Rahmah Ali Algarni

Personal Data

Nationality | Saudi

Date of Birth | 2/2/1984

Department | Physics

Official UoD Email | raalgarni@iau.edu.sa

Office Phone No. | 37069

Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	✓
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2019-2022	P.H Degree		Dammam
2013-2014	Master's Degree	King Faisal University	Hufof
2004-2005	Bachelor's Degree	Girls College of Science (Imam Abdulrahman bin	Dammam
		Faisal University)- Physics Department	

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

PhD	Impact of nano-Dy2 O3 particles on the structure, superconducting and flux pinning properties of $YBa_2Cu_3O_{7-\delta}$ polycrystalline.
Master	Synthesis and Controlling of Nano-Structures for Nanolayered Materials and Study of their Effects on Polyvinyl Alcohol

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date	
Lecturer	College of Science-Physics	Imam Abdulrahman bin Faisal	Dammam	12/9/1435
	Department	University		
Demonstrator	College of Science-Physics	Imam Abdulrahman bin Faisal	Dammam	20/8/1430
	Department	University		

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date

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	Algarni, R., E. Hannachi, Y. Slimani, M. A. Almessiere, and F. Ben Azzouz.	"Flux pinning mechanisms of $(YBa_2Cu_3O_{y-d})_{1-x}/(Dy_2O_3)_x$ superconductors (x= 0.1 and 0.5 wt%)."	Ceramics International 47, no. 5 (2021) 6675-6682
2	Algarni, R., M. A. Almessiere, Y. Slimani, E. Hannachi, and F. Ben Azzouz.	"Enhanced critical current density and flux pinning traits with Dy_2O_3 nanoparticles added to $YBa_2Cu_3O_{7-d}$ superconductor."	Journal of Alloys and Compounds 852 (2021) 157019.
3	Algarni, R., Y. Slimani, E. Hannachi, M. A. Almessiere, B. H. Alqahtani, S. Akhtar, and F. Ben Azzouz.	"Intergrain connectivity in $YBa_2Cu_3O_{7-\delta}$ superconductor added with Dy_2O_3 nanoparticles: AC susceptibility investigation."	Current Applied Physics 27 (2021) 89-97
4	Almessiere, M. A., Y. Slimani, E. Hannachi, R. Algarni, and F. Ben Azzouz.	"Impact of Dy_2O_3 nanoparticles additions on the properties of porous YBCO ceramics."	Journal of Materials Science: Materials in Electronics 30, no. 19 (2019) 17572-17582.
5	Y. Slimani , M.A. Almessiere, E. Hannachi, A. Manikandan, R. Algarni, A. Baykal, F. Ben Azzouz.	" Flux pinning properties of YBCO added by WO3 nanoparticles."	Journal of Alloys and Compounds 810 (2019) 151884.

Refereed Scientific Research Papers Accepted for Publication

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

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

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

Completed Research Projects

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

Current Researches

#	Research Title	Name of Investigator(s)

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The second scientific conference	Jeddah (28-31 Mars 2011)	participant
	for students of higher education.		
	Post titled "Effect of the		
	confinement in the nanoscale on		
	the optical properties of		
	nanohybrid material."		
2	The 4th Saudi International	King Fahd University of Petroleum and	Attendance
	Nanotechnology Conference (SINC	Minerals (KFUPM)-Dhahran (25-26 Oct.	
	2016)	2016)	
3	Electron Microscopes	Imam Abdulrahman bin Faisal	Attendance
		University (2013)	
4	Arab conference on development	King Fahd University of Petroleum and	Attendance
	and economic impacts of	Minerals (KFUPM)-Dhahran (27-29 Mars	
	nanotechnology	2010)	
5	Carbon Nanotubes (CNTs):	King Fahd University of Petroleum and	Attendance
	Synthesis, Purification,	Minerals (KFUPM)-Dhahran (26-27 May	
	Characterization and Applications	2009)	

Membership of Scientific and Professional Societies and Organizations

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Teaching Activities

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Physics I	PHYS 102	Labs + Lectures (theoretical)
2	Physics I	PHYS 202	Labs
3	General Physics (1)	PHYS 101N	Labs

4	General Physics (2)	PHYS 132N	Labs
5	General Physics (3)	PHYS 201N	Labs
6	Electronics (2)	PHYS 308N	Labs
7	Solid state physics I (structure of materials and	PHYS 511	Labs
	diffraction)		
8	Practical Physics (1)	PHYS 306N	Labs
9	Practical Physics (2)	PHYS 407N	Labs
10	Electricity and magnetism (1)	لايوجد	Labs
11	Electricity and magnetism (2)	لايوجد	Labs
12	Properties of the material and heat	لايوجد	Labs
13	Atomic and molecular spectroscopy	لايوجد	Lectures (exercises)
14	Principle of physics	لايوجد	Labs+ Lectures (exercises)

ef Description of Undergraduate Courses Taught: (Course Title – Code: Description)	

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1			
2			

Brief Description of Postgraduate Courses Taught: (Course Title - Code: Description)

1	1	
2	2	

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	То

Guest/Invited Lectures for Undergraduate Students

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

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	То
	All undergraduate levels	19	2014	2017

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

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

Administrative Responsibilities

#	From	То	Position	Organization
1	1435	1436	Member	Scientific Research committee
2	1436	1437	Member	Student guidance
3	1437	1438	Member	Physics club committee
4	1437	1438	Member	Library affairs committee
5	1438	1439	Member	Strategic planning and risk management committee
6	1444	Now	Head	Activities committee

Committee Membership

#	From	То	Position	Organization

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

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#	From	To	Type of Volunteer	Organization
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1	5 June 2016	26 June 2016	instructor	Mawhiba Summer Enrichment Program 2016 - King
				Abdul-Aziz & his Companions Foundation for
				Giftedness and Creativity

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

1	Analyzing data by using programs such as origin, match3! and fullprof program ect.		
2	Certificate of Coaching training program from Medex international training and research		
3	Attended several workshops as planning, management of training and meetings etc.		
4	Participate in several social activities and some of the charity and Holy Quran associations		

Last Update

2/2/2023

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