

Norah Abdullah R Algarou

POSITION: Assistant professor

Personal Data

Nationality | Saudi

Date of Birth | 02/Aug/1986

Department | Physics

Official UoD Email | nalgarou@iau.edu.sa

Office Phone No. | 01333-37234

Cited by

	All	Since 2018
Citations	934	931
<u>h-index</u>	15	15
i10-index	15	15

Language Proficiency

Language	Read	Write	Speak
Arabic	\checkmark	√	\checkmark
English	\checkmark	✓	✓
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
11-October-	Doctor of Philosophy in	Imam Abdulrahman Bin	Saudi Arabia
2022	Physics (Material Physics)	Faisal University	Imam Abdulrahman Bin Faisal
۵ ۱ ٤ ٤ ٤ /٣/١٥			University
19- Nov- 2015	Master of science	Leeds University	United kingdom of Great Britain
	(Nanoscale Science &		Leeds University
	Technology)		Faculty of Engineering
			Chemical & Process Engineering
			School
۱٤۲٩/٦/٢٨ هـ	Bachelor in science	King Faisal University in	Saudi Arabia
(2008)	(Physics)	Dammam (Currently	Imam Abdulrahman Bin Faisal
		Imam Abdulrahman Bin	University
		Faisal University)	Faculty of Science
			Physics department



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

PhD	Enhanced magnetic and structural properties of functional hard/soft ferrite nanocomposites for microwave application
Master	A silver nanomesh for solar cells

Professional Record: (Beginning with the most recent)

Job Rank		Place and Address of Work		Date
Assistant professor	Physics department	Faculty of science	Imam Abdulrahman Bin Faisal University	13/4/2023 G 22/9/1444 H
Lecturer	Physics department	Faculty of science	Imam Abdulrahman Bin Faisal University	(2016) G 24/8/1437 H
Demonstrator	Physics department	Faculty of science	Imam Abdulrahman Bin Faisal University	11/10/1430 H

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	Research Title	Publisher and Date of
	Investigator(s)		Publication
1	M.A. Almessiere, Y. Slimani, N.A. Algarou , M.G. Vakhitov, D.S. Klygach, A. Baykal, T.I. Zubar, S.V. Trukhanov, A.V. Trukhanov, H. Attia, M. Sertkol, I.A. Auwal	Tuning the Structure, Magnetic, and High Frequency Properties of Sc-Doped Sr _{0.5} Ba _{0.5} Sc _x Fe _{12-x} O ₁₉ / NiFe ₂ O ₄ Hard/Soft Nanocomposites.	Adv. Electron. Mater. 8 (2022) 2101124.
2	M.A. Almessiere, N.A. Algarou , Y. Slimani, A. Sadaqat, A. Baykal, A. Manikandan, S.V. Trukhanov, A.V. Trukhanov, I. Ercan	Investigation of exchange coupling and microwave properties of hard/ soft (SrNi _{0.02} Zr _{0.01} Fe _{11.96} O ₁₉)/(CoFe ₂ O ₄) _x nanocomposites.	Mater. Today Nano. 18 (2022) 100186.
3	Y. Slimani, N.A. Algarou , M.A. Almessiere, A. Sadaqat, M.G. Vakhitov,	Fabrication of exchange coupled hard/soft magnetic nanocomposites: Correlation	Arab. J. Chem. 14 (2021) 102992.



