



FACULTY FULL NAME: Dr. Amira Ramadan Alghamdi

POSITION: Assistant Professor

Personal Data

Nationality | Saudi

Date of Birth | -

Department | Physics

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Office Phone No. | (+966) 0133337300

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	fluency
English	Excellent	Excellent	fluency
Japanese	-	-	Elementary proficiency

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
30-3-2023	Doctor of Philosophy (Nanotechnology)	Australia	College of Science and Engineering, Flinders University, Adelaide, South Australia, Australia
December 2017	Master (Nanotechnology)	Australia	College of Science and Engineering, Flinders University, Adelaide, South Australia, Australia
	Bachelor (Science & Education (Physics))	Saudi Arabia	King Khaled University (Saudi Arabia)

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Evaluation of Chemical and Electronic Properties of Photovoltaic Materials at Interfaces in Solar Cell Devices.
Master	Measuring the Dye Adsorption Kinetics as a Function of Different Immersion Time.
Fellowship	Fellowship to National Institute of Materials Science (NIMS), Japan (Studying Perovskite solar cell).



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Assistant Professor	Imam Abdulrahman bin Faisal University, Dammam	Saudi Arabia	2023
Lecturer	Imam Abdulrahman bin Faisal University, Dammam	Saudi Arabia	-
Teaching Assistant	Imam Abdulrahman bin Faisal University, Dammam	Saudi Arabia	2014

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
The Head of the Unit of Developing Study Plans and Curriculum	GF16	01-2024

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Ahmad M Saeedi, Hana M Almarri, Nadiyah M Alabdullah, Mohammed A. Alameri, Hissah Saedoon Albaqawi, Amira R. Algamdi, Fayez A. Alfayez, Saleh M. Alluqmani	Morphological, Structural, and Optical Features of Thermally Annealed Slag Powders Generated from the Iron and Steel Industry: A Source of Disordered Iron Oxide Composites	Crystals (2023)
2	Amira R. Alghamdi, Bradley P. Kirk, Mats R. Andersson, and Gunther G. Andersson	Chemical and Electronic Properties of PTB7-Th and ITIC on ZnO Interfaces in Organic Solar Cell	ACS Sustainable Chemistry & Engineering (2023)
3	Amira R. M. Alghamdi, Masatoshi Yanagida Yasuhiro Shirai, Gunther G. Andersson, and Kenjiro Miyano	Surface Passivation of Sputtered NiOx Using a SAM Interface Layer to Enhance the Performance of Perovskite Solar Cells	ACS omega (2022)
4	Amira R. Alghamdi, Jonas M. Bjuggren, Xun Pan, Mats R. Andersson, and Gunther G. Andersson	Dipole Formation at Active Materials/P(NDI3N-T-Br) Interface in Organic-Based Photovoltaic	Macromolecular Materials and Engineering (2022)
5	Amira R. Alghamdi Bradley P. Kirk, Guler Kocak , Mats R. Andersson and Gunther G. Andersson	Modification of the Surface Composition of PTB7-Th: ITIC Blend Using an Additive	Molecules (2022)



6	Pandian, M. G. M.; Khadka, D. B.; Shirai, Y.; Yanagida, M.; Kitamine, S.; Alghamdi, A. R.; Subashchandran, S.; Miyano, K.	Effect of Surface Treatment of Sputtered Nickel Oxide in Inverted Perovskite Solar Cells	Thin Solid Films (2022)
7	Sumiya, M.; Takahara, Y.; Alghamdi, A.; Nakayama, Y.; Uesugi, F.; Harada, Y.; Imanaka, Y.	Growth of Al _x Ga _{1-x} N/In _y Ga _{1-y} N Hetero Structure on AlN/Sapphire Templates Exhibiting Shubnikov-de Haas Oscillation	Journal of Crystal Growth (2021)
8	Alharbi, T. M. D.; Alghamdi, A. R. M.; Vimalanathan, K.; Raston, C. L.	Continuous Flow Photolytic Reduction of Graphene Oxide	Chemical Communications (2019)

