

Academic Curriculum Vitae



Personal Information:

Full Name: Karwan Wasman Qadir
Academic Title: PhD_Assistant Professor
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Academic Links:

[Google Scholar](#)

[ORCID Link](#)

[ResearcherID](#)

[SUE link](#)

[ResearchGate](#)

Education:

- **2005** B.Sc. in Physics at Salahaddin University- Erbil, 44002 Erbil, Kurdistan Region-Iraq.
- **2010** M.Sc. in Solar radiation at Salahaddin University- Erbil, 44002 Erbil, Kurdistan Region-Iraq. with the thesis entitled: "Study and Analysis of Global Solar Radiation in Kurdistan Region-Iraq". Supervised by: Associate Prof. Dr. Mohammed Aziz Saeed.
- **2016** PhD in Experimental Physics (Physics)-Organic Electronics at University of Malaya, Kuala Lumpur, Malaysia. with the thesis entitled "Study of Organic Semiconductor Based Photovoltaic Devices: Light Sensors and Solar Cells". Supervised by: Associate Prof. Dr. Khaulah Sulaiman.
- **2018** Passed in a "**Research Methodology**" course, Lund University, Sweden (7.5 ECTS).
- **2020** Passed in all modules of the training "**Implementing a new pedagogical Model – Professional development programme**" at Häme University of Applied Sciences, Finland (30 ECTS).

Employment:

- Department of Physics, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq.

- PhD degree earned at Low Dimensional Materials Research Centre (LDMRC), Department of Physics, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia.
- [Editorial Manager at Polytechnic Journal](#), Erbil Polytechnic University
- Head of Scientific Journal Department, Erbil Polytechnic University

Qualifications

- Teaching qualifications; Professionally trained, licensed, and experienced in teaching and enhancing students' appreciation of physics, the science of matter and energy and their interactions.
- Professional in Windows and Microsoft Office - 2004
- MapInfo Program - 2010
- Teaching Method - 2010
- Civil Defense - 2011
- e-learning - 2011
- MATLAB Program - 2011
- EndNote (software) - 2012
- Origin (software) - 2013
- Turnitin (Anti Plagiarism Software) - 2017
- Research Methodology - 2018
- Workshop on **“Dye-sensitized Solar Cells: Theory and Laboratory Practical”**, Centre for Ionics, Department of Physics, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia. 20th & 21st August, 2013.
- Workshop on **“Conducting a Literature Search & Writing Review Paper”**, Centre for Research Services, University of Malaya, 50603 Kuala Lumpur, Malaysia. 4th & 5th Nov, 2015.
- Workshop on **“How to Publish in High Quality ISI-Indexed Journal”**, Faculty of Computer Science and Information Technology, University of Malaya, 50603 Kuala Lumpur, Malaysia. November 17th & 18th, 2015.
- Workshop on **“Impedance Spectroscopy: Theory, Applications and Laboratory Instruction”** Centre for Ionics, Department of Physics, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia. April 12th to 14th, 2016.
- As an organizing committee member for **“Workshop on Nano-Materials for Energy and Environment”**, Department of Physics, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, Malaysia. April 21st, 2016.

- **“IELTS Preparation Course”**, Britannia Educational Services, Cambridge College, 44001 Erbil, Kurdistan Region-Iraq. September 18th to 28th 2016.
- Workshop on **“Online Databases and their Role in Advancing Scientific Research in Higher Education”**, College of Science, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. May 17th & 18th 2017.
- **“Training Workshop on the use of Turnitin (Anti Plagiarism Software)”**, College of Science, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. December 2nd to 4th 2017.
- **“Learning Management System (LMS) Training Workshop”**, Research Center, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. April 16th 2018.
- **“Pedagogical Training for Professional Teacher Development”** 12 ECTS, Häme University of Applied Sciences (HAMK), Hämeenlinna, Finland. 1st Nov to 15th Dec 2018.
- As an organizing committee member in **“Academic Research Stratagems Workshop”**, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. 20th and 21th Jan 2019.
- As an organizing committee member for **“MATLAB for Primary and Medium Level Workshop”**, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. 26th and 27th Mar 2019.
- **“Advanced Marketing and Sales Course”** by View Enterprise in Erbil, Iraq. 30th Oct to 3rd Nov 2019.
- As a trainer of **“Zoom & Edmodo in Online teaching Workshop”** for Teachers at Dilman Language Center in Erbil”
- As an organizing committee member in **“Student Centered Learning”** workshop, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. 24th April 2021.

