Staff Handbook

Physics Department

Kingdom of Saudi Arabia
Ministry of Education
Um Al-Qura University
Faculty of Applied Sciences

1437-1438 H
2016 - 2017

Introduction:

Physics Department at Faculty of Science, Umm Al-Qura University employs a highly qualified 75 expert teaching staff members. The staff members are distributed between Al-Zaher campus for female and Al-Abdia campus for male students. Table 1 shows the distribution of professors, associate professors, assistant professor, lecturer, and demonstrators in male and female campus of the physics department. Out of 75 staff members, 58 are full-time teaching staff, while 17 are full-time scientific researcher. Some of the full-time researchers are cooperating with other institutes inside KSA and outside KSA, and the others are PhD and MSc candidates in various international universities (in the USA, UK, and other countries). Figure 1 shows the distribution of staff members according to their academic degrees, male and female, and full-time teaching staff and full-time researcher staff, in 2017. Out of 75 staff members, 43 members hold PhD. The PhD's staff are distributed as 37 members for pure physcis and 8 members for medical physics. All PhD's staff teach the courses of phsyics and medical physics.

The staff involved were invited to work at the physics department from different countries and different graduation institutions. According to the competence, staff resources are suited to conduct the physics programs. The staff's expertise is sufficiently supportive to the structure and curriculum of the physics and medical physics programs. More details about the staff members in the physics department, such as the specialty, Nationalities, and PhD-graduation institutes are given in Table 2.

In addition, there are 19 technicians, which are distributed as 11 male and 8 female technicians, as shown in table 3.

Apindex I : CV's of the leadership

Apindex II : CV's of the staff member

Apindex III : CV's of the technicians.

Table 1: Staff contributing in the Physics Department (2016-2017)

Position	Physics		Medical Physics		Total
	Male	Female	Male	Female	
Professors	4	-	3	-	7
Associate Professors	5	-	0	-	5
Assistant Professor	17	9	3	2	31
Lecturer	3	8	-	2	13
Demonstrator	4	13	-	2	19
Total Academic staff	33	31	6	5	75
Technician	9	6	2	2	19

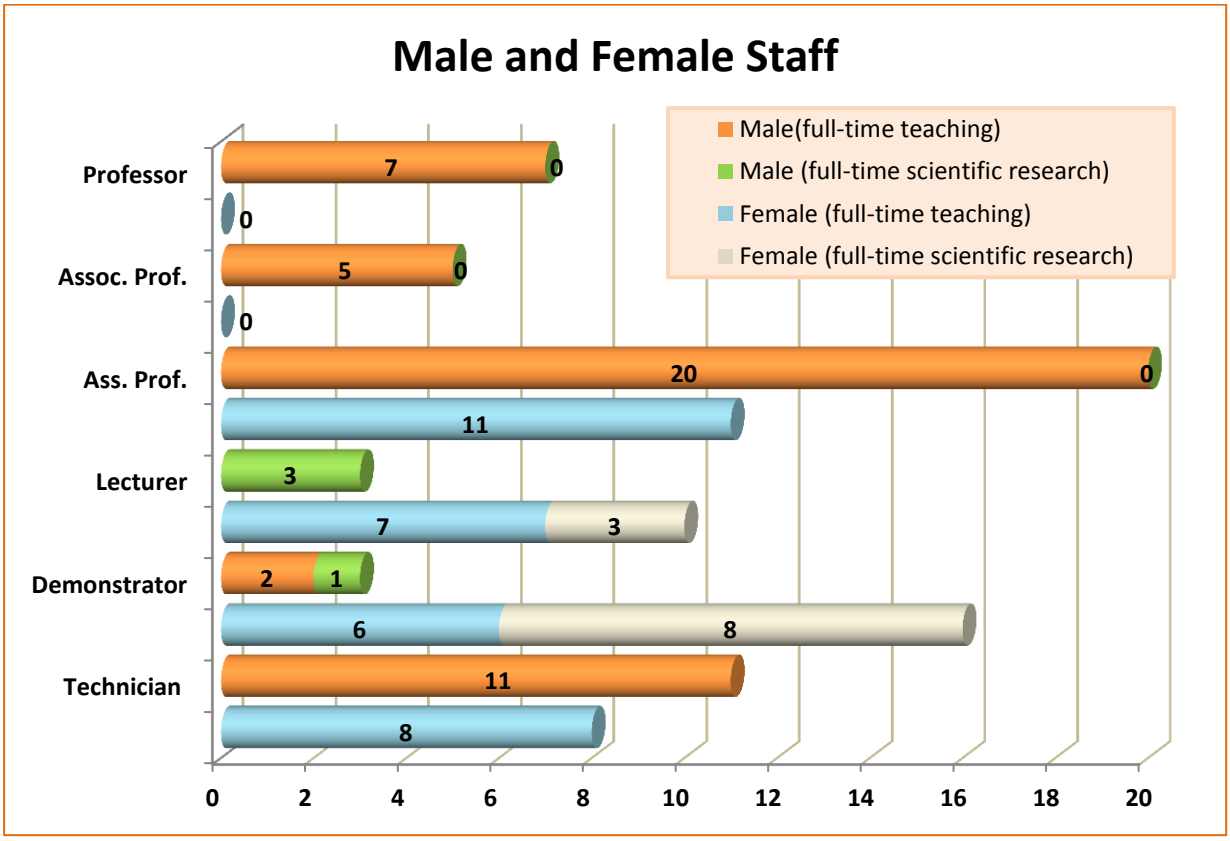

Figure 1: Staff members' distribution in the Physics Department (2016-2017).

Table 2: List of staff members in the physics department (2016-2017)

No.	Faculty/ Teaching Staff Names		full time Teaching / Research	Nationality	Academic rank	Speciality		Institution graduated from	Degree
	Name	M/F				General	Specific		
1	Abdul_Mageed Omr Ali Tayomi	M	T	Tunesian	Ass. Prof.	Physics	Solid state	University of Tunis Elmanar	Ph.D
2	Abdul_Rahman Masood Daif Allah Al_Oteebi	M	T	Saudi	Demonstrator	Physics	Physics		MSc.
3	Abdul_Rahman Yosef Moham-ad Lasheen	M	T	Egyptian	Ass. Prof.	Physics	Materials science	Brno Univer-sity of tech-nology	Ph.D
4	Abeer Ahmad Abdullah Al_Sreehi	F	T	Saudi	Demonstrator	Medical Physics	Medical Physics		MSc.
5	Adel Mohamad Al_Hashemi Al_Madani	M	T	Tunesian	Assoc. Prof.	Physics	Solid state	Tunis Univer-sity	Ph.D
6	Afaf Moawad Abdul_Mageed Ali	F	T	Egyptian	Ass. Prof.	Physics	optics	Mansoura University	Ph.D
7	Ahmad Makbool Mohamad Hekami	M	T	Saudi	Ass. Prof.	Physics	Physics		Ph.D
8	Ahmad Mohamed Abd-ElHadi Saidi	M	R	Saudi	Lecturer	Physics			MSc.
9	Ahmad Mohamad El_Hady Abdul_Ghafa Abdul_Ati	M	T	Egyptian	Assoc. Prof.	Physics	Solid state	Halle witten-berg	Ph.D
10	Al_Hussieny Al_Taher Mahdy Mohamed	M	T	Egyptian	Ass. Prof.	Physics	Radiation Physics	Ain Shams University	Ph.D
11	Al_Mongy Al_Sasi Omar Bin-mos	M	T	Tunesian	Ass. Prof.	Physics	Solid State	University of Tunis Elmanar	Ph.D
12	Ali Saleh Aal_Sharaa Al_Shamrani	M	T	Saudi	Ass. Prof.	Physics	Solid State		Ph. D
13	Amal Ibrahim Al-Saadii	F	R	Saudi	Demonstrator	Physics			BSc.
14	Amani Ibrahim Saleh Al-Alawi	F	T	Saudi	Ass. Prof.	Medical Physics	Medical Physics	University of Surrey	Ph.D
15	Ameena Naif Mohamad Al_Ahmadi	F	T	Saudi	Ass. Prof.	Physics	NANO SCIENCE	Ohio Univer-sity	Ph.D
16	Anas Alaa Asad Mohder	M	T	Saudi	Demonstrator	Physics	PHYSICS		BSc.
17	Arwa Mohamad Ab-dul_Hakeem Bokhari	F	T	Saudi	Demonstrator	Physics	PHYSICS		MSc.
18	Asmhan Saud Ali Al_Shekhi	F	R	Saudi	Demonstrator	Physics	PHYSICS		BSc.
19	Atif Ismale El-Hasaneen	M	T	Egyptian	Ass. Prof.	Physics	Theoretical Physics	Hamburg Uinversity	Ph.D
20	Badee Abd-Elhaleem Awiess	M	T	Egyptian	Ass. Prof.	Physics	PHYSICS	Cairo Univer-sity	Ph.D
21	Balsam Fahd Ebraheem Soofi	F	R	Saudi	Demonstrator	Medical Physics	Medical Physics		BSc.
22	Banan Bahawarith	F	T	Saudi	Demonstrator	Medical Physics	PHYISCS		BSc.
23	Danya Abdul_Rehem Meki Sendi	F	T	Saudi	Demonstrator	Physics	PHYSICS		BSc.

No.	Faculty/ Teaching Staff Names		full time Teaching / Research	Nationality	Academic rank	Speciality		Institution graduated from	Degree
	Name	M/F				General	Specific		
24	Doaa Abdul_llah sayed Mahmood	F	T	Egyptian	Ass. Prof.	Physics	Computer in Physics	Ain Shams University	Ph.D
25	Ebthal Mastoor Khedr Al_Thebeti	F	T	Saudi	Demonstrator	Physics	Physics		BSc.
26	Efat Abdul_Allah Ali Ali Rashed	F	R	Saudi	Lecturer	Physics	Physics		MSc.
27	Eman Abdul_Baset Gaber Madkhli	F	R	Saudi	Demonstrator	Physics	Physics		BSc.
28	Eman Ahmad Abdul_Raheem Bokhari	F	R	Saudi	Demonstrator	Physics	Physics		BSc.
29	Imtenan Tallal Al-Utabi	F	R	Saudi	Lecturer	Physics	Physics		MSc.
30	Isam Hamed Mohamad Al_Ahdal	M	T	Saudi	Prof.	Physics	Optics	Ohio University	Ph.D
31	Fadia AbdElaziz Abdullha Ibrahim	F	R	Saudi	Demonstrator	Physics	Physics		BSc.
32	Fahad Abdullah Shokr Al_Hashemi	M	T	Saudi	Ass. Prof.	Physics	Physics		Ph.D
33	Fatma El-Sayed Mahrous Othman	F	T	Egypt	Ass. Prof.	Physics	Theoretical Physics	Tanta University	Ph.D
34	Fayz Hmad Hmood Al-Ghorabie	M	T	Saudi	Prof.	Medical Physics	Medical Physics	Wales University	Ph.D
35	Fayza Abdul_Kader Hasan Agag	F	T	Saudi	Lecturer	Physics	Nuclear Physics		MSc.
36	Galal El_Naser El_Hady Al_Wafalyi	M	T	Tunesian	Ass. Prof.	Physics	Solid State	Nantes University	Ph.D
37	Ghada Abd-Elrahman Kheder Mobark	F	R	Saudi	Lecturer	Physics	Physics		BSc.
38	Hanan Aish Zamel Al-Utabi	F	T	Saudi	Demonstrator	Physics	Soid State		MSc.
39	Hanan Hosien Ebraheem Amer	F	T	Egyptian	Ass. Prof.	Medical Physics	Medical Physics	Cairo University	Ph.D
40	Hend Abdul_Aziz Ahmad Al_Hagagi	F	T	Saudi	Lecturer	Physics	Optics		MSc.
41	Hoda Ahmad Abdullah Al_Allawi	F	R	Saudi	Demonstrator	Physics	Physics		BSc.
42	Hoda Gowybr Aneez Al_Salmi	F	T	Saudi	Lecturer	Physics	PHYSICS		MSc.
43	Hosam Salah El_Deen Mohamad Ebraheem	M	T	Egyptian	Ass. Prof.	Medical Physics	Medical Physics	Mansoura University	Ph.D
44	Khaled Abdul_Waged Mohamad Abdul_Lateef	M	T	Egyptian	Prof.	Physics	Nuclear Physics	Banha University	Ph.D
45	Kahled Al-Thqafi	M	T	Saudi	Ass. Prof.				Ph.D
46	Mashael Saud El-Harbi	F	T	Saudi	Lecturer	Medical Physics	Medical Physics		MSc.
47	Mehrz Al_Sheryani Mohamad Lolo	M	T	Tunesian	Ass. Prof.	Physics	Solid State	University of Tunis Elmanar	Ph.D
48	Mohamad Omar Boustimi	M	T	Franch	Ass. Prof.	Physics	Atomic Physics	Paris University	Ph.D
49	Mohamad Abdul_Aziz Mohamad Sedeeq Kutb	M	R	Saudi	Demonstrator	Physics	Physics		BSc.
50	Mohamad Khalel Mohamad Al_Turkestani	M	T	Saudi	Ass. Prof.	Physics	Solid State	Durham University	Ph.D
51	Mohamad mahmod Sabri Salah El_Deen Mohamad	M	T	Egyptian	Assoc. Prof.	Physics	Renewable energy	Ain Shams University	Ph.D

No.	Faculty/ Teaching Staff Names		full time Teaching / Research	Nationality	Academic rank	Speciality		Institution graduated from	Degree
	Name	M/F				General	Specific		
52	Mohamad Owaid Fahd Al_Omary	M	R	Saudi	Lecturer	Physics	Physics		MSc.
53	Mona Abd El-Khalek Mohaseeb	F	T	Egyptian	Ass. Prof.	Physics	Bio-Physics	Alfara-bi_Kazakh National University	Ph.D.
54	Naser alian El-Hazmi	F	R	Saudi	Demonstrator	Physics	Physics		BSc.
55	Noha Farag Mohamad Abdullah Al_Harbi	F	T	Saudi	Lecturer	Physics	Physics		MSc.
56	Noha Abd El-Haleem Filmban	F	T	Saudi	Ass. Prof.	Physics	Theoretical Physics	King Saud University	Ph.D
57	Noor Mahmod Mohamad Ab-dullah Basafr	F	R	Saudi	Demonstrator	Physics	Condensed matter		MSc..
58	Omaima Abdul_llah Ab-dul_Raheem Bawazeer	F	R	Saudi	Demonstrator	Physics	Physics		BSc.
59	Rabab Khaled Mohamad Sendi	F	T	Saudi	Ass. Prof.	Physics	Physics		Ph.D
60	Ramadan Ali Hasan Ali	M	T	Egyptian	Ass. Prof.	Medical Physics	Medical Physics	Cairo Univer-sity	Ph.D
61	Reem Abdul-Aziz Al-Theqafee	F	T	Saudi	Lecturer	Physics	Physics		MSc.
62	Roshdi Saudi Mohamad Awad	M	T	Egyptian	Prof.	Physics	Spectros-copy	Cairo Univer-sity	Ph.D
63	Said Mohamad Mohamad Attia	M	T	Egyptian	Assoc. Prof.	Physics	Solid State	Tongji Uni-versity	Ph.D
64	Saleh Marzook Berki Al_Lokmani	M	T	Saudi	Ass. Prof.	Physics	Soid State	Durham University	Ph.D
65	Sameer Solyman Ahmad Natto	M	T	Saudi	Prof.	Medical Physics	Medical Physics	Wales Uni-versity	Ph.D
66	Samr Mohamad Sadoon Al_Selmi	F	T	Saudi	Lecturer	Physics	Solid State		MSc.
67	Saud Hameed Ahmad Al_ahyani	M	T	Saudi	Prof.	Medical Physics	Medical Physics	Surrey Uni-versity	Ph.D
68	Taha Mohamad Taha Al_Fawaal	M	T	Egyptian	Ass. Prof.	Medical Physics	Radiation Physics	Cairo Univer-sity	Ph.D
69	Tasneem Malak Mohamad Deen Azeem	F	T	Bakistani	Ass. Prof.	Physics	Nuclear Physics		Ph.D
70	Thamer Salman Faleh Al_Omeery	M	T	Saudi	Ass. Prof.	Physics	polymer	Curtin Uni-versity	Ph.D
71	Turky Othman Hameed Al_Maatani	M	R	Saudi	Lecturer	Physics	Physics		MSc.
72	Waleed Blkasem Al_Ekremi Balhag	M	T	Tunesian	Ass. Prof.	Physics	Theoretical Physics	University of Tunis Elmanar	Ph.D
73	Waleed Gameel Ahmad Altaf	M	T	Saudi	Assoc. Prof.	Physics	Radiation Physics	University of Surrey	Ph.D
74	Yosry Mohamad Eid Moustafa	M	T	Egyptian	Prof.	Physics	Solid State	Odesa State University	Ph.D
75	Zaynab Solyman Ali Matter	F	T	Saudi	Ass. Prof.	Physics	Nuclear Physics	Cairo Univer-sity	Ph.D

T= full time teaching; R= full time Reaserch.

