Curriculum vitae

Natheer A. S. Algadri

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Work Experience

2020-now Assistant Professor- Head of Physics Department, Isra University, Jordan.
2018-2020 Lecturer- Physics Department, Jordan University of Sciences and Technology, Jordan.
2010 - 2014 Lecturer - Physics Department, Umm Al-Qura University, Saudi Arabia.
2008 - 2010 Lecturer- Science Department, Jerash Private University, Jordan.
2005 Teacher Assistance - Physics Department, Jordan University of Sciences and Technology, Jordan.
2002- 2009 Teacher - Ministry of Education, Jordan.

Areas of Expertise

- General physics (1+2+3)
- Medical Physics
- Wave and vibration
- Thermodynamic
- Classical Mechanics (1)
- Classical Mechanics (2)
- Quantum Mechanics (1)
- Radiation physics
- Environmental Physics
- Electromagnetic Physics (1)

Education

❖ PhD

Ph.D in Condensed Matter Physics (Sep 2014- May 2018)
University: University Sains Malaysia, Pulau Penang, Malaysia (QS Rankings#137)
Supervisor: Prof. Dr. Zainuriah Hassan
Thesis Title: Synthesis and characterization of carbon nanotube prepared using microwave oven for hydrogen gas sensing application

❖ Master

Master in Applied Physics (September 2004- June 2008)

University: Jordan University of Science and Technology, Jordan

❖ **BSc**

BSc in Physics **(**September 1997- June 2002)
University: University of Kufa, Iraq.

Attended Conferences

6th International Conference on Solid State Science and Technology (13-16 November 2017, Malaysia, Penang) "Effect grinding of graphite on structural and morphological characteristics of carbon nanotubes grown by microwave oven"

Workshops

- Workshop on Knowledge Transfer and Scientific Writing, 20th April 2016, USM OSA Student Chapter
- Confocal Raman Spectroscopy: Advanced Surface Characterization Technique for Material Science, 2-3 October 2017, Institute of Nano Optoelectronics Research and Technology (INOR) Universiti Sains Malaysia.
- International Symposium on LED and OLED Technology in Conjunction with the International Year of Light 2015 (ISOLED), Center for Research Initiatives (CRI) Natural Sciences, Universiti Sains Malaysia.

Awards

- Award for Excellent Achievement in Journal Publications, School of Physics, Universiti Sains Malaysia.

Technical skills

- Experience in Microsoft office (Word, PowerPoint, Excel……).
- Experience in other software applications such as: Origen, Endnote, Image J, SketchUp, Mendeley, Visio and Magic plot.

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Research Interests

- Solid State Physics, Nano-semiconductors
- Nano-technology.
- Gas sensors.
- Carbon Nanotube and Graphene
- ZnO Nanorods.
- ZnS nanoparticle.
- Photonic Materials and Device

Carrier Objectives

To get a position of a researcher or lecturer in which I can put all my skills and knowledge and professional experience in the field of the modern Solid State physics and nanotechnology, and Development of laboratories for teaching students learn best to they can relate learning to their world, hence, the development of creative abilities and skills of students. I will be happy to continue working on any interesting problems in the fields of solid state physics and nanotechnology and with continue to publish the new scientific papers and patents.

Personal Details

Nationality	:	Jordanien
Date of birth	:	27, July, 1978
Marital Status	:	married
Mother languages	:	Arabic
Other languages	:	English

References

1- Professor Samer Al-Ali
Dean of Faculty of Sciences
Ph.D in nanosciences
Isra University.

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2- Dr. Naser Ahmad
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3- Dr. Mohammad Almhedat
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Publication

Google Scholar: N A Algadri
Web:https://scholar.google.com.my/scholar?q=N+A+Algadri&hl=en&as_sdt=0,5

1. **Algadri NA**, Ibrahim K, Hassan Z, Bououdina M (**2017**) Cost-effective single-Step carbon nanotube synthesis using microwave oven. Materials Research Express, 4 (8):1-11. (Impact factor: **2.3**)

