

CURRICULUM VITAE



Majid Salim Mohammed Al-Ruqeishi

Position/Designation: **Assistant Professor of Physics**

Department: **Mathematical and Physical sciences**

College: **Arts and Sciences**

University of Nizwa, Sultanate of Oman

Personal Information
<p>Name: Majid Salim Mohammed Al-Ruqeishi Marital Status: Married Email Address: majiduon@unizwa.edu.om Contact Numbers: +968-973225449</p>
Academic Qualifications
<ul style="list-style-type: none"> • 2006-2010 PhD. Nanotechnology from University of Malaya, Malaysia • 2005-2006 Master of Applied physics (Solid State Materials) • 1996-2001 Bachelor Degree in Science Education, Physics major from Sultan Qaboos University.
Teaching Activities, Current / Previous Experience
<ul style="list-style-type: none"> • Assistant Professor and had of physics section at university of Nizwa (8/2021- now) • Physics courses (Physics 1 &2, Nanotechnology, Minerals physics, laser physics, physics for Teachers.) • CVD course for postgraduates • Supervision of more than 40 Final Year Project students.
Research Activities (includes but not limited to research interests, conference attendance, conference presentations and publications, refereed journal, articles ,books, ect.)
<p>Research interests:</p> <p>Fabrications and characterization of (2D) graphene and 1D nanostructures using chemical vapour deposition and chemical techniques for innovative applications in green/renewable energy and oil/gas industry. Recently, our team focused on graphene-based water filters and the use of graphene oxide for environmental applications like oil water separation and reduction of low</p>

radioactive material

Peer Reviewed publications:

1. Al Ruqeishi, M. S., Al Salmi, Y., & Mohiuddin, T. (2018). Nanoparticles as Drilling Fluids Rheological Properties Modifiers.
2. Al-Azri, K., Al-Ruqeishi, M. S., Nor, R. M., & Amin, Y. (2011). Parametric study on ZnO nanostructures for solar cell applications. Paper presented at the 2011 3rd International Symposium & Exhibition in Sustainable Energy & Environment (ISESEE).
3. Al-Azri, K., Md Nor, R., Mohd Amin, Y., & Al-Ruqeishi, M. S. (2013). Comparative study of P-doped and undoped ZnO Nanostructures using thermal evaporation and vapor transport method. Paper presented at the Advanced Materials Research.
4. Al-Azri, K., Nor, R., Amin, Y., & Al-Ruqeishi, M. (2009). Fabrication and Characterization of ZnO Nanostructures Using Carbothermal Evaporation Technique on Silicon Substrates Using Gold as Catalyst. Paper presented at the AIP Conference Proceedings.
5. Al-Azri, K., Nor, R. M., Al-Ruqeishi, M. S., & Amin, Y. M. (2010). The influence of substrate location and deposition time on ZnO nanostructures. *MJS*, 29(2), 180-187.
6. Al-Azri, K., Nor, R. M., Amin, Y., & Al-Ruqeishi, M. S. (2010). Effect of source temperature on the morphology and photoluminescence properties of ZnO nanostructures. *Applied Surface Science*, 256(20), 5957-5960.
7. Al-Ruqeish, M. M., Chew, S., & Wong, C. (2008). Relative Thermoluminescence Response of TLD-100, TLD-200 and GE-doped Optical Fiber to 8.05 keV X-ray. *MJS*, 27(2), 91-95.
8. Al-Ruqeishi, M., Nor, R., Amin, Y., & Al-Azri, K. (2012). Synthesis of β -Silicon carbide nanowires by a simple, catalyst-free carbo-thermal evaporation technique. *Jurnal Teknologi (Sciences and Engineering)*, 59(SUPPL.), 75-78.
9. Al-Ruqeishi, M., Nor, R., Amin, Y., & Al-Azri, K. (2009). Amorphous SiO_x Nanowires and Aligned Nano-Cakes: The Growth Mechanism and Photoluminescence. Paper presented at the AIP Conference Proceedings.
10. Al-Ruqeishi, M. S., Al-Azri, K., Nor, R. M., & Amin, Y. (2011). Synthesis and photoluminescence of SiO_x nanowires and aligned nanocakes for solar cell applications. Paper presented at the 2011 3rd International Symposium & Exhibition in Sustainable Energy & Environment (ISESEE).