Table 3: The technicians in the physics department (2016-2017).

	Technician	Qulifications	Responsibility	Campus
1	Jar Allah Saeed Al-Tawili	Diploma of Minute Labs	Laborartory of General Phsycis (1)	Al-abdia
2	Mazen Mohamed Omar Bashraf	BSc. of Chemistry	Laboratory of General Physics (2)	Al-abdia
3	Yousef Ahmed Alassmari	Graduated from Technical college in Electronics	Laboratory of electricity and Magnetism	Al-abdia
4	Mohamed Abdullah Omar Mirah	Diploma of Optics	Laboratory of Measuring Instruments	Al-abdia
5	Mazen Mohsen Malkan Al-Jawi	Diploma of Optics	Laboratory of Optics	Al-abdia
6	Jameel Ahmed Hameed Alhazmi	BSc. of Physics	Laboratories of Modern and Nuclear Physics	Al-abdia
7	Hussein Hasen Althebyani	BSc. of Physics	Laboratories of Eelctron-ics	Al-abdia
8	Maher Abdullah Al-Kasim	BSc. of Physics	Laboratory of General Physics (2)	Al-abdia
9	Hussein Ali Al-Hashmi	BSc. of Physics	Laboratory of electricity and Magnetism	Al-abdia
10	Alaa Abdularahman Alsubaie	BSc. of Physics	Laobratory of Medical physics	Al-abdia
11	Yaser Mohammed Bahashwan	BSc. of Physics	Laobratory of Medical physics	Al-abdia
12	Maysoon Rashed Albalbesi	BSc. of Physics	Lab. of general physics 1 and 2	Al-zahir
13	Darien Abdullah ajaj	BSc. of Biology	Lab. of Nuclear Physics	Al-zahir
14	Zakia Mohsen Al-Kathiri	Diploma of laborato-ries	Lab. of Modern Physcis	Al-zahir
15	Fatma Shafi Al-Hoqbani	BSc. of Physics Master of education	Lab. of electronics and Lab. of measuring in-struments	Al-zahir
16	Maatoka Mohamed Salem	Diploma of laborato-ries	Lab. of Optics	Al-zahir
17	Israa Abdulghafour Obied	BSc. of computer science	Lab. of general physics 1 and 2	Al-zahir
18	Wadha Farag Alotaibi	BSc. of Physics	Lab. of Nuclear	Al-zahir
19	Suha Abdullah Khan	MSc. of Physics	Lab of optics and Medi-cal Laboratoreis	Al-zahir

Apindex I
Leaderships

Waleed Altaf

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Surrey University	UK	1989
M.Sc.	Surrey University	UK	1985
B.Sc.	Umm Al-Qura University	KSA	1983

Employment

Position	*Employer*	*Period*
Dean of Admission and Registration	Umm Al-Qura University	2009-2011
Head of physics department	Umm Al-Qura University	1996-2001

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

1.
2.
3.

Activities in specialist bodies over the last 5 years

Organization	Role	Period

Supervision of Research Students:			
Student Name	Degree	Title	Year

Teaching Experience

Fahad Alhasmi Alamar

Assistance Professor
Physics Department
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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	University of Connecticut	USA	2013
M.Sc.	University of Connecticut	USA	2011
M.Sc.	Umm AL-Qura University	KSA	2009
B.Sc.	Umm AL-Qura University	KSA	1999

Employment

Position	*Employer*	*Period*
Vice Dean of Academic development and Community Service	UQU	2014-Now
Head of Physics Department	UQU	2014
Vice Dean of Foundation Year	UQU	2013

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Investigation Electrodes Conductivities Effect on the Electro-Optic Properties of Solid-State Electrochromic devices	2016-2017	100,000 SAR

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*
1- (449910US-325159-325159-8) Method of Making Conductive Cotton Using Organic Conductive Polymer	2014
2- (UCT0204US 14-013) Method of infusing fibrous substrate with CONDUCTIVE ORGANIC PARTICLES and conductive polymer; and conductive fibrous substrates prepared therefrom	2013

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1- Solid-State High-Throughput Screening for Color Tuning of Electrochromic Polymers Fahad Alhashmi

Alamer, Michael T. Otley, Yujie Ding, and Gregory A. Sotzing, Adv. Mater. 2013, 25, 6256–6260.

2- Acrylated poly(3,4-propylenedioxythiophene) for enhancement of lifetime and optical properties for single-layer electrochromic devices Michael T. Otley, Fahad Alhashmi Alamer, Yumin Zhu, Ashwin Singhaviranon, Xiaozheng Zhang, Mengfang Li, Amrita Kumar, and Gregory A. Sotzing, Appl. Mater. Interfaces 2014, 6, 1734−1739.

3- Solid-state electrochromic devices: relationship of contrast as a function of device preparation parameters Amrita Kumara, Michael T. Otley, Fahad Alhasmi Alamar, Yumin Zhua, Blaise G. Ardenand Gregory Sotzing, JMC, 2013, 00, 1-3.

4-Electrochromic properties as a function of electrolyte on the performance of electrochromic devices consisting of a single-layer polymer Yumin Zhu, Michael T Otley, Fahad Alhashmi Alamer, Amrita Kumar, Xiaozheng Zhang, Donna MD Mamangun, Mengfang Li, Blaise G Arden, Gregory A Sotzing. Organic electronic, 2014, 15,7, 1378-1386

5-Preparation of conductive graphene/graphite infused fabrics using an interface trapping method, Carbon 2015, 81, 38-42 By Steven J Woltornist, Fahad Alhashmi Alamer, Austin McDannald, Menka Jain, Gregory A Sotzing, Douglas H Adamson.

6- Dependency of polyelectrolyte solvent composition on electrochromic photopic contrast, Solar Energy Materials and Solar Cells, 2105, 132, 131-135 By Fahad Alhashmi Alamer, Michael T Otley, Yumin Zhu, Amrita Kumar, Gregory A Sotzing.

7-Conductive polymer coated textile as wire replacement, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 2014, 247 By Gregory A Sotzing, Fahad A Alamer.

8- High-throughput screening of color for electrochromic polymers, 2014, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 247, Michael T Otley, Fahad Alhashmi Alamer, Gregory A Sotzing.

9- Optimization of gel electrolyte towards high photopic contrast polymeric electrochromic devices, 2014, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 247, Yumin Zhu, Amrita Kumar, Fahad Alhashmi Alamer, Michael T Otley, Gregory A Sotzing.

10- Importance of stereochemistry of 1, 3-substituted poly (3, 4-propylenedioxythiophene) s on optoelectronic properties, 2014, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 247, Michael T Otley, Fahad Alhashmi Alamer, Alhashmi Alamer, Yumin Zhu, Amrita Kumar, Gregory A Sotzing.

11- Simple, one-step procedure to make conductive polymers for solid state electrochromic devices, 2014, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 247, A Kumar, Y Zhu, FA Alamer, MT Otley, GA Sotzing.

12- Conjugated polymer formation with assembled devices for electrochromics, 2014, ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 247, A Kumar, Y Zhu, MT Otley, Fahad Alhashmi Alamer, GA Sotzing.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

1- General Physics 101
2- General Physics 102
3- Theoretical Physic (I)
4- Quantum Mechanics (I)
5- Advanced Statistical Mechanics

Hatem R. Alamri

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Homepage:

Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Curtin University	Australia	2013
M.Sc.	Oklahoma State university	USA	2005
B.Sc.	Umm Al-Qura University	Saudi Arabia	1997

Employment

Position	*Employer*	*Period*
Head of Physics Dept.	Umm Al-Qura University	2015 till Now
Vise Dean of Innovation and Entrepreneurship Institute	Umm Al-Qura University	2015 -2016
Head of Physics Dept.	Jamoum College-UQU	2013-2015

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

Book-Chapters

1. Alhuthali, A., **H. Alamri**, and I. M. Low. 2011. Physical, flammability and mechanical properties of polymer eco-nanocomposites. In *Fibre reinforced composites*, ed. Quingzheng (George) Cheng, 105-124. Hauppauge, New York, USA: Nova Science Publishers Inc.

2. **Alamri, H.**, A. Alhuthali, and I. M. Low. 2010. Mechanical properties and moisture absorption behaviour of cellulose-fibre reinforced polymer composites. In *Green composites: Properties, design and life cycle assessment*, ed. F. Willems and P. Moens, 175-196. New York, USA: Nova Publishers.

Journal Papers

1. **Alamri, H**., and I. M. Low. 2010. Characterization and properties of recycled cellulose fibre reinforced epoxy-hybrid clay nanocomposites. *Materials Science Forum* 654-656: 2624-2627.
2. **Alamri, H.,** and I. M. Low. 2012. Mechanical properties and water absorption behaviour of recycled cellulose fibre reinforced epoxy composites. *Polymer Testing* 31(5): 620-628.
3. **Alamri, H.,** I. M. Low, and Z. Alothman. 2012. Mechanical, thermal and microstructural characteristics of cellulose fibre reinforced epoxy/organoclay nanocomposites. *Composites Part B: Engineering* 43: 2762-2771.
4. **Alamri, H.,** and I. M. Low. 2012. Microstructural, mechanical, and thermal characteristics of recycled cellulose fibre-halloysite-epoxy hybrid nanocomposites. *Polymer Composites,* 33(4): 589-600.
5. **Alamri, H.,** and I. M. Low. 2012. Characterization of epoxy hybrid composites filled with cellulose fibres and nano-SiC. *Journal of Applied Polymer Science* 126: 221-231.
6. **Alamri, H.,** and I. M. Low. 2012. Effect of water absorption on the mechanical properties of nano-filler reinforced epoxy nanocomposites. *Materials and Design* 42: 214-222.
7. **Alamri, H.,** and I. M. Low. 2012. Effect of water absorption on the mechanical properties of n-SiC filled recycled cellulose fibre reinforced epoxy eco-nanocomposites. *Polymer Testing,*31(6): 810-818.
8. **Alamri, H.,** and I. M. Low. 2013. Effect of water absorption on the mechanical properties of nanoclay filled recycled cellulose fibre reinforced epoxy hybrid nanocomposites. *Composites Part A: Applied Science and Manufacturing* 44: 23-31.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

Physics 102

Solid state Physics

Modern Physics

Radiation Physics

Zinab soliman matar

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Academic career

Degree	*Institution*	country	*Year*
Ph.D	*Cairo University Faculty of Science*	*Egypt*	*2011*
M.Sc	*Cairo University Faculty of Science*	*Egypt*	*2007*
B.Sc	King Abdulaziz University	Saudi Arabia	2001

Employment

Position	*Employer*	*Period*
Associated Professor	Umm Al-Qura University	*20/4/1433*

Research and development projects over the last 5 years

project Name	*Period*	*Amount of financing*
Multiplicity Characteristics of Fragments produced in 4.5 A GeV/c ^{24}Mg – Emulsion interaction.	*2012*	
Analysis of Fast and Slow Particles Production from the Interaction of ^{24}Mg with Emulsion Nuclei at 4.5A GeV/c	*2012*	

Industry collaborations over the last 5 years

Title	*year*

Patents and proprietary rights

Title	*year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1.

2.	
3.	
4.	
5.	

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience	
Nuclear Physics	403460-4
Nuclear Physics	433361-4
Nuclear Physics 2	433461-3
Radiation Physics	433462-3
Solid State Physics 2	433472-2
Thermodynamics	403210-3
Thermodynamics	433212-3
Nuclear Technology	433463-2
Traditional Physics	403200-4
Graduation Project	433493-5

Apindex II
Academic Staff

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Academic career:

Degree	*Institution*	*country*	*Year*
Doctoral Thesis	Faculty of Sciences of Tunis	Tunisia	2010
Master	Faculty of Sciences of Tunis	Tunisia	2003
Maîtrise Physics Science	Faculty of Sciences of Monastir	Tunisia	2001

Employment:

Position	*Employer*	*Period*
Assistant Professor	UMM AL-QURA UNIVERSITY	2012-2015
Assistant Professor	University of Tunis	2010-2012
Assistant	University of Tunis	2005-2010
Assistant	University of Tunis	2003-2005

Research and development projects over the last 5 years:

Project Name	*Period*	*Amount of financing*
1- Synthesis a New rare earth Phthalocyanine Derivatives for creating Advanced Organic Solar Cell	2015-2017	290,000 SAR
2-Synthesis and characterization of graphene oxide GRO and In_2S_3-GRO for application in solar cells	2015-2016	175,000 SAR

Industry collaborations over the last 5 years:

Title	*Year*

Patents and proprietary rights:

Title	*Year*

Important publications over the last 5 years:

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue,

page numbers

1. Properties and electrical study of In_2S_3/SnO_2/glass substrates, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, 2(2013) 5207-5212.
2. Optical constants of Na–In_2S_3 thin films prepared by vacuum thermal evaporation technique, A. Timoumi, H. Bouzouita, B. Rezig, Thin Solid Films 519 (2011) 7615-761.
3. Properties of In_2O_3 films obtained by thermal oxidation of sprayedIn_2S_3 M. Kraini, N.Bouguila, I.Halidou, A.Timoumi, S.Alaya, Materials Science in Semiconductor Processing16 (2013)1388-1396.
4. Molar ratio S/In effect on properties of sprayed In_2S_3 films, N. Bouguila, A. Timoumi, H. Bouzouita, E. Lacaze, H. Bouchriha and Bahri Rezig, Eur. Phys. J. Appl. Phys. (2013) 63: 20301.
5. Thickness dependent physical properties of evaporated In_2S_3 films for photovoltaic application A. Timoumi, H. Bouzouita, International Journal of Renewable Energy Technology Research,Vol. 2, No. 7 (2013) 188-195.
6. Characterisation and Wemple-Didomenico Model of Indium Sulphide Thin Layers for Photovoltaic Applications, A. Timoumi, H. Bouzouita and B. Rezig Australian Journal of Basic and Applied Sciences, 7(2) (2013) 448-456.
7. Vacuum annealing temperature on spray In_2S_3 layers, N. Bouguila, A. Timoumi, and H. Bouzouita, Eur. Phys. J. Appl. Phys. (2014) 65: 20304.
8. Structural, morphological and optical properties of sprayed ZnS thinfilms on various substrate natures K. Ben Bacha, A. Timoumi, N. Bitri∗, H. Bouzouita, Optik 126 (2015) 3020–3024.
9. Structural, morphological and optical properties of annealed ZnS thin films deposited by spray technique, N.Bouguila, D. Bchiri, M. Kraini1, A. Timoumi, I. Halidou, K. Khirouni1, S. Alaya, J Mater Sci: Mater Electron, DOI 10.1007/s10854-015-3659-y (2015).