2. **Algadri NA**, Hassan Z, Ibrahim K, Bououdina M (**2017**) Effect of ferrocene catalyst particle size on structural and morphological characteristics of carbon nanotubes grown by microwave oven. Journal of Materials Science 52:12772-12782. (Impact factor: **4.5**)
3. Abubakar D, Ahmed NM, Mahmud S, **Algadri NA**. Properties of NiO nanostructured growth using thermal dry oxidation of nickel metal thin film for hydrogen gas sensing at room temperature. Materials Research Express. **2017** Jul;4(7). (Impact factor: **2.3**)
4. **Algadri, N. A**., Hassan, Z., Ibrahim, K., & AL-Diabat, A. M. (**2018**). A High-Sensitivity Hydrogen Gas Sensor Based on Carbon Nanotubes Fabricated on Glass Substrate. Journal of Electronic Materials, 1-10. (Impact factor: **2.1**)
5. Ahmad M. Al-Diabat, **Natheer A. Algadri**, Naser M. Ahmed, Abdulsalam Abuelsamen & Shaker A. Bidier (**2021**) A high-sensitivity hydrogen gas sensor based on carbon nanotubes fabricated on SiO2 substrate, Nanocomposites, 7:1, 172-183. (Impact factor: **4.6**)
6. Al-Diabat, A. M., **Algadri, N. A**., Ahmed, N. M., Alrajhi, A. B. H., Almessiere, M. A., Ali, A. M. A., ... & Al-Wasli, S. A. (**2022**). Improved Hydrogen Gas Sensing Performance of Carbon Nanotube Synthesized Using Microwave Oven. *Ieee Sensors Journal*, *23*(2), 1033-1041. (Impact factor: **4.3**)
7. **Algadri, N. A**., Al-Diabat, A. M., & Ahmed, N. M. (**2022**). High sensitive UV photodetector based on ZnS/PS thin film prepared via spray pyrolysis method.

Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 44(2), 5303-5313. (Impact factor: **2.9**)

8. **Algadri, N. A**., AL-Diabat, A. M., & Ahmed, N. M. (**2023**). Zinc sulfide based thin film photodetector prepared by spray pyrolysis. Instrumentation Science & Technology, 51(2), 144-161. (Impact factor: **1.6**)
9. Ali, A. M. A., Ahmed, N. M., Kabir, N. A., Al-Diabat, A. M., **Algadri, N. A**., Alsadig, A., ... & Ibnaouf, K. H. (**2023**). Sensitivity of Al-Doped Zinc-Oxide Extended Gate Field Effect Transistors to Low-Dose X-ray Radiation. Materials, 16(5), 1868. (Impact factor: **3.4**)
10. Ahmed Ali, A. M., Ahmed, N. M., Kabir, N. A., **Algadri, N. A**., AL-Diabat, A. M., Wadi, I. A., ... & Ibnaouf, K. H. (**2023**). Towards Extended Gate Field Effect Transistor-Based Radiation Sensors: Impact of Thicknesses and Radiation Doses on Al-Doped Zinc Oxide Sensitivity. Crystals, 13(2), 314. (Impact factor: **2.7**)
11. **Algadri, N. A**., Hassan, Z., Ibrahim, K., & Bououdina, M. (**2019**). Effect Grinding of Graphite on Structural and Morphological Characteristics of Carbon Nanotubes Grown by Microwave Oven. In Solid State Phenomena (Vol. 290, pp. 122-126). Trans Tech Publications. (Impact factor: **0.7**)
12. AL-Diabat, A. M., **Algadri, N. A**., AlZoubi, T., Ahmed, N. M., Makhadmeh, G. N., Abuelsamen, A., & Ali, A. M. A. (2024). Advancement in Embedding Pb Quantum Dots into a Porous-Si Matrix for Superior X-Ray Radiation Detection: An Extended Gate Approach. Radiation Measurements, 107183.
13. Abuelsamen, A., Mahmud, S., Makhadmeh, G. N., AlZoubi, T., Al Diabat, A., **Algadri, N. A**., ... & Oglat, A. A. (2024). Pluronic F-127-coated ZnO nanoparticles as superior photosensitizers for effective bladder cancer photodynamic therapy: In-vitro evaluation. Journal of Drug Delivery Science and Technology, 95, 105550.
14. AL-Diabat, A. M., **Algadri, N. A**., AlZoubi, T., Ahmed, N. M., Makhadmeh, G. N., Abuelsamen, A., ... & Ali, A. M. A. (2024). Synthesis of Al quantum dots on porous silicon as an effective radiation detector using extended gate technique. Results in Engineering, 21, 101973.
15. Al-Diabat, A. M., **Algadri, N. A**., Ahmad, N. M., Alrajhi, A. H., Abuelsamen, A., Ali, A. M. A., & Al-Wasli, S. A. (2023). Optimize the Properties of Carbon Nanotubes Synthesized using a Microwave Oven. WSEAS Transactions on Environment and Development, 19, 705-719.