

Curriculum Vitae (CV)

1. Personal Information

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| Name | Rania Saleh Mones Alqurashi |
| Nationality | Saudi |
| Language | Arabic & English |
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2. Education

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| 2018 | Doctor of Philosophy in Physics The University of Sheffield, Sheffield, United Kingdom |
| 2012 | Master of Science with Distinction in Nanoscale Science and Technology The University of Sheffield, Sheffield, United Kingdom |
| 2005 | Bachelor with Second Honour in Physics Umm Al-Qura University, Mecca, Saudi Arabia |

3. Research Interests

Solar cell technologies (organic solar cells, perovskite solar cell, dye-synthesised solar cell, and quantum dot solar cell), Energy storage technologies, Nanotechnology, Nanomaterials in electronics, Characteristic spectroscopies, and Nanotechnology imaging.

4. Work Experience (Academic & Administrative)

- Work at Al Baha University, Albaha, Saudi Arabia (since 2007 to current) as
 - Teaching Assistant. Physics Department, Faculty of Science | 2007-2016
 - Lecturer. Physics Department, Faculty of Science | 2016-2018
 - Assistant Professor. Physics Department, Faculty of Science | 2018 – current
 - Vice Dean of Faculty of Science at Female Section | 2008-2009
 - Vice Head of Physics Department at Female Section | 2018-2020
 - Vice Head of Department's Schedules and Examinations Committee | 2019-2021
 - Vice Head of Department's Graduation Studies Committee | 2019-2021
 - Representor of Faculty of Science for Quality Control Management | 2018
 - Representor of Faculty of Science for Community Partnership | 2018
 - Internal Judge at the Deanship of Scientific Research | 2018

- Teaching various general and specialized modules at the department;

General Physics 1, General Physics 2, Specialized English Language for Physicists, Modern Physics, Optical Physics, Spectroscopy, Solid state Physics 1, Electronics 1, Thin Films & Solar Cells, and Undergraduate Project.

- Lab Demonstrator. The University of Sheffield, Sheffield, United Kingdom | 2015
- Science Teacher. Al-Fadal Private School, Mecca, Saudi Arabia | 2005-2007
- Science Teacher. Al-Ma'arfah Private School, Mecca, Saudi Arabia | 2004-2005

5. Work Experience (Voluntary)

- English language editor. Openastronomy.com | 2017
- General Secretary. The Scientific Society for Saudi Students in the UK (SSSSUK), London, United Kingdom | 2017
- Vice Head of Natural Science Committee. The Scientific Society for Saudi Students in the UK (SSSSUK), London, United Kingdom | 2014-2016

6. Committee Membership at Al Baha University

- Member of The Scientific Council Board of the Institute for Studies and Consulting Services | 2019-current
- Member of Disciplinary Committee and Students' Issues in The Faculty of Science at Female Section | 2018-2019

7. Professional Membership

- Member of the Institute of Physics (IOP)
- Member of NanoGe
- Network Member of SUPERGEN SuperSolar

8. Awards

- Scientific Excellence Award from the Cultural Attaché in the United Kingdom and Ireland | 2015
- Scientific Excellence Award from the Cultural Attaché in the United Kingdom and Ireland | 2016
- Certificate of Thankfulness and Appreciation for Distinguished Scientific Research by the Saudi Ambassador to UK, The Prince Mohammad Bin Nawaf Bin Abdul-Aziz | 2018

9. Published Research

- R. S. Alqurashi (2018) '*Interface Electronic Structure of Inverted Polymer Solar Cells*' Ph.D Theses, University of Sheffield, UK.
- Abdullah Alsulami, Jonathan Griffin, Rania Alqurashi, Hunan Yi, Ahmed Iraqi, David Lidzey and Alastair Buckley (2016). '*Thermally Stable Solution Processed Vanadium Oxide as a Hole Extraction Layer in Organic Solar Cells*'. *Materials*, 9, 235.
- Rania Alqurashi, Jonathan Griffin, Abdullah Alsulami, and Alastair Buckley (2016). '*Open-Circuit Voltage in Inverted Polycarbazole: Fullerene Bulk Heterojunction Solar Cells*'. *IEEE Journal of Photovoltaics*, 2156-3381.
- R. S. Alqurashi (2012) '*Manufacturing and Testing a New Solar Cells*' MSc Dissertation, University of Sheffield, UK.

10. Funded Research Projects

- ❖ Co-investigator in the Study of Native Albaha Date Palms for Water Decontamination and Solar Energy Applications, Al Baha University | 2020
- ❖ Principle investigator in the Study of Alien Nicotiana Glauca Grown Invasively in Albaha Province as Native and Sustainable Resource for Solar Energy Applications, Al Baha University | 2021
- ❖ Co-investigator in the Fabrication of Highly Efficient Nano Carbon Precursor Obtained From Macroalgae Existed in Red Sea and Neom's Coasts For Supercapacitor and Solar Cell Applications, Tabuk University | 2021