Activities in specialist bodies over the last 5 years:

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Kawther ben becha	Master	Synthesis and study of substrate nature on ZnS spray layers	2011

Teaching Experience:

2012- Now: College of Applied Sciences – Umm Al-Qura University

2005-2012: Higher Institute of education and continues training of Tunis

2006-2008: College of Applied Sciences – Tunis El Manar

2003-2005: National Engineering School of Tunis

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Brno University of Technology	Czech Republic	2008
MSc	Mansoura University	Egypt	2002
B.Sc.	Mansoura University	Egypt	1995

Employment

Position	*Employer*	*Period*
Ass. Prof.	Umm Al-Qura University, KSA	2011-Now
Lecturer	Mansoura University, Egypt	2011-Now
Researcher	Institute of physics of Materials/Czech Academy of Science, Czech Republic	2004-2008
Ass. Lecturer	Mansoura University, Egypt	2002-2008
Researcher	Poitiers University, France	2002-2003
Administrator	Mansoura University, Egypt	1996-2002

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Production of Nanostructure Materials used as Light Emitting Materials, 43305026	2013-2015	290,000 KSR
PV/T hybrid system using concentrated solar cell coupled with thermoelectric generator, 14-ENE2310-10	2015-2017	1,417,215 KSR
Concentrated Photovoltaic-Based Smart Windows, 15-ENE4678-10	2015-2017	1,629,610 KSR

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue,

page numbers

1. S.H.A. ALLEHYANI, R. SEOUDI, D.A. SAID, A.R. LASHIN and A. ABOUELSAYED, Synthesis, Characterization, and Size Control of Zinc Sulfide Nanoparticles Capped by Poly (ethylene glycol), Journal of ELECTRONIC MATERIALS 44 (2015) 4227-4235.
2. R. SEOUDI, S.H.A. ALLEHYANI, D.A. SAID, A.R. LASHIN, and A. ABOUELSAYED, Preparation, Characterization, and Size Control of Chemically Synthesized CdS Nanoparticles Capped with Poly (ethylene glycol), Journal of ELECTRONIC MATERIALS 44 (2015) 3367-3374.
3. R. Seoudi, M. G. Khafagi, A. Abouelsayed, A. R. Lashin, D. A. Said, M. Boustimi, Optical Properties of Phthalocyanine and its Metal Complexes Thin Films Prepared by Nd-YAG Laser Deposition Technique, JOURNAL OF ADVANCES IN PHYSICS 8 (2015)2189-2196.
4. A.R. Lashin, M. Mossa, A. El-Bediwi, M. Kamal, Study of some physical properties of the rapidly solidified Sn–Sb–Cu–Zn alloys, Materials & Design 43 (2013) 322–326.
5. A.R. Lashin, Oxidation of silicon from an Fe–6 at% Si alloy, Journal of Alloys and Compounds 567 (2013) 54–58.
6. Mustafa Kamal, A. El-Bediwi, A.R. Lashin, A.H. El-Zarka, Copper effects in mechanical properties of rapidly solidified Sn–Pb–Sb Babbitt bearing alloys, Materials Science and Engineering: A 530 (2011) 327–332.
7. Abu Bakr El-Bediwi, A.R. Lashin, M.Mossa, M.Kamal, Materials Science and Engineering A 528 (2011) 3568–3572.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Mansoura University, Egypt UMM A-Qura University, KSA	Member in the quality insurance committee	2008-2011 2011-Now
Mansoura University, Egypt UMM A-Qura University, KSA	Member in the Academic Advising Committee	2008-2011 2011-Now

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Mossa Mahmood	MSc.	Preparation and Characterization of Quaternary Tin – Antimony Based Bearing Alloys	2009-2011
Abdelhameed Abdelrahman	MSc.	Structural and physical properties of tin-antimony based heavy bearing alloys	2009-2011

Teaching Experience

Teaching experience more than 8 years as an assistant professor.

Adel Madani

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Al Manar University	Tunisia	1990
M.Sc.	Al Manar University	Tunisia	1985

Employment

Position	*Employer*	*Period*
Associate Professor	Faculty of Applied sciences -UQU	2012-Now
Associate Professor	Faculty of science Bizerte- Tunisia	2011-2012
Assistant Professor	Faculty of science Bizerte -Tunisia	1990-2011

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Synthesis and electrical characterization of anode materials for solid oxide fuel cells (KACST 35-87)	1436-1437	126,000 SAR

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1 . Fadhalaou i, A., Dhaouadi, H.,Marouani, H., (...), Madani, A.,Rzaigui, M. , Cr-substitution effect on structural, optical and electrical properties of CrxCe1-xPO4 (x = 0.00, 0.08, 0.10 and 0.20) nanorods Materials Research Bulletin, 2016 , 73, 8371, pp. 153-163

2. Boukhachem, A., Yumak, A.,Krichen, S., Madani, A. (...), Amlouk, M.,Bouchriha, H. Electrosynthesis and study of some physical properties of conductive and solid-state gas sensing polydiphenylamine, 2015, Source of the DocumentSensors and Actuators, A: Physical 227, pp. 11-20

3. Hassouna Dhaouadi & Amor Fadhalaoui , Adel Madani & Mohamed Rzaigui , Structural and electrical properties of nanostructured cerium phosphate , Ionics (2014) 20:857–866

4. Inoubli, A. Kahlaoui, M. Sobrados, I. Chefi, S. Madani, A. Sanz, J. Ben Haj Amara, A. Influence of anionic vacancies on the conductivity of La 9.33Si6-xAlxO26-x/2 oxide conductors with an oxyapatite structure , (2014) Journal of Power Sources

5. Abbassi, M. Ternane, R. Sobrados, I. Madani, A. Trabelsi-Ayadi, M. Sanz, J. Synthesis, characterization and oxide conduction in Ba doped apatite-type silicates Ca2La6Bi2(SiO4) 6O2 (2014) Materials Chemistry and Physics Volume 147, Issues 1–2, 15 September 2014, Pages 285–292

6. Inoubli, A. Kahlaoui, M. Chefi, S. Sobrados, I. Madani, A. Sanz, J. Ben Haj Amara, A. Structural aspects that enhance oxygen mobility in La9-2 x/3Mn0.5 REx□ 0.5-x/3(SiO4)6O 2 with RE = Ca, Sr and Ba (2014) Journal of Alloys and Compounds Volume 604, 15 August 2014, Pages 340–345

7. Kahlaoui, M. Inoubli, A. Chefi, S. Madani, A. Chefi, C. Electrochemical and structural study of neodymium nickelate thick film deposited by spin coating on an oxyapatite electrolyte (2014) Ionics Ionics (2014) 20:1729–1735

8. Abbassi, M. Ternane, R. Sobrados, I. Madani, A. Trabelsi-Ayadi, M. Sanz, J. Ionic conductivity of apatite-type solid electrolyte ceramics Ca 2-xBaxLa4Bi4(SiO4) 6O2 (0≤x≤2) (2013) Ceramics International Volume 39, Issue 8, December 2013, Pages 9215-9221

8. Kahlaoui, M. Inoubli, A. Chefi, S. Kouki, A. Madani, A. Chefi, C. Electrochemical and structural study of Ce0.8Sm 0.2-xLaxO1.9 electrolyte materials for SOFC (2013) Ceramics International

9. Kahlaoui, M. Chefi, S. Inoubli, A. **Madani, A**. Chefi, C.Synthesis and electrical properties of co-doping with La3+, Nd3+, Y3+, and Eu3+ citric acid-nitrate prepared samarium-doped ceria ceramics (2013) Ceramics International

10. Chefi, S. Kahlaoui, M. Inoubli, A. **Madani, A**. Hammou, A. Ageing effect on electrical properties of the oxyapatite/Nd 2NiO4 interface (2013) Ceramics International

11. Ouni, B. Haj Lakhdar, M. Boughalmi, R. Larbi, T. Boukhachem, A. Madani, A. Boubaker, K.Amlouk, M. Investigation of electrical and dielectric properties of antimony oxide (Sb2O4) semiconductor thin films for TCO and optoelectronic applications (2013) Journal of Non-Crystalline Solids

12. Tmar Trabelsi, I. **Madani, A**. Mercier, A.M. Toumi, M. Rietveld refinement and ionic conductivity of Ca 8.4Bi 1.6(PO 4) 6O 1.8 (2013) Journal of Solid State Chemistry

13. Khili, H. Chaari, N. **Madani, A**. Ratel-Ramond, N. Jaud, J. Chaabouni, S., Synthesis, crystal structure, vibrational properties and dielectric properties of 1-(2-ammonium-ethyl) pipérazindiium hexachloro-bismuthate(III) , 2012) Polyhedron

14. Boukhachem, A. Ouni, B. Karyaoui, M. **Madani, A**. Chtourou, R. Amlouk, M. Structural, opto-thermal and electrical properties of ZnO:Mo sprayed thin films , 2012) Materials Science in Semiconductor Processing

15. Hamrita, A. Ben Azzouz, F. **Madani, A.** Ben Salem, M., Magnetoresistivity and microstructure of YBa 2Cu 3O y prepared using planetary ball milling , 2012) Physica C: Superconductivity and its Applications.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Dania Abdulrahim Sendy	Master	Synthesis and characterization of oxides for SOFC	1436-1437

Teaching Experience

16 Years

Ahmed El-Hadi

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Halle -Wittenberg University	Germany	2002
M.Sc.	Bielefeld University	Germany	1998
B.Sc.	Zagazig University	Egypt	1986

Employment

Position	*Employer*	*Period*
Associate Professor	Umm Al-Qura University	2009 - Now
Assistant Professor	Higher Institute of Engineering and Technology in El-Arish	2007-2008

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
1. Fabrication of Biopolymers nanofibers by electrospinning for medical applications and industries. (SABIC company for petrochemicals, Research & Consulting Center)	One Year	40,000 RS
2. Improvement the physical properties of Poly lactic acid PLLA for medical applications and films for food packaging sectors (Institute of Scientific Research, project No. 43005001)	One Year	120,000 RS

Industry collaborations over the last 5 years

Title	*Year*
SABIC company for petrochemicals	2010

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Development of novel biopolymer blends based on poly (L-lactic acid) (PLLA), poly ((R)-3-hydroxybutyrate) (PHB) and plasticizer, in Polymer Engineering and Science (2014) Vol. 54 (6), 1394–1402,
2. Influence of microcrystalline cellulose fiber (MCCF) on the morphology of poly(3-hydroxybutyrate) (PHB), Colloid Polym Sci 91:743-756, 2013.
3. Enhancing the crystallization and orientation of electrospinning poly (lactic acid) (PLLA) by combining with additives, J. Poly. Res (2014) 21:605.

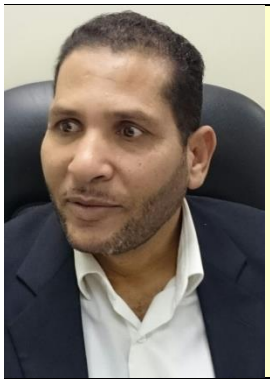
4. Effect of processing condition on the development of morphology features banded and non-banded spherulite of poly (3-hydroxybutyrate) PHB and poly(lactic) PLLA blends. Polymer Engineering and Science (2011), Vol. 51.
(www.freepatentsonline.com/article/ /272104919.html).
5. Investigation of the effect of nanoclay type on the non-isothermal crystallization kinetics and morphology of poly(3(R)-hydroxybutyrate) PHB/clay nanocomposites, polymer bulltein (2014) 71:1449–1470.

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Hanan Makallawi	M.Sc.	Effect of Plasticizers type and concentration on mechanical Properties and Biodegradability of Cellulose Blends	2015 - Now
Fatma Al-Gabri	M.Sc.	Biodegradable Conductive Composites: Preparation, Characterization and Applications	2015
Nour Basfer	M.Sc.	Study of some Mechanical, Electrical and optical Properties of Silicon	2013

Teaching Experience

7 years



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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Ain Shams University	Egypt	2010
M.Sc.	South Valley University	Egypt	2000
B.Sc.	Assiut University	Egypt	1995

Employment

Position	*Employer*	*Period*

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. H.T. Mahdy." Study of Trapping Parameters of Ge2Te3 by Computerised Glow-Curve Deconvolution (CGCD)".Taif University,KSA,13-15 fep/2012.
2. A. El-Taher, H.T. Mahdy and J.H. AlZahrani. "Determination of Thermoluminescence Kinetic Parameters of Bauxite by Computer Glow Curve Deconvolution Method (CGCD). Life Science Journal 2013;10(2)
3. A. El-Taher, H.T. Mahdy and J.H. AlZahrani. "Determination of Thermoluminescence Kinetic Parameters of In2Te5 by Computer Glow Curve Deconvolution Method (CGCD). Under Publishing.
4. H.T. Mahdy, A. El-Taher, Thermoluminescence properties of new ZnO , ZnS Cu, ZnS Ag, ZnSNi, nanophosphors exposed to Gamma Irradiation. Under Publishing
5. الفيزياء العامة للمعاقين لطلاب شعبة التربية الخاصة بكليات التربية تأليف د. يسري مصطفى, د الحسيني الطاهر, وأخرون, جامعة أم القرى, مكة المكرمة,٢٠١٦ تحت النشر.