11. Al-Ruqeishi, M. S., Md Nor, R., Mohd Amin, Y., & Al-Azri, K. (2013). Synthesis of β -Silicon Carbide Nanowires by a Simple, Catalyst-Free Carbo-Thermal Evaporation Technique. Paper presented at the Advanced Materials Research.
12. Al-Ruqeishi, M. S., & Mohiuddin, T. (2015). Growth of Single-sided ZnO nanocombs/ML graphene Heterostructures. *Arabian Journal of Chemistry*.
13. Al-Ruqeishi, M. S., Mohiuddin, T., Al-Habsi, B., Al-Ruqeishi, F., Al-Fahdi, A., & Al-Khusaibi, A. (2019). Piezoelectric nanogenerator based on ZnO nanorods. *Arabian Journal of Chemistry*, 12(8), 5173-5179.
14. Al-Ruqeishi, M. S., Mohiuddin, T., & Al-Saadi, L. K. (2019). Green synthesis of iron oxide nanorods from deciduous Omani mango tree leaves for heavy oil viscosity treatment. *Arabian Journal of Chemistry*, 12(8), 4084-4090.
15. Al-Ruqeishi, M. S., Nor, R. M., Amin, Y. M., & Al-Azri, K. (2009). Synthesis of amorphous SiO_x nanowires and nanofibers by thermal evaporation with gold as catalyst. *MJS*, 28(3), 309-314.
16. Al-Ruqeishi, M. S., Nor, R. M., Amin, Y. M., & Al-Azri, K. (2010). Carbon assisted growth and photoluminescence of silicon nanowires fabricated without a catalyst. *Silicon*, 2(1), 19-24.
17. Al-Ruqeishi, M. S., Nor, R. M., Amin, Y. M., & Al-Azri, K. (2010). Direct synthesis of β -silicon carbide nanowires from graphite only without a catalyst. *Journal of Alloys and Compounds*, 497(1-2), 272-277.
18. Al-Ruqeishi, M. S., Nor, R. M., Amin, Y. M., & Al-Azri, K. (2011). Direct Growth and Photoluminescence of SiO_x Nanowires and Aligned Nanocakes by Simple Carbothermal Evaporation. *Silicon*, 3(3), 145-151.
19. Al-Ruqeishi, M. S., Nor, R. M., Amin, Y. M., & Al-Azri, K. (2017). Direct growth and photoluminescence of silicon nanowires without catalyst. *Arabian Journal of Chemistry*, 10, S2025-S2031.
20. Al-Ruqeishi SM*, A.-S. H., Mohiuddin T, Karthikeyan S, & R, A.-B. (2019). Facile Synthesis of 1D and 2D Zinc Sulfide Nanostructures on Multi-Layered Graphene. *Journal of Nanomaterials & Molecular Nanotechnology*, 8(2).
21. Khalaf, K., Al-Rawas, A., Widatallah, H., Al-Rashdi, K., Sellai, A., Gismelseed, A., Al-Ruqeishi, M., . . . Al-Riyami, K. (2016). Influence of Zn²⁺ ions on the structural and electrical properties of Mg_{1-x}Zn_xFeCrO₄ spinels. *Journal of Alloys and Compounds*, 657, 733-747.

