physics, College of Education, University of Salahaddin Erbil-Iraq.
- Optic lab and Modern Physics lab. (Undergraduate) Department of Physics Education, Faculty of Education, TIU, Erbil-Iraq.
- Materials Science (M. Sc. Student) Department of Physics, College of Science, University of Salahaddin Erbil-Iraq.
- Nanoscience and Nanotechnology (PhD and M. Sc. Student) Department of Physics, College of Science, University of Salahaddin Erbil-Iraq.
- Nanoscience and Nanotechnology (PhD and M. Sc. Student) Scientific Research center, Soran University, Iraq,
- Advising more than 60 projects of BSc students.
- Supervising several M. Sc. And PhD Students. Discussion committee in many PhD and MSc thesis.

## RECENT CONFERENCES & WORKSHOPS

1. Jordan 22-24 May 2023  
<https://www.just.edu.jo/Conferences/icam2023/Pages/Committees.aspx>
2. France 10-11 Jul 2023  
<https://materialssciencemeet.com/keynote-speakers>
3. Italy 21-23 March 2024  
<https://avouchconferences.com/2024/physics/#Speakers>
4. Switzerland (online) 5-19 May 2023  
<https://iocn2023.sciforum.net/>
5. Spain & Virtually (Online) August 16-17, 2023  
<https://scitechglobalmeets.com/nanotechnology/speakers>
6. Turkey 13-14 June 2023 (Keynote)  
<http://2023.pcfm-conference.com/speakers.html>
7. Turkey 13-14 June 2023 (Scientific Committee)  
<http://2023.pcfm-conference.com/committee.html>
8. Erbil (ICOWOBAS 2023) May 8-10, 2023  
<https://conferences.tiu.edu.iq/icowobas/committees/>
9. Erbil (ICOWOBAS 2023-Workshop) May 08, 2023 (Dedaman Hotel, Erbil)  
<https://education.tiu.edu.iq/physics/international-workshop-on-green-technology/>
10. Italy May 22-23, 2023 (Hybrid)  
<https://materialsscience.averconferences.com/speakers.php>
11. Japan (Green Chemistry 2023) May 22-23, 2023 (Japan or Virtually)  
<https://magnusconferences.com/green-chemistry/speakers/2023>
12. Soran University (ICEANS-2023) 25-27th of October 2023

<https://sites.google.com/soran.edu.iq/iceans-2023/committees?authuser=0>

[https://conferences.ieee.org/conferences\\_events/conferences/conferencedetails/58413](https://conferences.ieee.org/conferences_events/conferences/conferencedetails/58413)

<https://www.ieee.org/conferences/organizers/conf->

13. Turkey Scientific Committee (NANOMACH) April 13-19, 2023

<http://www.nanomach.org/speakers/committees>

14. Singapore (ICLED-2023) JUNE 29-JULY 1, 2023

<https://www.icled2023.com/speakers>

15. Germany September 13-14, 2023

<https://nanointellec.peersalleyconferences.com/academic-speakers>

16. PRAGUE, CZECH REPUBLIC MAY 13-15, 2024

<https://www.albedomeetings.com/2024/civilmeet#speakers>

17. Denmark Program Committee Members (CIVIE 2023) April 29-30, 2023

<https://www.meche2023.org/civie/committee>

18. Jordan (German-Jordanian University Madaba) June 9 - 11, 2022

<https://sites.google.com/view/humboldt-kolleg-jordan-hcws22/invited-speakers?authuser=0>

19. Munich, Germany (UNITE SCIENTIFIC CHEMISTRY CONFERENCE) Jul 18- 19, 2024.

<https://chemistry.uniteexplores.com/speakers>

20. MALATYA - TÜRKIYE (7th International Conference on Physical Chemistry & Functional Materials)

16-17 May 2024 Malatya Turgut Özal University

<https://2024.pcfm-conference.com/speakers.html>

### **Workshops**

1. Erbil, 6th International Workshop on Nanotechnology, December 22nd, 2022

<https://tiu.edu.iq/6th-international-workshop-on-nanotechnology/>

2. Erbil, 5th International Nanotechnology Workshop, January 15th, 2022

<https://tiu.edu.iq/5th-international-nanotechnology-workshop-2/>

3. Soran, 1st International Workshop on Nanotechnology Prospects & Development, 13th March 2023

<https://www.facebook.com/media/set/?vanity=SoranUniversity&set=a.706554127928035>

### **Awards**

Top 2% scientists in the world in "Materials Science" field by Stanford University 2023.

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