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience
1- Umm Al Qura University in KSA from 15/9/2010 to up till Now
2- Higher Center for Comprehensive careers -sukna- Jufrah-Libya from 16/1/2003 to 13/3/2008

Mongi Sassi Amor Ben Moussa

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Academic career

Degree	Institution	country	Year
master	Al Manar University Faculty of sciences of tunis	tunisia	2002
Doctorate	Al Manar University Faculty of sciences of tunis	tunisia	2007

Employment

Position	Employer	Period
Assistant	Faculty of science monastir -Tunisia	2002-2007
Assistant professor	Faculty of science monastir- Tunisia	2007-2012
Assistant professor	Faculty of Applied sciences -UQU	2012-now

Research and development projects over the last 5 years

project Name	Period	Amount of financing
Synthesis and electrical characterization of anode materials for solid oxide fuel cells (Kacst 35-87)	1436-1437	126.000 SAR

Industry collaborations over the last 5 years

Title	year

Patents and proprietary rights	
Title	*year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. M. Ben Moussa, M, Abellaoui, J. Lamloumi, A. Percheron Guegan

Investigation on the structure, thermodynamic and electrochemical properties of the $MmNi_{3.55}Mn_{0.4}Al_{0.3}Fe_{0.75}$ compound used as negative electrode in Ni–MH batteries

Journal of Alloys and Compounds, Volume 575, 25 October 2013, Pages 414-418

2. A. Ben Fradj, M. Ben Moussa, M. Abdellaoui, J. Lamloumi

Study of Structural, Thermodynamic and Electrochemical Properties of $MmNi_{3.55}Mn_{0.4}Al_{0.3}Co_{0.75-x}Fe_x$ (x = 0 and 0.75) Compounds

American Journal of Energy and Power Engineering (2015) (impress)

ISSN: 2375-3897

3.

4.

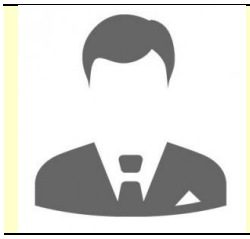
Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience

2002-2012 Faculty of Science of Monastir – Tunisia(optics, Nuclear physics, atomic physics, mechanics, electrostatic, magnetisms, thermodynamic, waves and vibrations, solid phsics,……

2012-2016 Faculty of Applied sciences –UQU (General physics II, optics, classical mechanics II, general physics I, electricity and magnetism, electromagnetism I, electromagnetism II, electromagnetism, nuclear technology, mathematical methods in physics I.



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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	University of Colorado	USA	2013
M.Sc.	Ohio University	USA	2006
B.Sc.	Umm Al-Qura University	Saudi Arabia	2000

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2013-Now
Teaching Assistant	Umm Al-Qura University	2003-2004
Teacher	Ministry of Education	2000-2003

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
NA			

Teaching Experience

Atif Mahmoud Ismail

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Hamburg University	Germany	2008
M.Sc.	Tanta University	Egypt	1997
B.Sc.	Tanta University	Egypt	1989

Employment

Position	*Employer*	*Period*
Lecturer	Physics Dept., Faculty of Science, kafrelsheikh Univ.	2010-2014
Lecturer	As above	2009-2010
Assistant Lecturer	As above	1998-2008
Demonstrator	Physics Dept., Faculty of Education, kafrelsheikh, Tanta Univ.	1991-1997

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
STDF Project	(2010—2013)	2 Million L.E

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Nagat Elkahwagy, Atif Ismail, Sana Maize, Kamal Reyad Mahmoud,A quantum Monte Carlo study of Lanthanum, WJCMP,physics, 2013, Vol. 3, No. 4

2. Nagat Elkahwagy, Atif Ismail, Sana Maize, Kamal Reyad Mahmoud,Study of the Lanthanides Ce to Eu by Means of Quantum Monte Carlo Methods, JCMP 2013, 1(2):13-16
3. Nagat Elkahwagy, Atif Ismail, Sana Maize, Kamal Reyad Mahmoud, Pseudopotential Calculations on Actinium and Thorium by Quantum Monte Carlo, IJMPSR, 2014, Vol. 1, Issue 1, pp: (25-29)

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Faculty of Science, kafrelsheikh Univ., Egypt	Manager of the Maintenance Unit	2011-2014

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Ebtehal Mastur Althobaiti	M.Sc.		2015- In progress
Nagat Mahmoud	Ph.D.		2014- In progress
Nagat Mahmoud	M.Sc.	Study some Quantum Monte Carlo Techniques and Applications.	Finished 2014

Teaching Experience

Undergraduate level courses:
e. g. Heat, Properties of Matter, Geometrical & Physical Optics, E&M and EM Theory, Electrodynamics, Astrophysics, Plasma Physics, Elasticity Theory, Mathematical Physics, Numerical analysis, Modern Physics, Analytical Mechanics, Quantum Mechanics, Solid State Physics etc.

Graduate level courses: Adv. Quantum Mechanics- Mol. Spectroscopy- Adv. Mathematical Physics. etc.

Badie Korany

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Cairo University	Egypt/Germany	2005
M.Sc.	Cairo University	Egypt	1999
B.Sc.	Cairo University	Egypt	1992

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al Qura University	2010 - Now
Assistant Professor	National Research Institute, Egypt	2005-2010
Researcher Assistant	National Research Institute, Egypt	1999-2005

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1- M. M. Elkhateeb, M. I. Nouh, E. Elkholy, and B. Korany “An Extensive Photometric Investigation of the W UMa System DK Cyg” Journal of Astrophysics, Volume 2015, Article ID 590673, 8 pages
2- Nouh, M. I.; Saad, A. S.; Elkhateeb, M. M.; Korany, B “White Dwarf Stars as a Polytropic Gas Spheres “2014arXiv1406.1482N
3- Nouh, M. I.; Saad, S. M.; Korany, B.; Elkhamisy, M. A. Spectroscopic Analysis of the Eclipsing Binary α CrB , 2013JApA...34..193N

4- Hassan, M. A.; Korany, B. A.; Misra, R.; Issa, I. A. M.; Ahmed, M. K.; Abdel-Salam, F. A. 012Ap&SS.339.355H

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*
Mohamed Hassan Ali	M.Sc.	"Investigation of X-ray Sources Content in some Deep Extragalactic XMM- Newton Satellite Fields."	2009

Teaching Experience
Teaching postgraduate students at the National Research Institute
Teaching for undergraduate students at UQU-Physics Dept.

Issam Hammed Al-Ahdali

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Academic career

Degree	*Institution*	country	*Year*
Ph.D.	Birmingham, Alabama University	USA	1989
M.Sc.	Ohio University	USA	1983
B.Sc.	King Abdulaziz University	KSA	1976

Employment

Position	*Employer*	*Period*
Vice Rector of Umm-Al-Qura University for Academics Development and Social Services	Umm-Al-Qura University	2011-2014
Dean, Makkah Community College	Umm Al- Qura University	2009-2012
Chairman Physics Department	Umm Al- Qura University	1990-1994

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
1-Preparation and study of some properties of Bioactive Glasses and Glass ceramics	1 year	
2-Investigation of Optical and Physical Properties of Natural and Synthetic Fibers	2 year	

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. I. H Al-Ahdali, "The effects of the ray path of the linear and the quadratic axial gradient index

lens", 2006, Ultra Science Journal

2. I. H Al-Ahdali "The Effect of Mechanical Cold Drawing on Optical and Structural Properties of Annealed Polypropylene Fibers" Journal of Applied Polymer Science, 2006

3. Al-Hariby, N.F.Al., Kassim, A.M. and Al-Ahdali, I.H. (2015) Study and Design of Hybrid Triplet Lens, Optics and Photonics Journal, 5, 161-172

4. Issam H. Al-Ahdali, IS Ali, and MA El-Bakary,(2015)Bioactivity Assessment Of Some Borate Glasses Containing Copper, Research Journal of Pharmaceutical, Biological and Chemical Sciences

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Hind Abdualaziz Al-Hajjaji	M.Sc.	THE CHARACTERESTS OF RAYS PATHS IN A GRIN MEDIUM	2003

Teaching Experience

Optics, Advance Optics , Classical Mechanics, Advance Classical Mechanics, Electromagnetism, Electrodynamics.

Teaching experience is more than 27 years for most of physics courses

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	University of Wales-Swansea	United Kingdom	1996
M.Sc.	University of Surrey	United Kingdom	1992
B.Sc.	Umm Al-Qura University	Saudi Arabia	1988

Employment

Position	*Employer*	*Period*
Professor of Medical Physics	Umm Al-Qura University	2004-Now
Associate Professor of Medical Physics	Umm Al-Qura University	2000-2004
Assistant Professor of Medical Physics	Umm Al-Qura University	1996-2000
DEMONSTRATOR MEDICAL PHYSICS	Umm Al-Qura University	1989-1996

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Taha, M.T., Al-Ghorabie, F.H.H., Kutbi, R.A., Saib, W.K. Assessment of entrance skin doses for patients undergoing diagnostic X-ray examinations in King Abdullah Medical City, Makkah, KSA. *Journal of Radiation Research and Applied Sciences*, 2015, 8, 100-103.
2. Al-Ghorabie, F.H.H. Experimental measurements and Monte Carlo modelling of the XSTRAHL

150 superficial X-ray therapy unit. ***Journal of Radiotherapy in Practice***, 2015, 14, 43–55.

3. AL-Ghorabie, F.H.H. Computer simulation of a backscattered x-ray fluorescence system. ***Journal of X-Ray Science and Technology***, 2015, 23, 57–64.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Rana Ali Kutbi	M.Sc.	Assessment of Entrance Skin Dose for Patients Undergoing Diagnostic X-ray Examinations	2015
Samiah R. Filfilan	M.Sc.	Measurement of UVR produced by some artificial sources and the sunlight using TLD	2006

Teaching Experience

PHYSICS 101, PHYSICS 102 (ENGINEERING STUDENTS), MEDICAL IMAGING, RADIOTHERAPY PHYSICS, ULTRASOUND IN MEDICINE, MEDICAL RADIATION PHYSICS, RADIOISOTOPES IN MEDICINE, SUPERVISING HOSPITAL TRAINING, SUPERVISING BSC GRADUATION PROJECTS, MSC SPECIAL TOPICS COURSE.

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	U of Nantes	France	1997
M.Sc.	U of Nantes	France	1993

Employment

Position	*Employer*	*Period*
Assistant professor	Faculty of Applied sciences -UQU	2012-Now
Associate professor	I.P.E.I.Tunis - Tunisia	2011-2012
Assistant professor	I.P.E.I.Tunis -Tunisia	2000-2011
Assistant professor	U of Nantes France	1998-2000

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1- Mars, A., Essaidi, H., Ouerfelli, J., Gherouel, D. Optical and electrical measurement of FeSe2 thin films obtained at low temperature (2015) Materials Science in Semiconductor Processing, 40, art. no. 2803, pp. 319-324

2- Ben Messaoud, K., Gantassi, A., Essaidi, H., Ouerfelli, J., Colantoni, A., Boubaker, K., Amlouk, M. Structural and optothermal properties of iron ditelluride layered structures in the framework of the lattice compatibility theory (2014) Advances in Materials Science and Engineering, 2014, art. no. 534307.

3- Ben Messaoud, K., Ouerfelli, J., Boubaker, K., Amlouk, M. Structural properties of FeTe2 thin films synthesized by tellurization of amorphous iron oxide thin films (2013) Materials Science in Semiconductor Processing, 16 (6), pp. 1912-1917.

4- Drissi, N., Gassoumi, A., Boughzala, H., Ouerfelli, J., Kanzari, M. Investigation of structural and optical properties of the sulfosalt SnSb4S7 thin films (2013) Journal of Molecular Structure, 1047, pp. 61-65.

5- Bouaziz, M., Ouerfelli, J., Srivastava, S.K., Bernde, J.C, Amlouk, M. Growth of Cu2SnS3 thin films by solid reaction under sulphur atmosphere (2011) Vacuum, 85 (8), pp. 783-786.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

2015-2016	Classical Phys , Electromagnetic 1
2014-2015	Thermodynamics , Phys 102,Electromagnetic 1, Electronics
2013-2014	Thermodynamics, Phys 101, Electronics
2012-2013	Thermodynamics, Phys 101 – UQU
2000-2011	I.P.E.I.Tunis – Tunisia

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Mansoura University	Egypt	2008
M.Sc.	Mansoura University	Egypt	2003
B.Sc.	Mansoura University	Egypt	1998

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2011 - Now
Assistant Professor	Mansoura University	2008 - 2011
Lecturer	Mansoura University	2003 - 2008
Instructor	Mansoura University	1998 - 2003

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Innovative approach for biotechnological production of nanoparticles by cloning and overexpression of nitrate reductase gene into bacterial genome, KACST King Abdulaziz City for Science and Technology (KACST), KSA.	Feb 2015	Under Revision
Studying effects of extremely low frequency magnetic fields on bacterial growth, Deanship of Research, Umm Al-Qura University, Kingdom of Saudi Arabia.	May 2015	Under Revision

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*
Innovative Approach for Biotechnological production of nanoparticles by cloning and overexpression of Nitrate reductase gene into Bacterial genome (Ref #2015021000002), IPMO, Umm Al-Qura University, Kingdom of Saudi Arabia.	Feb 2015

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1- Spectroscopic study on the effects of ionizing and non-ionizing radiation on some biophysical properties of rats' blood (in vivo study), 11th International Conference of chemistry and its application, Mansoura University, Mansoura, Egypt, 11-15 march, 2013.

2- "Effect of heparin calcium different concentrations on some physical properties and structure in polyacrylamide matrix", Physica B 405 (2010) 4339–4343 , E.M. Abdelrazek, Hosam S. Ibrahim.

3- Effects of exposure to single electric, fast neutrons fields and mixed fields on rats erythrocytes membranes fragility and solubility", Romanian J. Biophys., 2010, M.A. Fadel , S.I. Hosam, S.A. Eman.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Health Ministry, Egypt	Consultant and expert of ionizing and non-ionizing radiation protection	2009 - Now

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

1) Biomechanics (403393) 3 credit
2) Physics of Membrane and Macromolecules (403298) 3 credit
3) Electrical Properties of Bio-fluids (403296) 2 credit
4) Laser in Medicine (403333) 3 credit
5) Medical Physics (403391) 3 credit
6) Computer in Medicine (403483) 1 credit
7) Introduction to Biophysics (BP211) (FACULTY OF SCIENCE MANSOURA UNIVERSITY).
8) Environmental Biophysics (BP221) (FACULTY OF SCIENCE MANSOURA UNIVERSITY).
9) Molecular Biophysics (BP311) (FACULTY OF SCIENCE MANSOURA UNIVERSITY).

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Benha University	Egypt	1996
Ph.D.	Joint institute for nuclear Research	Russia	1994
M.Sc.	Benha University	Egypt	1992
B.Sc.	Benha University	Egypt	1987

Employment

Position	*Employer*	*Period*
Full Professor	Umm Al-Qura University	2007-Now
Associate Professor	Umm Al-Qura University	2002-2007
Assistance Professor	Umm Al-Qura University	2000-2002
Assistance Professor	Benha University	1996-2000

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Geant4 hadronic cascade models…	2010-2012	550,000 SR

Industry collaborations over the last 5 years

Title	Year

Patents and proprietary rights

Title	Year

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. “Interpretation of charged particle spectra in p+p and p+Pb collisions at CERN Large Hadron Col-

lider energies", Phys. Rev. C 91, 034908 (2015).