	D.S. Klygach, D.I. Tishkevich, A.V. Trukhanov, S. Güner, A.S. Hakeem, I.A. Auwal, A. Baykal, A. Manikandan, I. Ercan	between composition, magnetic, optical and microwave properties.	
4	M.A. Almessiere, Y. Slimani, N.A. Algarou , M.A. Gondal, Y.S. Wudil, M. Younas, I.A. Auwal, A. Baykal, A. Manikandan, T.I. Zubar, V.G. Kostishin, A.V. Trukhanov, I. Ercan	Electronic, magnetic, and microwave properties of hard/soft nanocomposites based on hexaferrite $SrNi_{0.02}Zr_{0.01}Fe_{11.96}O_{19}$ with variable spinel phase MFe ₂ O ₄ (M = Mn, Co, Cu, and Zn).	Ceram. Int. 47 (2021) 35209- 35223.
5	M.A. Almessiere, Y. Slimani, A.V. Trukhanov, A. Sadaqat, A. Demir Korkmaz, N.A. Algarou , H. Aydın, A. Baykal, Muhammet S. Toprak	Review on functional bi-component nanocomposites based on hard/soft ferrites: structural, magnetic, electrical and microwave absorption properties.	Nano-Struct. Nano-Objects. 26 (2021) 100728.
6	Mohammad Azam Ansari, Hani Manssor Albetran, Muidh Hamed Alheshibri, Abdelmajid Timoumi, Norah Abdullah Algarou , Sultan Akhtar, Yassine Slimani, Munirah Abdullah Almessiere, Fatimah Saad Alahmari, Abdulhadi Baykal, It-Meng Low	Synthesis of Electrospun TiO ₂ Nanofibers and Characterization of Their Antibacterial and Antibiofilm Potential against Gram-Positive and Gram-Negative Bacteria.	New Insights on Biofilm Antimicrobial Strategies (2021) 8, 227.
7	N.A. Algarou , Y. Slimani, M.A. Almessiere, A. Baykal	Exchange-coupling behavior in $SrTb_{0.01}Tm_{0.01}Fe_{11.98}O_{19}/(CoFe_2O_4)_x$ hard/soft nanocomposites.	New J. Chem. 44 (2020) 5800-5808.
8	N.A. Algarou , Y. Slimani, M.A. Almessiere, S. Güner, A. Baykal, I. Ercan, P. Kögerler	Exchange-coupling effect in hard/soft SrTb _{0.01} Tm _{0.01} Fe _{11.98} O ₁₉ / AFe ₂ O ₄ (where A = Co, Ni, Zn, Cu and Mn) composites.	Ceram. Int. 46 (2020) 7089– 7098.
9	N.A. Algarou, Y. Slimani, M.A. Almessiere, A. Sadaqat, A.V. Trukhanov, M.A. Gondal, A.S. Hakeem, S.V. Trukhanov, M.G. Vakhitov, D.S. Klygach, A. Manikandan, A. Baykal	Functional Sr _{0.5} Ba _{0.5} Sm _{0.02} Fe _{11.98} O ₄ /x(Ni _{0.8} Zn _{0.2} Fe ₂ O ₄) Hard–Soft Ferrite Nanocomposites: Structure, Magnetic and Microwave Properties.	Nanomaterials. 10 (2020) 2134.
10	N.A. Algarou, Y. Slimani, M.A. Almessiere, F.S. Alahmari, M.G. Vakhitov, D.S. Klygach, S.V. Trukhanov, A.V. Trukhanov, A. Baykal	Magnetic and Microwave properties of $SrFe_{12}O_{19}/MCe_{0.04}Fe_{1.96}O_4$ (M = Ni, Co, Cu, Mn, and Zn) hard/soft nanocomposites.	J. Mater. Res. Technol. 9 (2020) 5858-5870.