Teaching experience:

Undergraduate, Diploma, and MSc & PhD Teaching

- Teaching Physics Science at Secondary School from 2-6 secondary classes, at Badawa Private School, 44001 Erbil, Kurdistan Region-Iraq, (2004-2005).
- Graded quizzes, prepared lab materials and experiments, then assisted students in Properties of Matter Lab, Atomic Lab. and Electronic Lab at Department of Physics, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq, for (Year 1) and (Year 3) undergraduate (2005-2012).
- Graded quizzes, prepared lab materials and experiments, then assisted students in Nuclear Lab at Department of Physics, College of Science, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq, for (Year 4) undergraduate (2011-2012).
- Graded quizzes, prepared lab materials and experiments, then assisted students in Optics and Laser Lab at Department of Communication, Foundation of Technical Education-Hawler, 44001 Erbil, Kurdistan Region-Iraq, for (Year 2) (2010-2012).

- Lecturer of Geophysics course (Year 4) at department of physics, college of education, Salahaddin University-Erbil, 44002 Erbil, Iraq (2016-2017).
- Supervisor of atom lab. (Year 3) at Department of Physics, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. (2016-2017).
- Lecturer of Electronics course (Year 3), at physics department, faculty of education, Ishik University, Erbil 44001, Iraq (2016-2018).
- Lecturer of Electronics course (Year 3) at department of physics, college of education, Salahaddin University-Erbil, 44002 Erbil, Iraq (2017- 2018).
- Supervisor of electronics lab. (Year 3) at Department of Physics, College of Education, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. (2016- 2018).
- Supervisor of electronics lab. (Year 3) at physics department, faculty of education, Ishik University, Erbil 44001, Iraq (2017-2018).
- Teaching **Pedagogy course; Information and communications technology (ICT) module** (MSc & PhD) at the Cultural Center, Salahaddin University-Erbil, 44002 Erbil, Kurdistan Region-Iraq. (2018- Present).
- Lecturer of Mathematics (Foundation Year) at Faculty of Engineering, Department of Petroleum, Palacký University-Erbil Campus, 44001 Erbil, Kurdistan Region-Iraq. (2019 to 2020).
- Lecturer of Research Methodology course (Year 4) at department of physics, college of education, Salahaddin University-Erbil, 44002 Erbil, Iraq (2022-2023).
- Lecturer of Meteorology course (Year 1) at department of physics, college of education, Salahaddin University-Erbil, 44002 Erbil, Iraq (2022-2023).

Research and publications

1. H. Y. Abdullah, I. Hossain, I. M. Ahmed, S. T. Ahmad, [W. Q. Karwan](#), M. K. Kasimin, J. C. Chong, K. K. Viswanathan, & N. Ibrahim. **International Journal of the Physical Sciences** Vol. 6(4), pp. 901-907, "Calculation of 8+ Isomers of even-even Nuclei 76Ni to 94Pd for N = 48 neutrons". **18 February, 2011**. <http://www.academicjournals.org/IJPS>. ISSN 1992 - 1950 ©2011 Academic Journals (Impact Factor: 0.54).
2. [Karwan wasman qadir](#), & Mohammed Aziz Saeed. **Conference Paper**: 3rd International Scientific Conference of Salahaddin University-Erbil, at Salahaddin University-Hawler, 44002 Erbil, Kurdistan Region-Iraq. No: S-165, "Study and Analysis of Global and Extraterrestrial Solar Radiation Over Kurdistan Region-Iraq" **Oct. 2011**.
3. [Karwan Wasman Qadir](#), Ahmad, Z., & Sulaiman, K. (2014). "Performance enhancement of NiTsPc based photo sensor using treated TiO₂ NPs film". **Journal of Nanoparticle Research**, 16(11), 1-8. doi:[10.1007/s11051-014-2705-7](https://doi.org/10.1007/s11051-014-2705-7), (Impact Factor: 2.184).
4. [Karwan Wasman Qadir](#), Ahmad, Z., & Sulaiman, K. (2015). Thermal Annealing Effect on the Optical, Electrical and Morphological Properties of the PBTTT-C₁₂:PC₇₁BM Blend Films. **Journal of Solar Energy Engineering**, 137(3), 034503-034503. doi:[10.1115/1.4029230](https://doi.org/10.1115/1.4029230), (Impact Factor: 1.61).
5. [Karwan Wasman Qadir](#), Zubair Ahmed, & Khaulah Sulaiman, **Synthetic Metals**, 2016, (Impact Factor: 2.252).
6. [Karwan Wasman Qadir](#), Design thinking for a new generation of umbrella, (2016). Smart Hands Free Umbrella. https://www.researchgate.net/publication/306255669_Smart_Hands_Free_Umbrella
7. Qayyum Zafar, Shahino Mah Abdullah, Mohamad Izzat Azmer, Mansoor Ani Najeeb, [Karwan Wasman Qadir](#), Khaulah Sulaiman (2017). Influence of relative humidity on the