2. "Lightening-like interactions in nuclear collisions at CERN large hadron collider", Proceedings of Science (EPS-HEP 2015) 190.
3. "Geant4 hadronic cascade models analysis of proton and…" Physical Review C 84, 014905 (2011).
4. "Isospin effects in a covariant transport approach to spallation…", Physical Review C 81, 014605 (2010).
5. "Enabling comparison of UrQMD with Geant4 hadronic cascade models", CERN-LCGAPP-2010-04 (2010).

Activities in specialist bodies over the last 5 years

Organization	Role	Period

Supervision of Research Students:

Student Name	Degree	Title	Year
Sheren Al-Salami	M.Sc.	Influence of initial configuration	2010
Nuha Felemban	M.Sc.	Study of nucleon induced reactions	2006
Fathia Kari	M.Sc.	Study of Spallation neutrons	2005

Teaching Experience

4 years in Benha University- Egypt

16 years in Umm Al-Qura University- Saudi Arabia

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Faculty of Sciences of Tunis	Tunisia	2009
M.Sc.	High school of Science and Technology of Tunis	Tunisia	2004

Employment

Position	*Employer*	*Period*
Assistant professor	Umm Al-Qura University	2012 to present
Assistant professor	University of Tunisia	2009-2012

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Nonlinear electrical model of solar cells	2015/2016	77,800 Rs

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1- M. Loulou, M K Al Turkestani, M. Abdelkrim. A linear interpolation method to extract solar cell series resistance and quality factor. Accepted for publication in Journal of Nanoelectronics and Optoelectronics (2015)

2- M. Loulou, M K Al Turkestani, M. Abdelkrim, J P Charles. "Sensibility of Electrical Parameters to the Illumination Intensity in solar cells". Journal of Optoelectronics and Advanced Materials 16 (2014) 1121-1125.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience		
2012 to present	Assistant professor	Umm Al-Qura University
2009-2012	Assistant professor	University of Tunisia

Mohamed BOUTIMI

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Université Paris 13	France	2000
Ph.D.	Chouaib Doukkali University	Morocco	1997

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	Since 2008
Collaborator researcher	Fondation Louis de Broglie	2005-2008
Post-doctoral Research Fellowship	Cork Institute of Technology	2003-2004
Post-doctoral Research Fellowship	Universita di Studanti	2001-2002

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. "Atomic interference patterns in the transverse plane " M. Boustimi et al. **Physical Review A 61**, 33602 (2000)
2. "Atom symmetry break and metastable level coupling in rare gas-surface vdWinteraction"M. Boustimi et al. **Physical Review Letters 86**, 2766 (2001)

3. ". van der Waals interaction between an atom and a metallic naNowire." M. Boustimi et al. Physical Review B, 65, 155402 (2002)
4. "Molecules interacting with a metallic nano-wire" M. Boustimi et al. **Physical Review B 67,** 45407 (2002)
5. "Optical properties of metallic nanowires" M. Boustimi et al. Optics Communications, 220, 377(2003)

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Sadia Akram Al-deen	Master	Electromagnetic medialization od certain nano-optical system	2013-2015

Teaching Experience

7 years

Mohamed AL-Turkestani

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Durham University	UK	2010
M.Sc.	King Abdulaziz University	KSA	2005
B.Sc.	Umm Al-Qura University	KSA	2000

Employment

Position	*Employer*	*Period*
Assistance Professor	Umm Al-Qura University	2010 - Now

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Nonlinear electrical model of solar cells	2015/2016	77,800 SR

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

1- M.Loulou, M.K. Al Turkestani , M. Abdelkarim , J-P.Charls. Sensibility of electrical parameters to the illumination intensity in solar cells. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Vol. 16, No.9-10 September-October 2014, p.1121-1125.

2- M.K. Al Turkestani. Effect of the geometrical structure of the front contact probe on series resistance of CdTe\CdS solar cells. Journal of King Abdulaziz University science 25 No.2 (2013) 3-16.

3- M.K. Al Turkestani. Impact of CdTe\CdS Solar Cell Size on photovoltaic working Parameters. Phys. Chem. News 70 (2013) 01-06.

4- M.K. Al Turkestani and K. Durose (2011). Rectification in CdTe\CdS bilayers. Solar Energy materials and Solar Cells 95(2) p:491-496.

5- Y.Y. Proskuryakov, K. Durose M. K. Al Turkestani, I.Mora-Sero , G. Garcia-Belmonte, F . Fabregat – Santiago, j. Bisquert, V. Barrioz, D. Lamb, S. J. C. Irvine and E. W. Jones (2009). Impedance spectroscopy of thin-film CdTe\CdS solar cells under varied illumination Journal of Applied physics 106(4) p:44507-44515.

6- Y.Y. Proskuryakov, K. Durose M. K. Al Turkestani , J. D. Major , V. Barrioz, , S. J. C. Irvine and E. W. Jones (2009). Doping levels, trap density of states and performance of co-doped CdTe (As,Cl) photovoltaic devices. Solar Energy Materials and Solar Cells 93(9) p:1572-1581.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

Mohamed Sabry

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Helwan / Loughborough	Egypt/UK	2003
M.Sc.	Ain Shams University	Egypt	1997
B.Sc.	Ain Shams University	Egypt	1989

Employment

Position	*Employer*	*Period*
Associate Professor	School of applied science, Umm Al Qura University, KSA	2012 - NOW
Associate Professor	National Research Institute, Egypt	2010-2011
Assistant Professor Research Associate	Civil and Mechanical Department, School of Engineering, University of Warwick, UK	2007-2009
Assistant Professor	National Research Institute, Egypt	2003-2007

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Solar Energy Electrical Generator	2 years	SR 120,000
Novel Solar PV/T Thermoelectric Generators	2 years	SR 1,600,000
Concentrated Photovoltaic-Based Smart Windows	2 years	SR 1,700,000

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Sabry, M., Eames, P. C., Singh, H. & Wu, Y. Smart windows: Thermal modelling and evaluation. Sol. Energy 103, 200–209
2. Sabry, M., Abdel-Hadi, Y. A. & Ghitas, A. PV-integrated CPC for transparent façades. Energy Build. 66, 480–484
3. M.Sabry , Mouaaz Nahas & Saud H. Al-Lehyani, Simulation of a Standalone, Portable Steam Generator Driven by a Solar Concentrator. Energies 8(5), 3867-3881
4. Wu, Y., Eames, P., Mallick, T. & Sabry, M. Experimental characterisation of a Fresnel lens photovoltaic concentrating system. Sol. Energy 86, 430–440
5. Afaf M. Abd El-Hameed, M. Sabry, Ahmed Ghitas, Fatma S. El-Tokhy, Viktor Schlosser. The Performance of Silicon Solar Cells Exposed to a Simulated Low Earth Orbit Plasma Environment: Laboratory Ground Tests. Journal of Electronic Materials 44(12), 4740-4746

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience
Teaching for undergraduate students at UQU-Physics Dept., Makkah, Saudi Arabia
Teaching for undergraduate students at Warwick University, School of Engineering, Coventry, England
Teaching postgraduate students at the National Research Institute, Egypt

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Academic career

Degree	*Institution*	Country	*Year*
Ph.D.	Cairo University	Egypt	2006
M.Sc.	Cairo University	Egypt	2001
B.Sc.	Cairo University	Egypt	1989

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2008 - Now
Lecturer	National Cancer Institute, Cairo University, Egypt	2006 –Till Now
Consultant Physicist	Damietta Oncology Center, Egypt	1998 – Nov.2000
Medical Physicist	National Cancer Institute, Cairo University, Egypt	1993 – Oct.2006
Lecturer of Medical Physics	Health Technical Institute, Ministry of Health, Egypt	2006 – Nov.2008

Research and development projects over the last 5 years

project Name	*Period*	*Amount of financing*
Technique for evaluation eye lens doses received by medical staff	2014 -Now	250,000 SR

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. *Hany A. Shousha; Hamed Farag; Ramadan A. Hassan Measurement of doses to the extremities of nuclear medicine staff Radiation Effects and Defects in Solids: Incorporating Plasma Science and Plasma Technology, 1029-4953, Volume 165, Issue 1, First published 2010, Pages 16 – 22*
2. *R.A. Hassan "Effect of room temperature variation on gamma camera photopeak and uniformity" Umm Al-Qura Univ. J. Sci. Med. Eng. Vol. 19,No.1,2010 pp.71 -82*
3. *Hamed Farag, Ramadan Ali Hassan, Shimaa Mohamed "Potentiality of Melatonin as a Radiation Protector Against Hemoglobin Damage in the Experimental Animals Due to Gamma Irradiation" XI Radiation Physics and Protection Conference 25 -28 November 2012, Cairo, Egypt*
4. *S. Al Lehyani, R.A. Hassan "Fingers Doses for Nuclear Medicine occupational " Isotope & Radiation research (2015)*

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Abeer Ahmad Alharbi	M.Sc.	Preparation, Characterization and Biomedical Application Studies of Some Magnetic Nanomaterials	2015

Teaching Experience

Teaching the Medical physics subjects, University of Umm Al-Qura, 2009 tell Now.

Lecturer of Medical physics National Cancer Institute, Cairo University 2006 –Till Now

Lecturer of Nuclear Medicine (2006 – Nov.2008) in the Health technical institute, Ministry of Health - Banha.

Lecturer of Medical physics (2007 – Nov.2008) in the Health technical institute, Ministry of Health- Cairo.

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Academic career

Degree	Institution	country	Year
B.Sc Degree	*Mansoura University*	*Egypt*	*1991*
M.Sc Degree	*Cairo University*	*Egypt*	*1998*
Ph.D Degree	*Cairo University*	*Egypt*	*2002*

Employment

Position	Employer	Period
Teach Assistance	*Mansoura University*	*Dec 1992: April 1993*
Researcher Assistant	*National Institute for Standards*	*May1993: Nov.1993*
Researcher Assistant	*National Research Center*	*Dec.1993: April 1998*
Assistant Researcher	*National Research Center*	*Apr. 1998: June 2002*
Researcher	*National Research Center*	*June 2002:2007*
Associate Professor	*National Research Center*	*Aug. 2007- Oct. 2008*
Visitor Assistant professor	*Laser dynamic Laboratory,Georgia Institute of Technology, USA.*	*Sept.2008-July 2009*
Associate Professor	*National Research Center*	*Aug. 2009-Oct.2009*
Associate Professor	*Umm Al Qura University*	*Sept.2009-2012*
Professor	*Umm Al Qura University*	*2012- to now*

Research and development projects over the last 5 years

project Name	Period	Amount of financing
Improve the Conversion Efficiency of Organic Semiconductor Solar Cell	*2014-2016*	
Preparation and investigation of nanostructure materials as a light emitting substance	*2013-2015*	

Industry collaborations over the last 5 years

Title	year

Patents and proprietary rights

Title	year

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

5. ***R. SEOUDI**, S.H.A. ALLEHYANI, D.A. SAID, A.R. LASHIN, and A. ABOUELSAYED, "Preparation, Characterization, and Size Control of Chemically Synthesized CdS Nanoparticles Capped with Poly(ethylene glycol)", Journal of ELECTRONIC MATERIALS, Vol. 44, No. 10, 2015, 3367-3374*
6. ***R. Seoudi** , A. A. Shabaka, M. Moharm, N. Abd Al-Hakeem, W.Eisa, B. Anis, "Synthesis of Fullerene and its Additive Concentrations Effects on The Spectroscopic and Dielectric Properties of Polystyrene and Poly Methyl Methacrylate Films", The 5th National Conference on Optical Spectroscopy, Laser Their Applications, (2014)*
7. *Samir Y. Marzouk , **Roshdi Seoudi** , Doaa A. Said , Mai S. Mabrouk, " Linear and non-linear optics and FTIR characteristics of borosilicate glasses doped with gadolinium ions", Optical Materials 35 (2013) 2077–2084*
8. ***R. Seoudi**, A. Shabaka, Z.A. El Sayed, B. Anis, "Synthesis, Characterization and Optical Properties of Silver Nanoparticles with Different Sizes" Physica E 44 (2011) 440-447.*
9. ***R Seoudi** and Doaa A. Said "Studies on the Effect of the Capping Materials on the Spherical Gold Nanoparticles Catalytic Activity" World Journal of Nano Science and Engineering, 1(2011) 51-61*

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Umm Al-Qura University, Faculty of Applied Science, Quality Committee	*Member*	*2013-2016*
Umm Al-Qura University Faculty of Applied Science, Libraries Committee	*Member*	*2015-2016*
Umm Al-Qura University, Scientific Research Committee	*Member*	*2014-2015*
Umm Al-Qura University Faculty of Applied Science, Laboratory Committee	*Member*	*2014-2015*
Umm Al-Qura University, Physics Department, Quality Committee	*Coordinator*	*2013-2016*
Jmm Al-Qura University, Physics Department, Scientific Research Committee	*Member*	*2013-2014*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Ahmad Sobhy	*M.Sc.*	*Preparation and Spectroscopic Studies of some Chalcognides in the Nano-range*	*2005*
Hisham Mohamed	*M.Sc.*	*Effect of Lanthanide Ions Replacement on the Emigration and Exchange Reaction of Copper Ferrite Doped with Chromium*	*2006*
Rabab Ramdan	*Ph.D.*	*Spectroscopic and Electrical Studies of Some Nanometric Materials Doped in a Polymer*	*2012*
Wael H Essa	*Ph.D.*	*Synthesis, Spectroscopic and Application Studies of some (Chalcognide/Polymer) Nanocopmosites*	*2010*
Neven Ali	*M.Sc.*	*Preparation and Characterization of Polyaniline in Different Form (Nanopartice, Nanotube and Nanoroad)*	*2011*
Safa Mekawy	*Ph.D*	*Preparation, Characterization and Application of Different Form and Nanoparticle of Indium Tin Oxide*	*2012*
Fatama El-Marhaby	*M. Sc.*	*Synthesis, Spectroscopic and Photocatalytic Properties Studies of Some Metal Nanoparticles*	*2015*
Hawazen Al-thagafi	*M.Sc.*	*Preparation and Characterization of Some Metal Nanoparticles and Its application in Photovoltaic Cells*	*now*

