



Nazar Khalaf Mahan

LECTURE AT UNIVERSITY

About


- A lecture at Physics Department, Collage of Science, Mustansiriyoh University.
- Date of Birth : January /15/1987.
- Married.

Expert Skills


Work on Computer ●●●●●

English Language ●●●●●

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 Baghdad, Iraq.

Education History

MIAMI & UTM UNIVERSITY

- Bachelor of Physic / 2012-2015
An Applied Physics, University of Technology, Baghdad, Iraq.
- Master of Physics / 2016-2018.
An Biophysics, University of Miami, OH, USA.
- PhD Student at UTM, Johar, Malaysia.

LARANA SCHOOL ACADEMY

- B. Sc. In Applied Physics / Morning study, very good with honors degree (May 2009).
- M.Sc. in Experimental Pio-Physics “CONCENTRATION-DEPENDENT CYANIDE ACTION MONITORED USING SPECTRAL PHASOR ANALYSIS OF UV-EXCITED CELLULAR AUTOFLUORESCENCE” (January 2018).
- PhD. in Experimental Physics “ ENHANCING THE ANTIBACTERIAL PROPERTIES OF STAINLESS STEEL AGAINST Escherichia coli AND Staphylococcus aureus USING COBALT-CHROMIUM-COPPER-IRON-NICKEL ALLOY COATING PRODUCED VIA LASER CLADDING TECHNIQUE ”
- Member of the Thermodynamic Lab(2020).

| Work Experience

GOVERNMENT EMPLOYEEY

- Demonstrator: Full time (February, 2012 – January, 2015) Collage of sciences, Mustansirihoh University.
- Lecture: Full time (January, 2018 – until now) Physics Department, Mustansirihoh University, and director of the dean office.
- Director of the dean office.

| List of Publications:

- Maltas, Jeff, Dylan Palo, Chong Kai Wong, Symeon Stefan, James O'Connor, **Nazar Al Aayedi**, Madhu Gaire, Diana Kinn, and Paul Urayama. "A metabolic interpretation for the response of cellular autofluorescence to chemical perturbations assessed using spectral phasor analysis." RSC advances 8, no. 72 (2018): 41526-41535.
- **Mahan, Nazar Khalaf**, Marwa Abdul Muhsien Hassan, Asmaa Hadi Mohammed, and Rana Ismael Khalee. "Neuronal Toxicity of CdS Nanoparticles Prepared by Laser Ablation and their Effect on Liver." In Materials Science Forum, vol. 1039, pp. 537-556. Trans Tech Publications Ltd, 2021.
- **Mahan, Nazar Khalaf**, Ehab Mohammed Ali, and Ahmed N. Abd. "Synthesis of CdS: Cu5% thin films by chemical method based on silicon for gas sensor applications." Materials Today: Proceedings 45 (2021): 5800-5803.
- Hassan, Marwa Abdul Muhsien, and **Nazar Khalaf Mahan**. "Synthesis of ZnO Nanorod/TiO₂ nanotube and its application as a resistive gas sensor." Nano Biomed. Eng 13, no. 1 (2021): 44-51.

- Short, Audrey H., **Nazar Khalaf Mahan**, Madhu Gaire, Max Kreider, Chong Kai Wong, and Paul Urayama. "Distinguishing chemically induced NADPH-and NADH-related metabolic responses using phasor analysis of UV-excited autofluorescence." *RSC advances* 11, no. 31 (2021): 18757-18767.
- **Mahan, Nazar Khalaf**, Khetam Habeeb Rasool, and Ahmed N. Abd. "Biosynthesis of Sulphur Nanoparticles and discovering its effectiveness for some biological applications." In *Journal of Physics: Conference Series*, vol. 2322, no. 1, p. 012067. IOP Publishing, 2022.
- **Mahan, Nazar Khalaf**, Mohammed Faraj Al Marjani, Muhammad Safwan Abd Aziz, Abdul Rahman Johari, Siti Qistina Arora Talib, and Ganesan Krishnan. "SUPERIOR ANTIBACTERIAL PROPERTIES OF COPPER-BEARING HIGH ENTROPY ALLOY COATED STAINLESS STEEL SURFACE FABRICATED USING LASER CLADDING." *Jurnal Teknologi (Sciences & Engineering)* 86, no. 6 (2024): 153-163.
- **Mahan, Nazar Khalaf**, Mohammed Faraj Al-Marjani, Ganesan Krishnan, and Mohammed A. Salman. "Characterization and Antibacterial Properties of CoCrCuFeNi High-Entropy Alloy Nanoparticles Synthesized by *Lactobacillus acidophilus*." *Plasmonics* (2025): 1-9.
- Abed, Ahmed Hamed, **Nazar Khalaf Mahan**, Hussein Subhi Abdulrahman, and Tagreed M. Al-Saadi. "Investigating the Effect of Cobalt Ions on the Optical and Structural Properties of Zinc Ferrite Synthesized by the Sol-Gel Technique." *Journal of Ovonic Research* Vol 22, no. 1 (2026): 119-130.