- electrical response of PEDOT:PSS based organic field-effect transistor. **Sensors and Actuators B: Chemical**, (Impact Factor: 5.401). <https://doi.org/10.1016/j.snb.2017.09.076>
8. Wrya O. Karim, [Karwan Wasman Qadir](#), Shujahadeen B. Aziz, and Qayyum Zafar, "Proton Ion Conducting Solid Polymer Electrolytes Based on Chitosan Incorporated with Various Amounts of Barium Titanate (BaTiO₃)". (May 2018). **International journal of electrochemical science**, (Impact Factor: 1.469). [doi: 10.20964/2018.06.38](https://doi.org/10.20964/2018.06.38)
 9. Mahdi Alizadeh, Goh Boon Tong, Muhammad Shahid Mehmood, [Karwan Wasman Qadir](#), Babak Shokri, "Band Engineered Al-rich InAlN Thin Films as a Promising Photoelectrode for Hydrogen Generation from Solar Water Splitting". (June 2018). **Solar Energy Materials and Solar Cells**, (Impact Factor: 5.018). [DOI: 10.1016/j.solmat.2018.05.058](https://doi.org/10.1016/j.solmat.2018.05.058)
 10. Mohamad Izzat Azmer, Qayyum Zafar, [Karwan Wasman Qadir](#), Khaulah Sulaiman, Tahani M. Bawazeer and Mohammad S. Alsoufi, "Organic humidity sensing film optimization by embedding inorganic nano-anatase TiO₂ powder". (June 2018) **Applied Physics A**, (Impact Factor: 1.604). doi.org/10.1007/s0033
 11. Rupak Wasman Qadir and [Karwan Wasman Qadir](#), "Shape Effects on Light Absorption and Scattering for Nanoparticles in Thin Organic Films" Volume 4, Issue 3 (Special Issue on Nanotechnology); (Jan 2019) **Eurasian Journal of Science & Engineering (EAJSE)**. [doi: 10.23918/eajse.v4i3sip49](https://doi.org/10.23918/eajse.v4i3sip49)
 12. Mahdi Alizadeh, Boon Tong Goh, [Karwan Wasman Qadir](#), Hamid Yousefi, Muhammad Shahid Mehmood, and Reza Rasuli, "Improvement of polycrystalline InN thin films properties by localized ion source under low RF plasma ambient" (August 2019, Volume 30, Issue 16, pp 15534–15543) **Journal of Materials Science: Materials in Electronics**. <https://doi.org/10.1007/s10854-019-01930-9>
 13. [Karwan Wasman Qadir](#), Qayyum Zafar, Nader Ale Ebrahim, Zubair Ahmad, Khaulah Sulaiman, Rizwan Akram and Mohammad Khaja Nazeeruddin, "Methodical review of the literature referred to the dye-sensitized solar cells: Bibliometrics analysis and road mapping". (September 2019) **Chinese Physics B**, (Impact Factor: 1.469). <https://doi.org/10.1088/1674-1056/ab4577>
 14. Rupak Wasman Qadir, [Karwan Wasman Qadir](#) and Shujahadeen B. Aziz, "Effect of Various Shapes of Silver Nanoparticles on The Performance of Plasmonic Solar Cells Active Layer" Vol. 31, no. s4, Oct. 2019, pp. 44-48, **ZANCO Journal of Pure and Applied Sciences (ZJPAS)**, (DOAJ). DOI: <https://doi.org/10.21271/zipas.31.s4.7>
 15. Shoaib Mallick, Zubair Ahmad, [Karwan Wasman Qadir](#), Abdul Rehman, R.A. Shakoor, Farid Touati, and S.A. Al-Muhtaseb, "Effect of BaTiO₃ on the sensing properties of PVDF composite-based capacitive humidity sensors". (2 October 2019) **Ceramics International**, (Impact Factor: 3.450). <https://doi.org/10.1016/j.ceramint.2019.09.291>
 16. Mahdi Alizadeh Kouzeh Rash, Goh Boon Tong, [Karwan Wasman Qadir](#), Muhammad Shahid Mehmood and Reza Rasuli, "Cu₂O/InGaN heterojunction thin films with enhanced photoelectrochemical activity for solar water splitting". (24 April 2020) **RENEWABLE ENERGY**, (Impact Factor: 5.439). <https://doi.org/10.1016/j.renene.2020.04.107>
 17. S. M. Zafar Iqbal, [Karwan Wasman Qadir](#), Hewa Y Abdullah, Ali M Dastgheib, Muhammad Mehran Bashir, "Characterization of Solar Absorber Coated by Reduced Graphene Oxide Polymer Composite on Metal Sheets". (18 Jan 2021) **International Journal of Thermophysics**, (Impact Factor: 0.794). <https://doi.org/10.1007/s10765-020-02785-7>
 18. [Karwan Wasman Qadir](#), "A Simulation Study on The Effect of Size Gold Nanoparticles on Broadband Light Absorption in Dye-Sensitised Solar Cells". (4 May 2021) **REVISTA MEXICANA DE FÍSICA**, (Impact Factor: 0.527). <https://doi.org/10.31349/RevMexFis.67.509>
 19. Zahid Farooq, Muhammad Yaseen, Mariyam Zulfqar, Mian HR Mahmood, Rizwan Akram, [Karwan Wasman Qadir](#) and Qayyum Zafar, "Investigation of the Relative Humidity-Sensing Performance of Capacitive and Resistive type Sensor based on TDTBPPNi Metalloporphyrin