Teaching Experience

Teach Assistance, Laboratory, Faculty of Science, Mansoura University, 1992-1993, Faculty of Science, Ein Shams University, 1997-1998, Faculty of Engineering, Menufia University, 1998-1999, Lecturer of Physics, Faculty of Education, Helwan University, 2006-2007, Faculty of Science Ismailia, Sues Canal University; (Course; Electrodynamics, X-Ray diffraction; Spectroscopy, Laser Physics, Advanced Optics, Organic and inorganic Nanostructure material, Renewable energy, 2004-2007, Teaching courses, National Research Center, Cairo, Egypt; (Infrared, ultraviolet, visible and near IR spectroscopy) for analysis of chemical compounds, 1995-2007, Lecturer of Physics, Faculty of Science, Umm Al-Qura University, KSA(Course; General Physics, Optics, Electromagnetism 1, Electromagnetism 2, Nuclear Technology, Laser in Medicine, Quantum Mechanics I, Mathematical Physics 2 Undergraduate student: Electrodynamic, Organic and inorganic nanostructure materials, Spectroscopy, Characterization Techniques Postgraduate student, 2009-

Awards and Honors

Certificate of Merit Medal, National Research Center, Egypt (2002), State Prize (Physics) for

Scientific Encouragement, Egypt (2006), Medal and a certificate of appreciation Syndicate of Scientific Professions (2007), Certificate of Merit Medal, National Research Center, Egypt (2008), Medal of the British University in Cairo (2008), Selected within a group of eminent scientists around the world; World Encyclopedia, Marquies Who's Who in the world (Science and Engineering) (2010), A certificate and prize for scientific publishing, Faculty of Applied Science, Amm Al-Qura University, KSA (2014)

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Academic career

Degree	*Institution*	country	*Year*
PhD	*Tongji University*	*China*	*2001*
MSc.	*Tanta University*	*Egypt*	*1994*
BSc	*Tanta University*	*Egypt*	*1988*

Employment

Position	*Employer*	*Period*
Associated Professor	*Umm Al-Qura University*	*2011-*
Associated Professor	*Kafrelshiekh university*	*2007-2011*
Assistant Professor	*Tanta university*	*2001-2007*
Lecturer	*Tanta University*	*1994-2001*
Demonstrator	*Tanta University*	*1988-1994*

Research and development projects over the last 5 years

project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*year*

Patents and proprietary rights

Title	*year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. M. R. Eraky, and S. M. Attia, Transport Properties of Ti-Ni Ferrites", Physica B 462 (2015)

	97
2.	Fatma El-Sayed, M. Kherd, and S. M. Attia, Energies and Transition Rates for Be-like Ions (Xe LI - Ce LV) Eur. Phys. J. Plus 130 (2015) 104.
3.	S. M. Attia, W. I. Abd Elgawad, M. M. Mossad, Synthesis and Characterization of Copper-Aerogel Composite" accepted by Journal of Physical and Chemical News (2015).
4.	S. M. Attia, T. Sharshar, A. R. Abd-Elwahed, A. Tawfik, Study of transport properties and conduction mechanism of pure and composite resorcinol formaldehyde aerogel doped with Co-ferrite" Journal of Material Science B, 178(2013) 897.
5.	S. M. Attia, and T. Meaz, "Dielectric Properties and Conduction Mechanism of Li-Ni-Ferrites" Egypt. J. Solids, 33 (2), (2010) 321-340
6.	S. M. Attia, and T. Meaz, Conduction Mechanism and Dielectric Properties of Li-Zn Ferrites" Egypt. J. Solids, Vol. (32), No. (2), (2009) 129.
7.	S. M. Attia, Study of Cation Distribution of Mn-Zn Ferrites" Egypt. J. Solids, 29(2) (2006).
8.	" The effect of interionic distances on the properties of Al-doped Mn-Zn ferrites" Eur. Phys. J. Appl. Phys. 35 (2006) 201 – 210.
9.	"Studies of AC electrical conductivity and initinal magnetic permeability of rare-earth substituted Li-Co Ferrites" J. Magn. Magn. Matter. 297 (2006) 33-34.
10.	"Spectral, initial magnetic permeability and transport studies of Li0.5-0.5xCoxFe2.5-0.5xO4 spinel ferrite" J. Magn. Magn. Matter., 295 (2005) 28-36.
11.	"AC conductivity and Dielectric behavior of CoFe2-XAlXO4", J. of Solid State Science,6 (2004) 61-69.
12.	Conduction Mechanism of Zinc- Magnesium W-type hexagonal Ferrites", J. Magn. Magn. Mater. 270 (2004)142-151
13.	Effect of Tetravalent Titanium Ions Substitution on the Dielectric Properties of C0-Zn Ferrites, J. Magn. Magn. Mater., 257(2003)296-305.
14.	"Dielectric Dispersion of Y-Type Hexaferrites at low frequencies" ", J. Magn. Magn. Mater., 257(2003)165-174.
15.	Review on sol-gel derived coatings: process, techniques and optical applications, J. Material Science and Technology, Vol. 18, No.3 (2002) 211-218
16.	"Nanostructured study of TiO2 Films prepared by dip coating process" J. Material Science and Technology, Vol. 18, No.1 (2002) 31-33.
17.	"Study of the influence of some physical parameters on sol-gel derived TiO2 thin films" SPIE 4086 (2001) 815.
18.	"Morphological effects on the electrical and electrochemical properties of carbon aerogels", J. Electrochemical Society, 148/6(2001)D75-D77.
19.	"Optical and elctrochemical Properties of sol-gel deposited tantalum pentoxide thin films, SPIE 4086(2001) 431.
20.	"Resorcinnol Fromaldehyde derived carbon aerogels films" SPIE 4086(2001)811.
21.	"The preparation and Optical properties of Island Silver Films Embedded in Silica" SPIE 4086(2001)372.
22.	" Electrical Transport Properties of carbon aerogels" J. Porous Materials 8(2001)167-170.
23.	"The Investigation of the Adsorption Character of Carbon Aerogels" NanoStructred Materilas, 11/3 (1999)375-381.
24.	"AC conductivity in Cu-Cr Ferrites", J. Magn. Magn. Mater. 146(1995)84-88.
25.	"Semiconductive properties of Cu-Cr Ferrites", J. Magn. Magn. Mater. 150(1995) 51-56.
26.	"Dielectric behavior of Cu-Cr Ferriets", J. Magn. Magn. Mater., 150(1995)399-402.

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*
The Egyptian Materials Research Society		
Egyptian Society of pure and applied Biophysics		
Supervision of Research Students:		

Student Name	*Degree*	*Title*	*Year*
Abd Elhakeem El-Hamadi	*PhD*	*Study of Some Physical Properties of Some Ferrite Systems*	*2004*
Abber Ramadan Abd-Elwahed	*MSc*	*Studies on some physical properties and positron annihilation spectroscopy of nano-structural materials*	*2009*
Mahmoud Mohamed Saad	*MSc*	*Transport Properties Study of Nano Porous Materials*	*2011*
Walid Ismaeel Abd-Elgawad	*MSc*	*Structure and Physical Properties Study of Nano Porous Materials*	*2011*
Eman Rashad Hassan	*MSc*	*Studying of Crystal Structures and Transport Properties of Some Magnetic materials*	*2009*
Meirall Abd Allah Ahmad	*MSc*	*Studying of Crystal Structures and Transport Properties of Some Magnetic Materials*	*2010*
Ali Mostafa Ali Elnishawy	*MSc*	*Study of Spectral and Physical Properties of Some Ferrites*	*2011*
Emad Rezk Elagwani	*MSc*	*Study of the Physical and Chemical Properties of Some Spinel Ferrites*	*2011*
Manal Khered	*MSc*	*Theoretical Spectral Studies for some Ionic Systems*	*Till now*

Teaching Experience
Electromagnetism I
Electromagnetism II
Advanced Optics
Quantum mechanics I
Quantum mechanics II
Solid State physics
Electricity and magnetism
Semiconductors
Electronic
AC circuits
General physics 101
Properties of matter

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Academic career

Degree	*Institution*	Country	*Year*
Ph.D.	Durham University	United Kingdom	2014
M.Sc.	King Abdulaziz University	Saudi Arabia	2008
B.Sc.	Umm Al-Qura University	Saudi Arabia	2000

Employment

Position	*Employer*	*Period*
Assistance Professor	Umm Al-Qura University	2015
Lecture	Umm Al-Qura University	2007 - 2009
Teacher	Education Ministry	2001 - 2007

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1.
2.
3.
4.
5.

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience
7 years (Education Ministry)
1 year (Umm Al-Qura University)

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Academic career

Degree	*Institution*	*Country*	*Year*
Professor	Umm Al-Qura University	Saudi Arabia	2011
Associated professor	Umm Al-Qura University	Saudi Arabia	2003
Ph.D.	University of Wales-Swansea	UK	1996
M.Sc.	University of Surrey	UK	1992
B.Sc.	Umm Al-Qura University	Saudi Arabia	1987

Employment

Position	*Employer*	*Period*
Dean of Faculty of science	Umm Al-Qura University	2013-till now
Dean of the postgraduate studies	Umm Al-Qura University	2008-2010
Vise Dean of hajj Institute	Umm Al-Qura University	2002-2003

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Sameer S. A. Natto, Evaluation of Automated Segmentation of Intracranial Radiosensitive Structures

in iPlan Image and its Effects on iPlan Dose, accepted in the Arabian Gulf Scientific Journal, 2009.

Sameer S. A. Natto, Electron Beam specifications for Cancer Treatment, accepted for publication in the Egyptian Journal of Bio-Physics, 2008

Sameer S. A. Natto, A comparative Study of Percentage Depth Doses for Two Medical Linear Accelerators, (2007), Umm Al-Qura University Journal of Science, Medicine, Engineering 19 (2), 145-151.

Sameer S. A. Natto, Variations of Radiological Properties of Body Structures and Interfaces, 2007, Umm Al-Qura University, Institute for Scientific Research, Applied Science Research Center,2007

Sameer S.A. Natto, Zainab El-Taher, Belal Moftah, Kay-Uwe Gardey and Noor M.H. Ghassal, (2006), Inhomogeneity Corrections for High Energy Photon Beams (Measurements and Calculations), International Journal of Scientific Research, 16, 177-180

Kay-Uwe Gardey, Belal A. Moftah and Sameer S. A. Natto, (2006), Evaluation of the Potential in Radiation Dose Reduction for Full-Field Digital Mamography, International Journal of Scientific Research, 16, 255-260.

Sameer S. A. Natto, Dose in the Buildup Region for a High-energy Medical Linear Accelerator ´-ray Photon Beam: (Measurements and Calculations), (2006), Umm Al-Qura University Journal of Science, Medicine, Engineering 18 (2), 31-4

F.H.H. Al-Ghorabie, S.S.A. Natto and S.H.A. Al-Lyhiani, Ultraviolet Radiation Monitoring in Makkah City, Saudi Arabia, using Thermoluminescence Material CaF_2:Tm, (2005), Isotope & Radiation Research, 37(3), 577-590

Sameer S. A. Natto, A Monte Carlo-based Model of a Medical Linear Accelerator X-ray Beam, Umm Al-Qura University, Institute for Scientific Research, Applied Science Research Center, 2003.

Sameer S. A. Natto, Performance characteristics of the Pantak Therapax-150 Superficial X-ray treatment machine: measurements and calculations, Australasian Physical & Engineering Sciences in Medicine, Australia, **25** (4), 162-167. 2002

Natto S. S. A. (2001) A Numerical Analysis Technique and an MCNP-based Models for Reconstruction of 4-MV Photon Spectra

F.H.H. Al-Ghorabie, S.S.A. Natto and S.H.A. Al-Lyhiani, A comparison between EGS4 and MCNP computer modeling of an *in vivo* X-ray fluorescence system, Computers in Biology and Medicine, (**31**) 73-83 (2001)

Natto S. S. A. (2001) Modeling of A system for Boron Neutron Capture Therapy, Umm Al-Qura University Journal of Science, Medicine, Engineering 13 (1), 18

Fayez H. Al-Ghorabiem Saud H. Al-Lyhiani and Sameer S. Natto, (2000) Theoretical Study of X-ray Beams Transmitted through Aerated Concrete used in Shieldings, Umm Al-Qura University Journal of Science, Medicine, Engineering 12 (1), 9-20

Fayez H. H. Al-Ghorabiem and Sameer S. A. Natto, A Theoretical Model of an X-ray Fluorescence System for Trace Elements Measurements, Umm Al-Qura University, Institute for Scientific Research, Applied Science Research Center, 1999.

Natto S. S. A., Lewis D. G. and Ryde S. J. S. (1998) Benchmarking the MCNP Code for Monte Carlo Modelling of an *In Vivo* Neutron Activation Analysis System *Appl. Radiat. Isot.* **49**, 545.

Lewis D. G., Natto S. S. A., Ryde S. J. S. and Evans C. J. (1997) Monte Carlo design study of a moderated ^{252}Cf source for *in vivo* neutron activation analysis of aluminium *Phys. Med. Biol.* **42**, 625

Natto S. S. A., Lewis D. G. and Ryde S. J. S. (1996) Benchmarking the MCNP Code for Monte Carlo Modelling of an *In Vivo* Neutron Activation Analysis System *Body composition Symposium*, Malmo, Sweden.

Natto S. S. A. (1996) Swansea experience with MCNP *Scope* **5** No. 1 26

Lewis D. G., Ryde S. J. S. and Natto S. S. A. (1995) Monte Carlo design study of a clinically-based system for thermal neutron activation analysis of bone aluminium *in vivo*: The Institute of Physics Annual Congress 27-30 March 1995, held at Telford International Center, Birmingham, Britain

Kutub A. A., Al-Ghorabie F. H., Natto S. S. A., Alsanoosi A. M., Babkair S. S. and Faidah A. S. (1992) Spectroscopic and DSC studies of vanadium-copper-phosphate glasses *J. Mater. Sci.***27**, 1343.

Kutub A. A., Al-Ghorabie F. H. and Natto S. S. A. (1991) Some optical and differential scanning calorimetry studies of sodium tetraborate glasses containing vanadium oxide J. Mater. Sci. 26, 4421

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Makkah Maternity and Children Hospital		Consultant	
Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*

Teaching Experience
Ultrasound in medecine
Nuclear physics
Medical Radiation Physics
Bio-mechanics
Medical physics
Computer in medical physics
General physics
Clinical physics
Radioisotopes in Medicine
Training course

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Wales University	UK	1998
M.Sc.	Surry University	UK	1993
B.Sc.	Umm Al-Qura University	Saudi Arabia	1987

Employment

Position	*Employer*	*Period*
Vice Dean of College of Applied Sciences	Umm Al-Qura University	2013-2015
Head of Physics Department	Umm Al-Qura University	2011-2013
Vice Dean of King Abdullah Library	Umm Al-Qura University	2009-2010

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Production of Nanostructure Materials used as Light Emitting Materials	2014-2015	290,000
Solar Electric Generator	2014	100,000

Industry or (hospital) collaborations over the last 5 years

Title	*Year*
King Feisal Specialist Hospital	2007
Armed Forced Hospital (Taif)	2009
King Abdul-Aziz Medical City (National Guard Hospital)	2011-2013

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Allehyani, S.H.; Taha, M.T.; and Bahashwan Y.M., *Study the Factors Affecting the Quality Assurance of Superficial Radiotherapy X-Ray Machine* International Journal of Science and Research (IJSR). ISSN (Online): 2319-7064, 2015.