11	N.A. Algarou, Y. Slimani, M.A. Almessiere, S. Rehman, M. Younas, B. Unal, A. Demir Korkmaz, M.A. Gondal, A.V. Trukhanov, A. Baykal, I. Nahvi N.A. Algarou, Y. Slimani, M.A. Almessiere, A. Baykal,	Developing the magnetic, dielectric and anticandidal characteristics of $SrFe_{12}O_{19}/(Mg_{0.5}Cd_{0.5}Dy_{0.03}Fe_{1.97}O_4)_x$ hard/soft nanocomposites.	J. Taiwan Inst. Chem. Eng. 113 (2020) 344-362. J. Magn. Magn. Mater. 499 (2020) 166308.
	S. Guner, A. Manikandan, I. Ercan	MFe_2O_4 (M = Co, Ni, Cu, Mn and Zn) as hard/soft magnetic nanocomposites.	(2020) 100508.
13	A.V. Trukhanov, N.A. Algarou , Y. Slimani, M.A. Almessiere, A. Baykal, D.I. Tishkevich, D.A. Vinnik, M.G. Vakhitov, D.S. Klygach, M.V. Silibin, T.I. Zubar, S.V. Trukhanov	Peculiarities of the microwave properties of hard-soft functional composites $SrTb_{0.01}Tm_{0.01}Fe_{11.98}O_{19}$ -AFe ₂ O ₄ (A = Co, Ni, Zn, Cu and Mn).	RSC Adv. 10 (2020) 32638 – 32651.
14	M.A. Almessiere, Y. Slimani, H. Gungunes, M. Sertkol, M. Nawaz, N.A. Algarou, A. Baykal, I. Ercan	Tb ³⁺ substituted strontium hexaferrites: Structural, magnetic and optical investigation and cation distribution.	J. Rare Earths. 38 (2020) 402- 410.
15	M.A. Almessiere, B. Unal, Y. Slimani, A. Demir Korkmaz, N.A. Algarou, A. Baykal	Electrical and dielectric properties of Nb ³⁺ ions substituted Ba-hexaferrites.	J. Results Phys.14 (2019) 102468.
16	Munirah A. Almessiere, Yassine Slimani, Norah A. Algarou, Maksim G. Vakhitov, Ayse Demir Korkmaz, Abdulhadi Baykal, Denis S. Klygach, Tatiana I. Zubar, Anwar UI-Hamid, Sergei V. Trukhanov, Alex V. Trukhanov.	Impact of the indium content on structural, magnetic, and electrodynamic properties of nanocomposites based on In- substituted Sr hexaferrite and Ni-Zn spinel ferrite with excellent absorption characteristics	Ceram. Int. 49 (2023) 12885- 12894.

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	Research Title	Conference and Publication
	Investigator(s)		Date



Completed Research Projects

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

Current Researches

#	Research Title	Name of Investigator(s)
	Synthesis and Characterisationof Nanostructured	Albetran, Hani., Algarou, Norah., ALHESHIBRI,
	Transition Metal Oxide, and their Heterostructure for	MUIDH., Low, I.M
	Photocatalytic Applications (2020-086-CED)	

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The 4th Saudi International Nanotechnology Conference (SINC 2016)	King Fahd Conference Center- Building 60 King Fahd University of Petroleum and Minerals (KFUPM) Dhahran- Kingdom of Saudi Arabia 25th -27th October	Attendance only
2	The Third Forum for Women in Research	AT the University of Sharjah United Arab Emirates, Sharjah 25th August 2022	Oral
3	TheInternationalConferenceandExhibition for Science	KSA-Riyadh – King Saud University 6-8/02/2023	Attendance only - virtual

Membership of Scientific and Professional Societies and Organizations

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Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Physics I	PHYS 202	Labs + Theoretical
2	General Physics (2)	PHYS 132N	Labs + Lectures (exercises)
3	General Physics (1)	PHYS 101N	Labs + Lectures (exercises)



4	General Physics (3)	PHYS 201N	Labs
5	Practical Physics (1)	PHYS 306N	Labs
6	Solid State Physics (1)	PHYS 401N	Labs
7	Electronics (2)	PHYS 308N	Labs
8	Solid State Physics (2)		Labs
9	Atomic and molecular spectroscopy		Labs
10	Electricity and magnetism (1)		Labs + Lectures (exercises)
11	Electricity and magnetism (2)		Labs
12	Electronics (1)		Lectures (exercises)
13	Properties of the material and heat		Labs
14	Waves		Lectures (exercises)
15	Electronics		Labs
16	Principle of Physics		Labs + Lectures (exercises)
17	Physics I	PHYS 102	Theoretical + Labs
18	Physics II (Mechanics and Waves)	PHYS 206	Theoretical
19	Electricity and magnetism	PHYS 203	Theoretical + Labs

Brief 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	
2	

Course Coordination

#	Course Title and	Coordinati	Co-	Undergr	Postgrad	From	То
	Code	on	coordination	ad.	•		
1	Physics I – PHYS 202 (Practical part)	\checkmark		✓		May - 2016	2017
2	Physics II (Mechanics and Waves) - PHYS 206	✓		✓		12/3/2 022	22/6/ 2023
3	Electricity and magnetism - PHYS 203	✓		✓		20/8/2 023	4/1/2 023



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
1	All undergraduate levels	21	1436 H Oct -2016	1439 H 2018
2	All undergraduate levels	13	1444 H -2022	1445H- 2023

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
	8/6/2023 G 19/11/1444 H	Now	Head	Third Standard: Students of the steering committee for self-evaluation and self-study for academic accreditation of the Physics program.