11. Professional Training Programmes

- (Online) The Energy Innovation and Emerging Technologies Program (2020). The Stanford Center for Professional Development, Stanford University, Stanford, USA. Courses were;
 - ✓ *Behaviourally Informed Design for Energy Conversation*
 - ✓ *Economics of the Clean Energy Transition*
 - ✓ *Energy Storage*
 - ✓ *Emerging Technologies in Solar Cells*
- (Online) Diploma on 'Event Management and Marketing' (2016), *Accredited by the Chartered Institute of Marketing (CIM)*. Ashdown Academy Ltd, London, UK.
- The Sheffield Teaching Program (2013). The University of Sheffield, Sheffield, UK. Courses were;
 - ✓ *Large Group Teaching (Lecturing)*
 - ✓ *Small Group Teaching (Seminar Facilitation)*
 - ✓ *Small Group Teaching (Laboratory Demonstration)*
- Polymer Centre Training Course (2013). The University of Sheffield, Sheffield, UK. Courses were
 - ✓ *Basic Polymer Technology*

✓ *Basic Polymer Science***12. Scientific Conference Participation**

- Online Poster titled '*Investigation of thermal Annealing Effect on the Optical Properties of GaAsSb-Capped InAs/GaAs Quantum Dots for Intermediate Band Solar Cells*'. The International Conference on Hybrid and Organic Photovoltaic | 2020
- Invited Talk titled '*Polymer Solar Cells (PSC): How Transparent Electrodes Have Contributed to the Targeted Efficiency?*'. EMN Meeting on Transparent Electrodes-Energy Materials and Nanotechnology, Orlando, Florida, USA | 2016
- Poster titled '*Tunability of ITO Work Function by Thermal Annealing for Inverted Organic Photovoltaics*'. The 9th Saudi Students Conference, Birmingham, UK | 2016
- Talk titled '*Tuning of ITO Work Function for Cathode Modification in Inverted Polymer Solar Cells*'. UK Semiconductors 2015 Conference, Sheffield, UK | 2015
- Poster titled '*Tuning of ITO Work Function for Cathode Modification in Inverted Polymer Solar Cells*'. The International Conference on Hybrid and Organic Photovoltaic 2015, Roma, Italy | 2015
- Poster titled '*High Performance Bulk-Heterojunction Organic Solar Cells Using Molybdenum (VI) Oxide Bis (2,4-pentanedionate) Precursor For Anode Interlayers*'. The RSC Chemistry Centre, London, UK | 2014
- Attending One-day Conference on 'Advance in Photovoltaic'. The Institute of Physics (IOP), London, UK | 2014

13. General Workshops & Training Courses

- Online Training Course on '*Training of Trainers and Preparing Training Bags*', Accredited by Technical and Vocational Training Corporation. [25 hours – 7 Days]. Jasarah, Saudi Arabia | 2020
- Workshop on '*Infographic Design for e-Learning*'. The Committee of e-Learning & Distance Education Deans in Saudi Universities, Saudi Arabia | 2019
- Workshop on '*Description of the Programs and Courses according to the Forms of the National Centre for Evaluation and Accreditation*', Al-Baha University, Saudi Arabia | 2018
- Workshop on '*Self-assessment and Development of the Academic Program*', Al-Baha University, Saudi Arabia | 2018
- Workshop on '*Formulation and Measurement of Education Outputs for Courses and Programs*', Al-Baha University, Saudi Arabia | 2018

14. Delivered Seminars & Organized Events

- Seminar titled '*Organic Solar Cells*'. Imam Mohammed Bin Saud University, Riyadh, Saudi Arabia | 2019
- Seminar titled '*The Role of Women in Science Development*'. Faculty of Science, Al Baha University | 2018
- Talk titled '*Scholarship Journey to the United Kingdom: Personal Experience*'. Deanship of Scientific Research and Graduate Studies, Al Baha University | 2018
- Organizing *the 1st Symposium for Undergraduate Students on Electronics: Physics, Materials, and Applications*. Faculty of Science. Al Baha University | 2019
- Organizing '*The 2nd Exhibition for Undergraduate Students on Physics*'. Faculty of Science. Al Baha University | 2018
- Organizing '*Read and Rise Program*'. Saudi Student Club in Sheffield, UK | 2017
- Organizing '*The Scientific Program of the 8th Saudi Students Conference*'. Queen Elizabeth II Centre, London, UK | 2015
- Organizing '*The Scientific Program of Advanced Nanotechnology Symposium*'. The University of Leeds, Leeds, UK | 2015
- Organizing '*The Inaugural Ceremony of SSSSUK*'. London School of Economics and Political Science, London, UK | 2014
- Organizing '*The 1st Exhibition for Undergraduate Students on Physics*'. Faculty of Science. Al Baha University | 2009

15. Skills

- ✓ Excellent experience in LaTeX, OriginLab Pro, GraphPad Prism 6, and Chemdraw
 - ✓ Expert in Microsoft Office software and reference managing softwares including (EndNote, Mendeley and JabRef)
 - ✓ Familiar with CasaXPS software & AFM image processing software (NanoScope)
 - ✓ Well trained on XPS & UPS analysis, AFM, UV-vis Spectrometer, Ellipsometry and Dektak
 - ✓ Expert in Laser Deposition (LD), Spin coating and Spray Coating, thermal evaporation techniques
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