2. Mouaaz Nahas, M. Sabry, Saud Al-Lehyani, *Feasibility Study of Solar Energy Steam Generator for Rural Electrification*, journal of Energy and Power Engineering, 7, 2015.
3. Mohamed Sabry, Mouaaz Nahas and Saud H. Al-Lehyani, *Simulation of a Standalone, Portable Steam Generator Driven by a Solar Concentrator*, journal of Energy and Power Engineering 3867-3881; doi:10.3390/en8053867, 2015.
4. Taha T.M, Allehyani S, Measurement of exposure Levels in Some Location of Umm AL-Qura University, *J.Nucl.Tech.Appl.Sci, Vol.1, No.1, pp. 1:6 201*3.
5. R. Seoudi, S. H. A. Allehyani, D. A. Said, A. R. Lashin and A. Abouelsayed, *Preparation, Characterization and Size Control of Chemically Synthesized CdS Nanoparticles Capped by Polyethylene Glycol* , JOURNAL OF ELECTRONIC MATERIALS, accepted 5-may-2015.
6. S. H. A. Allehyani[b], R. Seoudi[a,b], D. A. Said[b,c], A. R. Lashin[a,d], A. Abouelsayed[a], Synthesis, Characterization and Control in Size of ZnS Nanoparticles Capped by Polyethylene Glycol, Journal of *Electronic Materials, DOI*: 10.1007/s11664-015-3974-3_2015 The Minerals, Metals & Materials Society
7. H. A. Sharyan[1], *S. H. Allehyani[1] and A. R. Tolba[1, 2], Dosimetric comparison of 3DCRT versus RapidArc in terms of iso-dose distribution, dose volume histogram (DVH) and dosimetric results for the PTV and critical organs for glioblastoma (GBM), American Journal of Medicine and Medical Sciences 2015, 5(5): 208-219 DOI: 10.5923/j.ajmms.20150505.04
8. Fundamentals of Treatment planning Procedures Book by Allehyani Saud H, 2005
دار الثقافة والنشر بمكة المكرمة الطبعة الأولى (كتاب الأسس العلمية في التخطيط العلاجي2005
9. Electronics Methods and Procedures book by Allehyani Saud H and Saber R, 2013
دار الثقافة والنشر بمكة المكرمة الطبعة الأولى (كتاب الإلكترونيات طريقة العمل والاستخدام2011)
10. Prepared No. of Electronics Books (see Arab4 physics web link). see the link
http://www.phys4arab.net/vb/showthread.php?t=14890
11. Prepared Physics teaching on line and Academic Accreditation see the link
www.physics-dept.com

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Training Office of College Science	Manager	
Academic Accreditation Committee	Member	2012
Medical Physics Students	Supervise	2009-2015
Electronic Education Committee	Member	2007

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
H. A. Sharyan	M.Sc.	Dosimetric comparison of 3DCRT versus RapidArc in terms of Iso-dose distribution, dose volume histogram (DVH) and dosimetric results for the PTV and critical organs for glioblastoma (GBM)	2015
Abeer Ahmad Alharbi	M.Sc.	Preparation, Characterization and Biomedical Application Studies of Some Magnetic Nanomaterials	2015

Teaching Experience

Nuclear Medicine Course
Radiotherapy Course
Medical Imaging Course
Computing in Physics Course
Radiation Physic Course

Taha Mohamed Taha

Associated Professor
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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	El-Minia University	Egypt	2005
M.Sc.	Cairo University	Egypt	1995
B.Sc.	Cairo University	Egypt	1990

Employment

Position	*Employer*	*Period*
Lecturer	Head of Whole body counter unit	2005 - Now
Assistant Lecturer	Assistant Lecturer	1995-2005
Assistant Lecturer	Assistant Lecturer	1990-1995

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
New techniques for assessment of eye lens doses to Staff members.	1 year	285,000 SR

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1- T.M.Taha, S.Alllehyani and Y.M.Bahashwan" Study the Quality Assurance of Superficial X-ray Machines Using some Techniques ,IJSR, 2015

2- Taha.M.T., F.H.Alghorabie.,Kutbi.R.A., Waleed.K.S. Assessment of the entrance skin dose for patients undergoing X-ray Examinations in King Abdullah Medical City, Makkah, KSA, JRRAS 8, 100-103, 2014

3- T.M.Taha " Measurement of Exposure Levels in Some Locations of Umm Al-Qura University", (JRRAS, 2013)

4- T.M.Taha " A Computer program development for Entrance Skin Dose Calculation during Conventional x-ray imaging", Science Direct , (JRRAS, 2013)

5- T.M.Taha " Quality Assurance of conventional x-ray machine" 10th International Radiation Physics and applications Conference, Cairo-AEA., 2011

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Rana Ali Kutbi	M.Sc.	Assessment of Entrance Skin Dose for patients undergoing diagnostic X-ray Examinations	2

Teaching Experience

Teaching in training program of atomic energy agency

Teachinin Alazhar and Alfaoom universities.

Teaching in medical program of physics department of umm alqura university

Thamer Salman Alomayri

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Curtin University	Australia	2015
M.Sc.	The University of New South Wales	Australia	2010
B.Sc.	University College	Saudi Arabia	2006

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2015-Now
Teacher	Umm Al-Qura University	2006-2015

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Assaedi1, H., **Alomayri, T.,** Shaikh, F.U.A., & Low, I.M (2015). Characterization of thermal and mechanical properties in flax fabric-reinforced geopolymer composites. Journal of Advanced Ceramics, In press.

2. **Alomayri, T.,** Vickers, L., Shaikh, F. A., & Low, I.-M. (2014). Mechanical properties of cotton fabric reinforced geopolymer composites at 200–1000 °C. Journal of Advanced Ceramics, 3(3), 184-193.
3. **Alomayri, T.,** Assaedi, H., Shaikh, F. U. A., & Low, I. M. (2014). Effect of water absorption on the mechanical properties of cotton fabric-reinforced geopolymer composites. Journal of Asian Ceramic Societies, 2(3), 223-230.
4. **Alomayri, T.,** Shaikh, F. U. A., & Low, I. M. (2014). Mechanical and thermal properties of ambient cured cotton fabric-reinforced fly ash-based geopolymer composites. Ceramics International, 40(9, Part A), 14019-14028.
5. **Alomayri, T.,** Shaikh, F. U. A., & Low, I. M. (2014). Effect of fabric orientation on mechanical properties of cotton fabric reinforced geopolymer composites. Materials & Design, 57(0), 360-365.
6. **Alomayri, T.,** Shaikh, F. U. A., & Low, I. M. (2014). Synthesis and mechanical properties of cotton fabric reinforced geopolymer composites. Composites Part B: Engineering, 60(0), 36-42.
7. **Alomayri, T.,** & Low, I. M. (2013). Synthesis and characterization of mechanical properties in cotton fiber-reinforced geopolymer composites. Journal of Asian Ceramic Societies, 1(1), 30-34.
8. **Alomayri, T.,** Shaikh, F. U. A., & Low, I. M. (2013). Characterization of cotton fibre-reinforced geopolymer composites. Composites Part B: Engineering, 50(0), 1-6.
9. **Alomayri, T.,** Shaikh, F. U. A., & Low, I. M. (2013). Thermal and mechanical properties of cotton fabric-reinforced geopolymer composites. Journal of Materials Science, 48(19), 6746-6752

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

Walid Belhadj

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	University of Tunis Al-Manar	Tunisia	December 2006
M.Sc.	University of Tunis Al-Manar	Tunisia	October 2001
B.Sc.	Carthage University	Tunisia	June 1998

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	Sep. 2012 - until Now
Assistant Professor	Carthage University	Dec. 2006 – Sep. 2012

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. F. U. Y. Al-sheqefi and W. Belhadj, “Photonic band gap characteristics of one-dimensional graphene-dielectric periodic structures”, Super lattices and Microstructures, Article in press, 2015

2. N. Saïdani, **W. Belhadj**, and F.AbdelMalek, "Novel design of all-optical logic gates based photonic crystal waveguide using self-imaging phenomena", Opt. Quant. Electron. 47:1829–1846 (2015)
3. N. Saïdani, **W. Belhadj**, F.AbdelMalek, and H.Bouchriha, "Detailed investigation of self-imaging in multimode photonic crystal waveguides for applications in power and polarization beam splitters", Optics Communications, Vol. 285(16), (2012), pp. 3487–3492
4. D. Khadri, **W. Belhadj**, D. Gamra, F.AbdelMalek, and H.Bouchriha, "On the Validity of the Effective Index Method for Long Period Grating Photonic Crystal Fibers", Materials Sciences and Applications, Vol.3 No.5, (2012)

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	*Degree*	*Title*	*Year*
Hanan Ahmad Moaidh Al-Zahrani	Master	Study and Modeling of Nonlinear Optical Phenomena in photonic crystals	2015
Fatimah Uthmann Yahya Al-Sheqefi	Master	Numerical studies of the optical properties of graphene based nanostructures	2014
Mohamad Rebaï	Master	Numerical and analytical modeling of hollow core photonic crystal Fibers.	2012
Mohamed Herira	Master	Physical origin of Photon *confinement* in *photonic* crystal *Nanocavities*.	2012
Sarra Aloui	Master	Modeling of tunable photonic crystals with anisotropic components.	2011
Mourad Aydi	Master	Design of resonant add-drop filter in a two dimensional photonic Crystal.	2010

Teaching Experience
Theoretical Method for Physics (1, 2 & 3)
Thermodynamics
Statistical Thermodynamics
Advanced Classical Physics
Electromagnetism (1 & 2)
Nuclear Technology
Optics & Photonics
Numerical methods in Electromagnetism

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Odessa State University	Ukraine	1991
M.Sc.	Mansoura University	Egypt	1982
B.Sc.	Mansoura University	Egypt	1975

Employment

Position	*Employer*	*Period*
Professor	Umm Al-Qura University	2011 - till Now
Professor	7th April University, Libya	2003 - 2011
Professor	Mansoura University	2002 - 2003
Associate Professor	Mansoura University	1996 - 2002
Lecturer	Mansoura University	1991 - 1996
Assistance Lecturer	Mansoura University	1982 - 1991
Demonstrator	Mansoura University	1976 -1982

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Solid State Physics, Part I, first edition, Y.M. Moustafa, Aldar Academy for printing and writing,

translation and publishing, Academy of Graduate Studies, Tripoli, 2007, 430 pages, in Arabic Language.

2. Electronic Devices, Floyed, translated into Arabic by Yosry Moustafa and Gamal Elsagher , 7th April University Publishing center, El Zawia, Lybia, 2011
3. Described Glossary of physics, Part I: electronic, Y.M. Moustafa, 405 pages, 7th April University Publishing center, El Zawia, Lybia, 2011, , in Arabic Language.
4. Acoustics, authored Liu L. Baranic, translated into Arabic Language Y.M. Moustafa and Mohammed Altohamy, 7th April University Publishing center, El Zawia, Lybia, in press
5. Encyclopedia of Physics and Astronomy, authored Y.M. Moustafa and Afaf Ali, 527 page, under Publication, in Arabic Language.
6. Physical effects and phenomena, Y.M. Moustafa, Saud Allahyani and Afaf Ali, 423 pages, under Publication,1437, in Arabic Language.
7. Solid State Physics and its Applications, Yosry Moustafa & Ahmad Al-Ghamdy, KAU, Jeddah, 2015, 766 pages, in Arabic Language.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Um Al-Qura University Journal of Applied Sciences	Co-Editor	2014-2015

In addition to reviewing many Ph.D. and M.Sc. theses and books and evaluating some research works for promotion to the rank of Full Professor, associated professor in Saudian, Indian, and Egyptian Universities.

Supervision of Research Students:

Student Name	Degree	Title	Year
Y. Abd Almaksoud	M.Sc.		2008
S. Abbas	M.Sc.		2007
R. Ramadan	M.Sc.		2005
E. Mansour	Ph.D.		2000
E. Mansour	M.Sc.		1995

Teaching Experience

Teaching Courses including: Mechanics, Electricity and Magnetism, Properties of Matter, Heat and Thermodynamics, General Physics, Alternating Current & electric circuits, Elementary Physics, Solid State Physics I, Solid State Physics II, Electronics, Semiconductors, Non-crystalline Solids, and Advanced Materials and الفيزياء العامة للمعاقين.

Afaf Maweed Ali

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Mansoura University	Egypt	2009
M.Sc.	Mansoura University	Egypt	2003
B.Sc.	Mansoura University	Egypt	1999

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2011 till Now
Assistant professor	Mansoura University	2009 till Now
Lecture of physics	Mansoura University	2003-2008
Demonstrator	Mansoura University	2000-2003

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Improve the Conversion Efficiency of Organic Semiconductor Solar Cell	2014-2016	215,111
On the optical and structural properties of bio-polymeric fibers	2015	187,000
Determination the 3D Optomechanical and geometrical profiles of iPP fiber with necking deformation	2015	151,300

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

T.Z.N. Sokkar , M.A. El-Bakary and A.M. Ali , “The influence of mechanical cold drawing and drawing veloci-

ty on the molecular structure of isotactic polypropylene fiber Phenomena", Journal of applied polymer science, 127 2 (2013) 1105-1113.

A.A.Hamza, T.Z.N.Sokkar, M.A.Elmorsy, A.M.Ali and M.I. Raslan , "3D Refractive Index Profile for the Characterization of Necking Phenomenon along stretched Polypropylene Fibres", Optics Communications., 283(2010)1684

A.A.Hamza, T.Z.N.Sokkar, M.A.El-Bakary, and A.M.Ali, " On line Interferometric Investigation of the neck propagation phenomena of stretched Polypropylene fibre", Optics and Laser Technology 5 (42)(2010) 703.

T Z N Sokkar, M M El-Tonsy, M A El-Morsy and A.M.Ali "Online opto-thermomechanical studies of isotactic Polypropylene fibres using modified multi-mode opto-thermo-mechanical stretching device, Polymer international, submitted for publication

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Abdel Aziz Ftoah	M.Sc.	Short heat treatment of PE fibers	2013

Teaching Experience

7 years

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Homepage:

Academic career

Degree	*Institution*	Country	*Year*
Ph.D.	University of Surrey	UK	2014
M.Sc.	University of Surrey	UK	2010
B.Sc.	Umm AL-Qura University	Saudi Arabia	2005

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm AL-Qura University	2014
TA		

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. A.T. Abdul Rahman, R.P.Hugtenburg, Siti Fairus Abdul Sani, A.I.M. Alalawi, Fatma Issa, R. Thomas, M.A.Barry, A.Nisbet and D.A.Bradley. An investigation of thethermoluminescence of Ge-doped SiO2 optical fibres for application in interface radiation dosimetry. Applied Radiation and Isotopes (2011), doi:10.1016/j.apradiso.2011.11.030.

