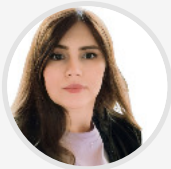


Shelan M. Mustafa



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🌐 academicstaff.epu.edu.iq/barewabar/profile 🔗 [linkedin.com/feed](https://www.linkedin.com/feed/)
🔍 scholar.google.com/citations?user=k7xiPUYAAAAJ&hl=en

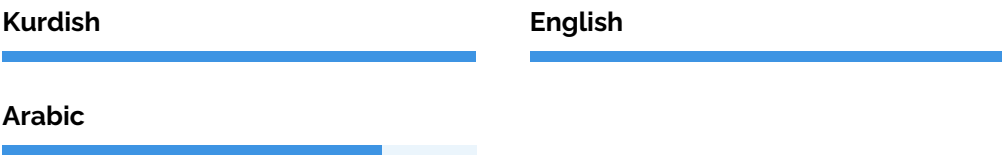
Education

- 2001 ■ **BSc, General Physics.**
[University of Salahaddin, Erbil/Iraq](#)
- 2011 ■ **MSc, Nanoscience.**
[University of Salahaddin, Erbil/Iraq](#)
- 2021 - Present ■ **PhD student**
[Soran University, Erbil/Iraq](#)

Employment

- 2011 - Present ■ **Lecturer**
[Erbil Polytechnic University, Erbil Technology College, Automation Industrial Technology Engineering Department, Erbil](#)
- Oct 2014 - Apr 2021 ■ **Head of Electricity Department**
[Erbil Technology College, Erbil/Iraq](#)
- Oct 2012 - Oct 2013 ■ **Vice Head of Road Construction Department**
[Erbil Institute Technology, Erbil/Iraq](#)
- Nov 2011 - Oct 2012 ■ **Head of Quality assurance committee**
[Road Constriction Dept, ETI, Erbil](#)
- Sep 2007 - Nov 2008 ■ **Supervisor in Secret Registry Unit**
[Salahaddin University, College of Science, Erbil/Iraq](#)
- Sep 2004 - Sep 2007 ■ **IT manager**
[Alamad General contracts CO. L.L.C./Erbil Branch, Erbil/Iraq](#)

Languages



Published Manuscripts:

- An environmentally friendly green synthesis of Co 2 + and Mn 2 + ion doped ZnO nanoparticles to improve solar cell efficiency, Journal of Environmental Chemical Engineering,2023.
- Green synthesis of Ni doped ZnO nanoparticles using dandelion leaf extract and its solar cell applications, Ceramics International,2022.
- Betaine-based deep eutectic solvents mediated synthesis of zinc oxide nanoparticles at low temperature, Ceramics International,2022.
- Biosynthesis of quantum dots and their usage in solar cells: insight from the novel researches, International Nano Letters,2021
- Feasibility of Using Nanoparticles of SiO2 to Improve the Performance of Recycled Aggregate Concrete, May 2018, Advances in Materials Science and Engineering 2018(3):1-11
- Application of Nano Materials to Enhance Mechanical Performance and Microstructure of Recycled Aggregate Concrete, January 2018, conference paper ICE.

Course Taught

- Engineering Mechanics
- Contraction Materials
- Engineering Mathematics
- Electronics
- Thermodynamics

Conferences, symposiums and workshops participated and attended:

2nd international engineering Conference of EPU & ishik university in civil and computer engineering.
[Ishik University, Iraq, Erbil, February 20-21, 2016.](#)

3rd international engineering Conference of EPU& Ishik University in civil and computer engineering.
[Ishik University, Iraq, Erbil, February 26-27, 2017.](#)

4th international engineering Conference of EPU & Ishik University in civil and computer engineering.
[Ishik University, Iraq, Erbil, February 26-27, 2018.](#)

1st Symposium for research and publication.
[Erbil Polytechnic University, Iraq, Erbil, March 9-10, 2016.](#)

2nd Symposium for research and publication.
[Erbil Polytechnic University, Iraq, Erbil, May 2-3, 2017.](#)

3rd Symposium for research and publication.
[Erbil Polytechnic University, Iraq, Erbil, May 10, 2018.](#)

Workshops titled @the importance of writing and publishing high profile scientific researches.
[Polytechnic Research Center, Iraq, Erbil, Dec 2017 & Jan 2018.](#)

2nd National Nanotechnology Workshop.
[Ishik University, Iraq, Erbil, December 23-24, 2018..](#)

5th international engineering Conference of EPU & Ishik University in civil and computer engineering.
[Ishik University, Iraq, Erbil, Jun 23-25, 2019.](#)

National scientific conference of Kurdistan technical education reform , toward Bologna process implementation.
[Erbil Polytechnic Univeersity, Iraq, Erbil, August 28-29, 2019.](#)

Workshop titled@ European Credit Transferer System & its Application.
[Ocan University, Turkey, Istanbul, July 8-10, 2019.](#)

Workshop titled@ Internationalization and Sustainability in Higher Education.
[Erbil Polytechnic University, Iraq, Erbil, November 4, 2019.](#)

Plenareno Material Science and Nanotechnology Conference.
[Plenareno, Turky, Istanbul, November 16-17, 2020.](#)

1st international scientific virtual conference "corona Pandemic Present & Future".
[Vertual, Nov 11-12, 2020.](#)

36th International Conference on Advanced Nanotechnology.
[Conference Series Ltd, UAE, Dubai, September 14-15, 2020.](#)

Concluding the TIGRIS Project - Past Achievements and Future Outlook for Higher Education in the Kurdistan Region of Iraq.
[Erbil Polytechnic University, Iraq, Erbil, October 13, 2020.](#)

5th International Symposium of advanced Materials and Nanotechnology with the theme "Nanoscale Green Synthesis and Applications".
[Institute of Advanced Technolog, Malaysia, Sumpiuh, December 9-10, 2021.](#)

The 2nd International Conference on Nanotechnology and its Application 2021., Erbil, Iraq.
[Ministry of Industry and Minerals, Iraq, Erbil, 7-8 July 2021.](#)

5th National Nanotechnology Workshop.
[Ishik University, Iraq, Erbil, January 15, 2022.](#)

6th National Nanotechnology Workshop.
[Ishik University, Iraq, Erbil, December 22, 2022](#)

1st International Workshop on Nanotechnology Prospects & Development
Scientific Research Center at Soran University, Iraq, Erbil, March 13, 2023
9 th Nanotech & Nanomaterials Research Conference
United Scientific Group, Italy, Rome, June 12-14, 2023