

ROLA MOHAMMED A DERBESHI

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Summary

I have highly motivated aspire to become a Saudi expert physicist and Researcher in Physics, and to make contributions that enrich this vast field of knowledge. My previous research experience with my experience in different functional areas. that I gained will enable me to serve my country regarding two vital areas. Firstly, affording this branch of science its due rights through giving it the consideration that it deserves. Secondly, mentoring and advising the young researchers in this field, while providing them with what they need.

Education History

- Bachelor degree in Physics, University of Jizan, Saudi Arabia, 2010.
- Master degree in Physics, Morgan State University, Baltimore, MD, USA (advisor: Professor YuCheng Lan), 2017

Skills/Core Competencies

- Strong English communications skills as author, lecturer, debater
- Excellent relationship builder with students, faculty and administration
- Excellent interpersonal, writing, verbal communication and research skills
- Proficiency in Microsoft Office
- Proficiency in MATLAB and LaTeX
- Strategic planning, organizational and leadership skills
- Physics and Mathematics expertise

Language

Arabic and English

Work/Professional Experience

- Teaching Assistant at Jazan University, Mathematics department - Taught a total of 1 course mainly focused on general physics. 2013
- Collaborating lecturer, at the Jazan University, Nursing department, Taught a total of 1 course focused on Physics for Health Specialties. Sep 2018 – Apr 2020
- Lecturer, at the Jazan University, Physics Department - Taught a total of 7 courses, mainly focused on general physics, Electronics 1, Physical Optics, Geometrical Optics, Electricity & Magnetism, properties of matter and heat, and Physics for Health Specialties. May 2020 – Present
- Coordinator of Environment Friends Club - Solely set the executive plan for the whole year. Promoting awareness of the concept of sustainable development. Publishing brochures, flyers, posters and awareness boards arranged to enhancing and encouraging awareness of the need to rationalize energy and water consumption, and the use of safe raw materials and environmentally friendly products 2020 – Present.
- Coordinator of Entrepreneurship and Innovation Unit - Solely set the executive plan for the whole year. Created the content and publicly presented 5 workshops on Creative Thinking and Innovation, Brainstorming Strategy and Problem-solving using Creative Thinking. 2020 – Present.
- Member of Schedule Committee - Coordinate and schedule timetables, 2020 – Present.
- Member of Annual Report Committee - Designed the college annual report with a professional manner. 2020 – Present.
- Member of Quality Assurance Unit - Preparing quality and improvement reports addressing areas of strengths and improvement to implementing an effective system of quality assurance in the department. 2020 – Present.
- Guest researcher at Materials for Energy and Sustainable Development Group of National Institute of Standards and Technology (NIST), advisor (Dr. Winnie Wong-Ng) 7/Jan/2017 – 31/Dec/2017.
- I worked at the intensive American Language Center at University of Kentucky (UK), help thier new Saudi student get established prior to starting their academic lives, allowing me to further develop my leadership and communication skills, 2014.
- Volunteer in various university activities such as organizing annual book fairs, Jazan University 2008 – 2014.

Research

Graduation Project : 07/2015 - 05/2017

Nickel films for flexible and transparent electrodes in potential flexible application.

Research experience : 01/2017 - 012/2017

I have experience research in thermoelectric oxides as well as photocatalytic materials that were important for energy conversion applications. And a peer-reviewed paper will be derived from this research

Research

Training

- Training at National Institute of standards and Technology in Gaithersburg, MD, USA for one year.

Courses

- September 2012: Attended intensive English Course ELS for seven months.
- June 2014: Attended intensive English Course at College at arts and Sciences at University of Kentucky for one year.
- December 2015: Entrepreneurship for 21st Century.
- December 2015: Human Recourse and Career Developed.
- October 2015: leadership training course organized by hand-by-hand organization.
- January 2019: Youth leadership forum by Jazan University.

Publications

PUBLICATIONS:

1. Yucheng Lan , Jianye Li, Winnie Wong-Ng, Rola M. Derbeshi, and Abdellah Lisfi, "Free-Standing Self-assemblies of Gallium Nitride nanoparticles: A Review," *Micromachines*, 7(9),121 (August 2016).
2. Yucheng Lan, Rola Derbeshi and Abdellah Lisfi, (book chapter) in "Titanium Dioxide Nanoparticles Characterization, properties and Syntheses (Editors Yuncheng Lan , Rola Derbeshi , and Abdulla lisfi) (January 2017).
3. Yucheng Lan, Bing Lv, Sz-Chian Liou, Jia-An Yan, Jiming Bao, Jesse Dampare, Mobolaji Zon-dode, Rola M. Derbeshi, Abdellah Lisfi, Manfred R. Wuttig, Ching-Wu Chu, and Zhifeng Ren " CBED Investigations of Boron Monoarsenide Crystals "(August 2018)
4. J. Anike, W. Wong-Ng, N. King, R. Derbeshi, N. Arenska-Katz, and Y.C. Lan, X-ray and Band a. Gap Characterization of Ba(Zn,Co)SiO₄, to be submitted to *Powd Diffr.* (June 2019)
5. 1W. Wong-Ng, 2*G. Liu, 1, 3Y.Q. Yang, 1R. Derbeshi, 1D. Windover, and 4J. A. Kaduk, Crystal chemistry, X-ray diffraction reference patterns, and bandgap studies for (Ba x Sr 1- x) ₂ CoWO ₆ (x = 0.1, 0.2, 0.3, 0.5, 0.7, and 0.9) Corresponding author .
6. Structural and optical properties of Ba(Co 1-x Zn x)SiO ₄ (x = 0.2, 0.4, 0.6, 0.8) by J. Anike, R. Derbushi, W. Wong-Ng, W. Liu, N. King, S. Wang J. A. Kaduk, and Y. Lan, to be submitted to *Powder Diffraction*, (April 2021)

AWARDS :

- The best poster award at the 4th International Conference on Energy and Materials Research held during December 06-07, 2017, in Dallas Texas, USA.
- Award in recognition of my academic achievements of receiving a 3.77 GPA in the Physics program, December 16, 2017.
- Julius Taylor Academic Achievement Award at Morgan State University, USA, 2018.

POSTER PRESENTATION :

1. Tobiloba Komolafe, Anwar Alseadi, Rola Derbeshi, Abdellah Lis, and Yucheng Lan, Photovoltaic Performances of Titanium Oxide Dye-Sensitized Solar Cells in the 23rd Annual Undergraduate and Graduate Research Symposium. (2016) Morgan State University, Baltimore, MD.
2. Yucheng Lan, Bing Lv, Rola M. Derbeshi, Anwar Alseadi, Haiqing Zhou, Hui Wang, Abdellah Lisfi, and Manfred Wuttig, "SPACE GROUP OF BORON ARSENIDE DETERMINED FROM TRANSMISSION ELECTRON MICROSCOPY " The 2016 ICDD Spring meetings, 14 - 18 march, Newtown Square, PA.
3. Yucheng Lan, Bing Lv, Rola M. Derbeshi, Anwar Alseadi, "NANOSTRUCTURES AND PHONON SCATTERING OF THERMOELECTRIC NANOCOMPOSITES WITH ENHANCED FIGURE-OF-MERIT" in Electron Microscopy Workshop and NanoDay 2016 conference, 17 - 18 May, 2016. Jeong H. Kim Building, Campus of University of Maryland, College Park, MD.
4. Rola Derbeshi, Sabin Pokharel, Odia Akioya, Norah Alqhtany, Anwar Alseadi, Abdellah Lisi, and Yucheng Lan, Nickel Films for Highly Stretchable and Transparent Electrodes in the 24th Annual Undergraduate and Graduate Research Symposium. April 13, 2017. Morgan State University, Baltimore, MD.
5. Rola Derbeshi, Sabin Pokharel, Odia Akioya, Norah Alqhtany, Anwar Alseadi, Abdellah Lisi, and Yucheng Lan, Nickel Films for Highly Stretchable and Transparent Electrodes in the 24th Annual Undergraduate and Graduate Research Symposium (Celebrating 150 Years of Research, Scholarship, Creativity and Innovation at Morgan State University). Morgan State University, Baltimore, MD, October 13, 2017.
6. Rola Derbeshi, Sabin Pokharel, Odia Akioya, Norah Alqhtany, Anwar Alseadi, Abdellah Lisi, and Yucheng Lan, Flexible Porous Nickel Electrodes in Potential Flexible Applications in 14th International Conference on Energy and Materials Research. December 06 -07, 2017. Dallas, TX.
7. Yuncheng Lan, Bing Lv, Sz-Chian Liou, Jia-An Yan, Jiming Bao, Jesse Dampare, Mobolaji Zondode, Rola M. Derbeshi, abdellah Lisifi, Manfred R. Wutting, Ching-Wu Chu, and Zhifeng Ren, CBED Investigations of Boron Monoarsenide Crystals, Conference of Microscopy and Microanalysis. August 05 – 09, 2018. Baltimore, MD.