- Dielectric Layer**". (24 May 2021) **BULLETIN OF MATERIALS SCIENCE**, (Impact Factor: 1.392). <https://doi.org/10.1007/s12034-021-02443-0>
20. Rupak Wasman Qadir, Nabaz Asaad, [Karwan Wasman Qadir](#), Saddon T Ahmad & Hewa y Abdullah, "Relationship between radon concentration and physicochemical parameters in groundwater of Erbil city, Iraq". (1 Dec 2021) **Journal of Radiation Research and Applied Sciences**, (Impact Factor: 1.770). <https://doi.org/10.1080/16878507.2020.1856588>
 21. Rizwan Akram, Ziyad M Almohaimeed, Adeela Bashir, Muhammad Ikram, [Karwan Wasman Qadir](#), Qayyum Zafar, "Synthesis and characterization of pristine and strontium-doped zinc oxide nanoparticles for methyl green photo-degradation application". (3 May 2022) **Nanotechnology**, (Impact Factor: 3.874). <https://doi.org/10.1088/1361-6528/ac6760>
 22. Rizwan Akram, Adeena Fatima, Ziyad M Almohaimeed, Zahid Farooq, [Karwan Wasman Qadir](#), and Qayyum Zafar. "Photocatalytic Degradation of Methyl Green Dye Mediated by Pure and Mn-Doped Zinc Oxide Nanoparticles under Solar Light Irradiation". (15 April 2023) **Adsorption Science & Technology**, (Impact Factor:4.373). <https://doi.org/10.1155/2023/5069872>
 23. F Shafiq, RW Qadir, [KW Qadir](#), Q Zafar. "Development of highly sensitive relative humidity sensor based on nanoporous PCPDTBT thin film". (1 Sep 2023) **Synthetic Metals**, (Impact Factor: 4.4). <https://doi.org/10.1016/j.synthmet.2023.117429>
 24. Nasar Ahmed, Zakia Khalil, Zahid Farooq, Khizar-ul-Haq, Shabnam Shahida, Ramiza, Pervaiz Ahmad, [Karwan Wasman Qadir](#), Rajwali Khan, Qayyum Zafar. "Structural, Optical, and Magnetic Properties of Pure and Ni–Fe-Codoped Zinc Oxide Nanoparticles Synthesized by a Sol–Gel Autocombustion Method". (19 Dec 2023) **ACS Omega**, (Impact Factor: 4.1). <https://doi.org/10.1021/acsomega.3c01727>