Committee Membership

#	From	То	Position	Organization	
1			Member	Member Tables and registration courses	
2			Member Advisory Committee		
3			Member Exams Organization		
4			Member	Development Committee	



5	Member	Academic Advising Committee	
6	Member	ember Monitoring Committee	
7	Member	Quality Committee (NCAAA)	
8	Member	Activities Committee	
9	Member	Physics Club	
10	Member	Libraries Committee	
11	Head	Field Training and Graduates Affairs	
		Committee	
12	Member	Quality Assurance Committee	

Scientific Consultations

#	From	То	Institute	Full-time or Part-time

Volunteer Work

#	From	То	Type of Volunteer	Organization
1	24/2/2011 G 21/3/1432 H	1/3/2011 G 26/3/1432 H	Social, cultural (coach - Supervisor) Invention system program (Supervision of some students' inventions & Participation in training some students in the invention program)	The first training center of the Department of Education for Girls in Dammam system
2			Sport, Social. Participation in the walk marathon at the University of Dammam (athlete)	University of Dammam (Imam Abdulrahman Bin Faisal University)
3	1-2-2023 G 10/7/144 H	4-2-2023 G 13/7/1444 H	Project Refereeing - Adjudication of scientific projects for students participating in the Ibdaa Science and Engineering Fair in Dhahran (Ibdaa 2023) which is a competition based on competition in one of the scientific fields, by presenting individual scientific projects under the required special standards and controls, so that whoever will represent the Kingdom at the International Science and Engineering Exhibition "ISEF" in the United States of America is chosen.	 -Science and Engineering Exhibition "National Olympiad for Scientific Creativity (Ibdaa 2023)". -Organized by King Abdulaziz and His Companions Foundation for Giftedness and Creativity and Ministry of Education. -Hosted by King Fahd University of Petroleum and Minerals.
4	16/2/2023 G 25/07/144 4 H	16/2/2023 G 25/07/144 4 H	Event Coordination - Second Scientific Poster Day Event	Second Scientific Poster Day organized by the Physics Department - College of Science - Imam Abdulrahman Bin Faisal University.
5	1/3/2023 G 09/08/144 4 H	1/3/2023 G 09/08/144 4 H	Event Coordination -2nd Annual Poster Day for Physics Students (2023)	2nd Annual Poster Day for Physics Students (2023) organized by the Physics Department - College of Science - Imam Abdulrahman Bin Faisal University.



6	17/3/2023 G 25/8/1444 H	31/5/2023 G 11/11/144 4 H	Event Organization- Graduation Day Event	Graduation Day Event organized by the Graduates Affairs Committee -Physics Department - Alumni and Career Development Unit- College of Science - Imam Abdulrahman Bin Faisal University.
7	14/5/2023 28/11/144 5 H	14/5/2023 28/11/144 5 H	Event Organization- Exhibition of course projects for the first semester of 1445 H.	Exhibition of course projects for the first semester of 1445 H organized by the Physics Department - College of Science - Imam Abdulrahman Bin Faisal University.

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

1	ICDL (the International Computer Driving License) (Computer)
2	Using some programs for simulation (OOMMF) (Origin) (Information technology skill)
3	Analyzing data by using programs such as (Origin), (SPSS) (Information technology skill)
4	Influencing Skills, Problem Solving, Fostering Teams, Organizing skills (in Labs) (Technical skills)
5	Rietveld analysis of diffraction data (commercial licensed software Match3! and the FullProf program)

Last Update

23/12/2023

ORCID ID: <u>https://orcid.org/0000-0002-1175-0494</u> Scopus: <u>https://www.scopus.com/authid/detail.uri?authorId=57209393541</u> Google Scholar: <u>https://scholar.google.com/citations?user=w8v2MzAAAAAJ&hl=ar</u> Research Gate: <u>https://www.researchgate.net/profile/Norah-Algarou</u> Web of Science: <u>https://www.webofscience.com/wos/author/search</u> LinkedIn: <u>linkedin.com/in/norah-algarou-183396264</u>