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
1	NA	NA	NA	NA

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	NA	NA	NA

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	NA	NA	NA

Current Researches

#	Research Title	Name of Investigator(s)
1	Modification of nanomaterials for photocatalysts applications	Taher ghrib, Amal Alotaibi, Amira Alghamdi, Nurah Alkudaisi, Hana Almarri and Noaf Alshwaraa

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
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1	Australian Institute of Physics (AIP) Congress, Adelaide	Australia (2022)	Attendance
2	the 33rd Australian Colloid and Surface Science Student Conference (33ACSSSC)	Brisbane, Australia (January 2022)	Poster talk
3	17th Conference of the International Association of Colloid and Interface Scientists (IACIS)	Brisbane, Australia (June 2022)	Poster talk
4	Nanoscale Science & Technology's 11th Annual Conference	Australia (June 2022)	Poster talk
5	Australasian Community for Advanced Organic Semiconductors (AUCAOS) Symposium	New South Wales, Australia (March 2022)	Talk
6	2021 Australian Institute of Physics Summer Meeting	Queensland University of Technology (QUT), Australia (6–9 December 2021)	Poster talk
7	MANA International Symposiums Conference	NIMS, Japan (2022)	Attendance
8	Third College of Science and Engineering Higher Degree Research conference	Australia (26–27 November 2019).	Poster talk
9	Advanced Materials and Nanotechnology (AMN9)	Wellington, New Zealand (10–14 February 2019)	Poster talk
10	Australasian Community for Advanced Organic Semiconductors (AUCAOS)	Hahndorf, Adelaide (2018)	Attendance

Membership of Scientific and Professional Societies and Organizations

- 1- Member of Saudi Youth for Sustainability (SYS) at KAUST, 2022- present.
- 2- Member of HDR club for Supporting international students at Flinders University, 2021 -2023.

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Nanotechnology	PHYS 502	Lecture
2	Physics 1	PHYS 107	Lecture



3	Electronics 2	PHYS 308N	Lab
4	Solid-State Physics	-	Lecture

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	NA	NA	NA

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
1	Nanotechnology- PHYS 502	Yes	-	yes	-	20-08- 2023	29-12- 2023

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
1	NA	-	-	-

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	NA	-	-	-

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	NA	-	-	-

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	NA	-	-	-



Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	18-01-2014	Current	The Head of the Unit of Developing Study Plans and Curriculum	IAU

Committee Membership

#	From	To	Position	Organization
1	20-8-2023	Current	Head in courses' development of physics program	IAU

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
1	01-2020	04-2021	International Cooperative Graduate Program (ICGP) fellowship to National Institute of Materials Science (NIMS), Japan	Full time
2	05-06-2014	26-06-2014	Assistant Trainer (Mawhiba) at King Abdulaziz & his Companions Foundation for Giftedness and Creativity, Saudi Arabia.	Full time
3	2011	2013	Qualified Trainer (Mawhiba) at King Abdulaziz & his Companions Foundation for Giftedness and Creativity, Saudi Arabia.	Full time



Volunteer Work

#	From	To	Type of Volunteer	Organization
	NA	-	-	-

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

	Technical skills
	X-ray Photoelectron Spectroscopy (XPS), Metastable Impact Electron (MIES), Ultra-violet Photoelectron Spectroscopy (UPS), Inverse Photoelectron Spectroscopy (IPES), Neutral Impact Collision Ion Scattering Spectroscopy (NICISS), Scanning Electron Microscopy (SEM), Metal Organic Chemical Vapour Deposition (MOCVD), X-Ray Diffraction (XRD), Angle-resolved photoemission spectroscopy (ARPES).
	Computer skills
	Singular Value Decomposition (SVD) algorithm, CASA for XPS analysis and scientific programs such as Origin, Chem Draw and Igor.

Last Update

20/01/2024