Conferences and courses attended

- ❖ The 3rd International Scientific Conference of Salahaddin University-Erbil, (18-20 Oct 2011), www.su-erbil2011.org or <http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=15799©ownerid=23721>. Paper no: S-165 Available at: https://www.researchgate.net/profile/Karwan_Qadir
- ❖ The 3rd ISESCO International Workshop and Conference On Nanotechnology 2012 (**IWCN2012**), (6-7 December 2012). <http://www.ukm.my/iwcn2012/>.
- ❖ 4th International Conference on Functional Materials & Devices 2013 (**ICFMD**). (8 - 11 April 2013). PO43 (Investigation of new hydrazone dyes for dye-sensitized solar cells). <http://umconference.um.edu.my/ICFMD2013>
- ❖ 5th Molecular Materials Meeting (**M3**) in Singapore (03-05 August 2015) (Oral). <https://www.a-star.edu.sg/imre/Events/M3-Conference/5th-Molecular-Materials-Meeting.aspx>
- ❖ 6th International Conference and Workshop on Basic and Applied Sciences (6th **ICOWOBAS**) in Kurdistan-Iraq (18th and 19th March 2017). (attended as a committee member) <http://icowobas2017.su.edu.krd/>
- ❖ Applied Nanotechnology and Nanoscience International Conference – (**ANNIC 2017**) in Rome-Italy (18th to 20th Oct 2017). (attended) <http://premc.org/conferences/annic-nanotechnology-nanoscience/>

- ❖ 5th International Conference on Applied Science, Energy and Environment (**ICASEE2018**).
Venue: Ishik University, 44001 Erbil, Iraq (April 7th-8th, 2018) (Oral: Effect of Silver Nanoshape's Shape on The Performance of Plasmonic Solar Cells Active Layer).
<http://www.ishik.edu.iq/conf/icasee/>.
- ❖ International Conference on Simulation of Organic Electronics and Photovoltaics (**SimOEP 2020**). Venue: Online (Switzerland). (August 31 - September 2, 2020).
(attended) <https://www.zhaw.ch/de/engineering/institute-zentren/icp/veranstaltungen/simoep/>.
- ❖ Participation as keynote speaker in the 1st International Conference of the Advanced Research in Pure and Applied Sciences (**ICARPAS 2021**). Venue: Online (Samawa-Iraq).
College of Science /Al-Muthanna University for the period March 24th-25th 2021.
<https://sci.mu.edu.iq/conference/>
- ❖ 9th International Conference and Workshop on Basic and Applied Sciences – (**9th ICOWOBAS-2023**). Venue: Tishk International University, Erbil, KRG, Iraq (May 8-10, 2023) (attended) <https://conferences.tiu.edu.iq/icowobas/>

Professional memberships

- Member of detecting fake Scientific and non-scientific Journals at Salahaddin University **2017 to Present**
- Member of Higher Education Examinations committee at College of Education **2018 to Present**
- Member of National University Ranking at Salahaddin University **2018 to 2020**
- Reviewer of; [\(Springer\) Iranian Journal of Science and Technology, Transactions A: Science.](#) **2018 to Present**
- Reviewer of; [ZANCO Journal of Pure and Applied Sciences, Ionics, Baghdad Science Journal, Journal of Zankoy Sulaimani](#) and [ARO](#) **2018 to Present**
- Member of committee (Viva Voce), “Design and Sizing of Stand–Alone photovoltaic Electricity System for Rural Electrification at Ranyah”, Faculty of Science and Health, Koya University, Iraq. **June 26th 2018**
- Member of Health and Safety committee at College of Education **2019 to Present**
- [Editorial Manager at Polytechnic Journal](#), Erbil Polytechnic University **2023**

Professional Social Network Accounts:

- [Google Scholar](#)
- [ORCID](#)
- [ResearchGate](#)
- [Linkedin](#)
- [Twitter](#)
- [Aminer](#)