22. Khalaf, K. A., Al-Rawas, A., Gismelseed, A., Al-Ruqeishi, M., Al-Ani, S., Al-Jubouri, A., . . . Al-Jadedi, B. (2019). Effects of Zn Substitution on Structure Factors, Debye-Waller Factors and Related Structural Properties of the Mg_{1-x}Zn_xFeNiO₄ Spinels. *Advances in Materials*, 8(2), 70-93.
23. Majid, S. (2010). Al-Ruqeishi, Roslan Md Nor, Yusoff Mohd Amin, Khalifa Al-Azri. *J. Alloy. Compd*, 497, 272.
24. Majid, S., & Tariq, M. (2016). Fabrication of β -Silicon Carbide Nanowires from Carbon Powder and Silicon Wafer. *Журнал нано-та електронної фізики*(8,№ 2), 02001-02001-02001-02004.
25. Mohiuddin, T., & Al-Ruqeishi, M. S. (2016). Chemical vapor deposition growth of composite silicon-silica nanowires from silicon monoxide vapor. *Silicon*, 8(2), 225-231.
26. Nasser, J., Jesil, A., Mohiuddin, T., Al Ruqeshi, M., Devi, G., & Mohataram, S. (2013). Experimental investigation of drilling fluid performance as nanoparticles. *World Journal of Nano Science and Engineering*, 2013.
27. Majid S. Al-Ruqeishi, Tariq Mohiuddin, Moza Al-Moqbali, Hamyar Al-Shukaili, Said Al-Mamari, Hashim AlRashdi, Rahma Al-Busaidi, Vishnu Sreepal, and Rahul R. Nair,(2020), Graphene Oxide Synthesis: Optimizing the Hummers and Marcano Methods, *Nanosci. Nanotechnol. Lett.* 12, 88–95.
28. Ammar Nayfeh, Ayman Rezk, Noha Elhalawany, Majid Al Ruqeishi, Adem Kocyigit, Ersin Bahceci, Munir Hasan Nayfeh (2021). Tunable plasmon-polarizmon resonance and hotspots in metal–silicon core–shell nanostructures, *AIP Advances*, 11(12), 125-129.

Selected Conferences Proceedings:

1. Majid.S.Al-Ruqeishi, Roslan Md Nor, Yusoff Mohd Amin, Khalifa Al-Azri (2008). ATMOSPHERIC PRESSURE GROWTH AND CHARACTERIZATION OF SILICON NANOWIRES BY DIRECT HEATING WITHOUT CATALYST, Kuala Lumpur, Malaysia.
2. Majid.S.Al-Ruqeishi, Roslan Md Nor, Yusoff Mohd Amin, Khalifa Al-Azri (2008), Amorphous SiO_x Nanowires And Aligned Nano-Cakes : The Growth Mechanism And Photoluminescence, NANOSciTech 2008, Universiti Teknologi MARA (UiTM) and Nagoya Institute of Technology (NIT), Japan.
3. Majid.S.Al-Ruqeishi, Roslan Md Nor, Yusoff Mohd Amin, Khalifa Al-Azri (2009). SYNTHESIS OF SiO_x NANOWIRES AND NANOFIBERS BY DIRECT HEATING OF n-type SILICON (100) SUBSTRATE WITH GOLD AS CATALYST, Third International Meeting on Frontiers of Physics (IMFP 2009), Labuan, Malaysia.

4. Al-Ruqeishi, M. S., et al. (2013). Synthesis of β -Silicon Carbide Nanowires by a Simple, Catalyst-Free Carbo-Thermal Evaporation Technique. Advanced Materials Research, Trans Tech Publications.

Faculty Administrative Experience

Year 2021-2022:

Dep. Professional development committee (chair)

Dep. Curriculum committee (Member)

Dep. Recruitment Committee (Member)

Community Services

- The co-finder of National Strategy for Education and Teaching Nanotechnology for Educators and Students in the Sultanate of Oman.
- Participation in the activities related to the peaceful use of Nuclear Energy with joint programme of Ministry of Foreign Affairs representative by Omani office of peaceful nuclear energy and the Omani, national commission for education, culture and science (UNISCO).
- Presents several workshops and lectures to Spread Awareness about nanoscience and nanotechnology.
- (Nanotechnology) for educational system in Oman, initiative includes workshops, lectures and strategic plans.

Consultancy Activities

Membership in Professional Bodies

Awards and recognitions

- 2007-2009 Full PhD Fellowship from University of Malaya.
- 2010 PhD Minimum Completion Period Certificate with a cash.
- 2016 Best Researcher, Sultan Qaboos University Day
- 2016 Best Oral Presented Research Award in the 4nd international conference in nanoscience and nanotechnology, Kuala Lumpur, Malaysia
- 2017-2018 The Arab-American Frontiers Fellowship Award from National Academy of Sciences, university of Illinois, US.
- 2019 Best Oral Presentation Award at the 10th International Conference on Nanoscience and Nanotechnology for the hydrophobic cement Research, Shah Alam, Malaysia.
- A member of the organizing committee chosen by U.S. National Academies of Sciences (NAS) in the 2020 Arab-American Frontiers of Science, Engineering and Medicine symposium in partnership with Hamad Bin Khalifa University (HBKU) in Qatar, Fall 2021.