2. D.A. Bradley, R.P.Hugtenburg, A.Nisbet, Ahmad Taufek Abdul Rahman, Fatma Issa, Noramaliza Mohd Noor, Amani Alalawi. Review of doped silica glass optical fibre: Their TL properties and potential applications in radiation therapy dosimetry. Applied Radiation and Isotopes (2012), doi:10.1016/j.apradiso.2012.02.001.
3. Amani I. Alalawi, R.P. Hugtenburg, M.A.Barry, A.Nisbet, A.T. Abdul Rahman, Khalid S. Alzimami D.A.Bradley. Measurement of Dose Enhancement Close to High Atomic Number Media using Optical Fibre Thermoluminescence Dosimeters. Radiation Physics and Chemistry (2014) doi.org/10.1016/j.radphyschem.2013.05.017
4. Amani Ibrahim Alalawi; Shakardokht M Jafari ; Maan A Najem; Wafa Alsaleh; Catharine H Clark; Andrew Nisbet; Fouad A Abolaban; Richard P Hugtenburg; Mohammad Hussein; Khalid S Alzimami; David A Bradley; Nicholas Spyrou. Preliminary investigations of two types of silica-based dosimeter for small-field radiotherapy. Radiation Physics and Chemistry (2014), doi:10.1016/j.radphyschem.2014.05.004
5. Jafari, Shakardokht; Alalawi, Amani; Hussein, Mohammad; Alsaleh, Wafa; Najem, Maan; Bradley, David; Spyrou, Nicholas; Clark, Catharine; Nisbet, Andrew. Glass beads and Ge-doped optical fibres as thermoluminescence dosimeters for small field photon dosimetry. Physics in Medicine and Biology (2014), doi:10.1088/0031-9155/59/22/6875.
6. S.M. Jafari, D.A. Bradley, C.A. Gouldstone, P.H.G. Sharpe, A. Alalawi, T.J. Jordan, C.H. Clark, A. Nisbet, N.M. Spyrou. Low-cost commercial glass beads as dosimeters in radiotherapy. Radiation Physics and Chemistry. doi.org/10.1016/j.radphyschem.2013.11.007
7. D.A. Bradley, Siti F. Abdul Sani, Amani I. Alalawi, S.M. Jafari, Noramaliza M. Noore, A.R. Hairul Azharf, Ghafour Amouzad Mahdiraji, Nizam Tamchekh, S. Ghoshi, M.C. Paul, Khalid S. Alzimami, A. Nisbet, k, M.J. Maah. Development of tailor-made silica fibres for TL dosimetry. Radiation physics and chemistry. doi.org/10.1016/j.radphyschem.2014.03.042
8. Siti.F. Abdul Sani, Amani I. Alalawi, Hairul Azhar A.Rc, Ghafour Amouzad Mahdiraji, Nizam Tamchek, A. Nisbet, M.J. Maah, D.A. Bradley. High sensitivity flat SiO2 fibres for medical dosimetry. Radiation Physics and Chemistry. 2014. doi.org/10.1016/j.radphyschem.2014.03.043

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

Ameenah N. Al-Ahmadi

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Ohio University	USA	
M.Sc.	Ohio University	USA	
B.Sc.	Umm Al-Qura university	Saudi Arabia	

Employment

Position	*Employer*	*Period*
Vice-Dean of Applied science College for, the Academic Development and Community Service		
Vice-chemrman of physics department		

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*
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Patents and proprietary rights

Title	*Year*
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Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

[1] *Coherent state monitoring in quantum dots*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa, Phys. Rev. B 70 (2004) 201302(R), also selected by Virtual Journal of Nanoscale Science & Technology, 13 (2004) 5.

[2] *Dynamics of quantum dot clusters and state monitoring*, AIP Conference Proceedings 772 (2005) 761.

[3] *Dynamics of Energy Transfer in Quantum Dot Arrays*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa, contributed talk given by Prof. Ulloa at APS March meeting 2004 (March 22-26, 2004 in Montreal, Quebec,

Canada)
[4] *Polarization and Pumping Intensity Effects on the Energy Transfer Rate in Quantum Dots*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa, contributed talk given at APS March meeting 2005 (March 21-25, 2005 in Los Angeles, California).
[5] *Polarization and orientation effects and coherent energy transfer in nanocrystals*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa, invited talk at Excited States Processes in Electronic and Bio Nanomaterials Conference (in Santa Fe, NM, August 8-11, 2005).
[6] *Extended coherent exciton states in quantum dot arrays*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa, Appl. Phys. Lett. 88 (2006) 043110, also
selected by Virtual Journal of Nanoscale Science & Technology, 10 (2006) 20, also featured for immediate release on Ohio University research news web page and picked up by UPI on February 21st, 2006.
[7] *Polarization and Orientation Effects on Coherent Energy Transfer in Semiconductor Nanocrystals*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa, contributed talk given at APS March meeting 2006 (March 13-17, 2006 in Baltimore, Maryland).
[8] *Polarization and orientation effects on coherent energy transfer in semi-conductor nanocrystals*, Ameenah N. Al-Ahmadi and Sergio E. Ulloa (to be submitted).
[9] *Coherent coupling and energy transfer enhancement via multi-exciton levels in semiconductor nanocrystals,* Ameenah N. Al-Ahmadi and Sergio E. Ulloa, contributed talk given at APS March meeting 2008 (March 10-14, 2008 in New Orleans, Louisiana).
[10] *Coherent manipulation of Excitons in a Pair of Quantum Dots Coupled by the Dipole-Dipole Interaction,* Ameenah N. Al-Ahmadi**,** the 5th International Conference on Semiconductor Quantum Dots (QD2008) in Gyeongju**,** Korea, from May 11th to 16th, 2008, Conference Proceedings (to be published).
[11] *Signatures of energy transfer and multi-exciton states on Exciton Rabi oscillation in semiconductor nanocrystals***,** Ameenah N. Al-Ahmadi**,** International Conference on Nanotechnology Opportunities and Challenges, KSA, Jeddah, King Abdul Aziz University, from June 17th to 19th, 2008, Conference Proceedings in the International Journal of Nanoparticles (accepted for publication)..
[12] *Effect of FÖrster Interaction on the Rabi Oscillations of multiexciton in double quantum dot*, Ameenah N. Al-Ahmadi, at Seeing at the Nanoscale VI Conference, Berlin, Germany (2008).
[13] *1D exciton fine structure in Single Walled carbon nanotubes,* Ameenah N. Al-Ahmadi, at Nanotech Europe 2009, Berlin, Germany.

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*
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Teaching Experience
Nantotechnolgoy
Optical properties of semiconductor nanoscale
Solid state physics
Quantum mechnics
Computational physics
Mathematical physics

Doaa Abdallah Mahmoud

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Academic career

Degree	*Institution*	*country*	*Year*
Ph.D.	Ain Shams University	Egypt	2008
M.Sc.	Ain Shams University	Egypt	2003
B.Sc.	Ain Shams University	Egypt	1997

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2010-to Now
Lecturer	Ain Shams University	2008-2010
Assistant Lecturer	Ain Shams University	2003-2008
Demonstrator	Ain Shams University	1997-2003

Research and development projects over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. R. SEOUDI, S.H.A. ALLEHYANI, **D.A. SAID**, A.R. LASHIN, and A. ABOUELSAYED," Preparation, Characterization, and Size Control of Chemically Synthesized CdS Nanoparticles Capped with Poly (ethylene glycol)", Journal of ELECTRONIC MATERIALS, Vol. 44, No. 10, 2015, 3367-3374
2. S.H.A. ALLEHYANI, R. SEOUDI, **D.A. SAID**, A.R. LASHIN, and A. ABOUELSAYED, "Synthesis, Characterization, and Size Control of Zinc Sulfide Nanoparticles Capped by Poly (ethylene glycol)", Journal of ELECTRONIC MATERIALS, Vol. 44, No. 11, 2015, 4227-4235
3. R. Seoudi, M. G. Khafagi, A. R. Lashin, **D. A. Said**, M. Boustimi "Spectroscopic and Optical Properties Studies of Phthalocyanines and its Metal Complexes Thin Films Prepared by Laser Deposition Techniques" The 5th National Conference on Optical Spectroscopy, Laser and Their Applications, National Research Center, Cairo, Egypt, 24 - 27 March 2014

4. Samir Y. Marzouk , Roshdi Seoudi , **Doaa A. Said** , Mai S. Mabrouk, " Linear and non-linear optics and FTIR characteristics of borosilicate glasses doped with gadolinium ions", Optical Materials 35 (2013) 2077–2084
5. R Seoudi and **Doaa A. Said** "Studies on the Effect of the Capping Materials on the Spherical Gold Nanoparticles Catalytic Activity" World Journal of Nano Science and Engineering, 1(2011) 51-61

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*
Umm Al-Qura University, Physics Department, Quality Committee	Member	1434-1436

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*

Teaching Experience

5 years

Fatma El-Sayed

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Tanta University	Egypt	2011
M.Sc.	Tanta University	Egypt	2007
B.Sc.	Tanta University	Egypt	2004
B.Sc. &Ed	Tanta University	Egypt	2001

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University, KSA	2013 - till Now
Assistant Professor	Kafrelsheikh University, Egypt	2011 - 2013
Lecturer	Kafrelsheikh University, Egypt	2007 - 2011
Demonstrator	Tanta University, Egypt	2002 - 2007

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. **Fatma El-Sayed**, and S. M. Attia, “Energies, Wavelengths, and Transition Rates for Ga-Like Ions (Nd XXX- Tb XXXV)”, Journal of Applied Spectroscopy (2016).
2. **Fatma El-Sayed**, Manal Khered, and S. M. Attia,” Energies and Transition Rates for Be-Like Ions (Xe LI - Ce LV)”, European Physical Journal Plus 130: 104 (2015).
3. **Fatma El-Sayed**, “Energy Levels and Transition Rates for Ga-Like Ions (Xe XXIV-Pr XXIX)”, Journal of Applied Spectroscopy 82 (3) (2015) 487-493.

4. **Fatma El-Sayed**, "Energy Levels, Lifetimes, and Transition Probabilities for Mn XII and Ge XIX", Atomic Data and Nuclear Data Tables 100 (2014) 1250-1276.
5. **Fatma El-Sayed**, "Energies, Wavelengths, and Multipole Transition Probabilities for B-like Fe, and Ga ions", Atomic Data and Nuclear Data Tables 99 (2013) 545-579.
6. **Fatma El-Sayed**, "Energy Levels and Radiative Rates for Transitions in Ga XXIV", Atomic Data and Nuclear Data Tables 98 (2012) 720-778.
7. **Fatma El-Sayed**, "Energies, Wavelengths and Transition Probabilities for Ge-like Kr, Mo, Sn, and Xe ions", Atomic Data and Nuclear Data Tables 98 (2012) 373-390.
8. O. Nagy, and **Fatma El-Sayed**, "Energy Levels and Radiative Rates for Transitions in Ga XXVI", Egyptian Journal of Physics (2012).
9. O. Nagy, and **Fatma El-Sayed**, "Energies, Wavelengths and Transition Probabilities in heavy Ge-like Pd, Ag, Cd, and In ions", Egyptian Journal of Physics (2012).
10. O. Nagy, and **Fatma El-Sayed**, "Relativistic Atomic Data for Lines in Ge-Like Sm and Eu Ions", Journal of Physics: Conference Series 388 (2011) 152001.
11. O. Nagy, and **Fatma El-Sayed**, "Energies and Radiative Rates in heavy Ge-like I, Cs, Ba, and Ta ions", Egyptian Journal of Physics 42 (2011) 63-73.
12. O. Nagy, and **Fatma El-Sayed**, "Energies, Radiative Rates, and Electron-Impact Excitations for Ru XIII, Rh XIV, Sb XX, and Te XXI", Egyptian Journal of Physics 42 (2011) 35-62.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Manal Hosain Omar Khered	M.Sc.	Theoretical Spectral Studies for some Ionic Systems	

Teaching Experience

1. Mathematical Physics I
2. Mathematical Physics II
3. Quantum Mechanics I
4. Quantum Mechanics II
5. Classical Mechanics I
6. Atomic Physics
7. Computational Physics

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Academic career

Degree	*Institution*	Country	*Year*
Ph.D.	Cairo University	Egypt	2004
M.Sc.	El-Azhar University	Egypt	1987
B.Sc.	El-Azhar University	Egypt	1979

Employment

Position	*Employer*	*Period*
A full time demonstrator in the radio-therapy & Nuclear Medicine Depart-ment National Cancer Institute-Cairo University	Demonstrator, Assistant Lecturer and Lecturer in radiotherapy department	1980-Now
Misr International Hospital-Cairo as a Part time consultant of Medical Physics	Assistant Lecturer and Lecturer in radiotherapy department	2001-2009
As-Salam International Hospital-Cairo as a Part time consultant of Medical Phys-ics	Assistant Lecturer and Lecturer in radiotherapy department	2001-2009

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume,

issue, page numbers

1-Evaluation of the systematic set-up errors using electronic portal image Device in the radiotherapy procedures, Chinese-German J Clin Oncol September 2013, Vol. 12, No. 9, P439–P442
2- Locoregional recurrence of triple-negative breast cancer: effect of Type of surgery and adjuvant postoperative radiotherapy, Breast Cancer: Targets and Therapy, 2014:6 151–158.
3-Low Dose Total Body Irradiation for Relapsed Low Grade Non- Hodgkin's Lymphoma: Experience of National Cancer Institute, Cairo Journal of Cancer Therapy, 2015, 6, 25-33

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Huda Abdulwahab Sharyan	M.Sc.	Dosimetric comparison between Three Dimensional Conformal Radiation Therapy (3DCRT) and Dynamic RapidArc Therapy for different type of malignant tumors.	2

Teaching Experience

Teaching of medical radiation physics course to medical physicists in Radiotherapy Department, National Cancer Institute, Cairo University

Teaching in medical program of physics department of Umm Al-Qura university

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Academic career

Degree	*Institution*	Country	*Year*
Ph.D.	Cairo University	Egypt	2006
M.Sc.	Cairo University	Egypt	1999
B.Sc.	Cairo University	Egypt	1993

Employment

Position	*Employer*	*Period*
Associated Professor	Umm Al-Qura University	2011 – Now
Lecturer	Cairo University	2007-2011
Assistant lecturer	Cairo University	2000-2006
Demonstrator	Cairo University	1994 – 1999

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
New normal values not related to age and sex, of glomerular filtration rate by ^{99m}Tc-DTPA renal dynamic imaging, for the evaluation of living kidney graft donors	2015 – Now	100,000 E.P.
Evaluation of Radioactivity Concentration in Talipia Nilotica and radiation dose to Egyptian Population	2010 – 2011	30,000 E.P.

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Ghada M. Nabil, A.M.M. Attia, Hanan H. Amer and M.A. Elhag. Effects of Chromium Picolinate on Some Hemoglobin Properties and (Metabolic) Functions in Healthy Rats, World Appl. Sci. J., IDOSI publications, 2010; 9(4):351.
2. Hanan H. Amer, Mohamed S. Nagdy, and Hossam M. Yassin. Quantitative Assessment of Renal Function with ^{99m}Tc-MDP in comparison with ^{99m}Tc-DTPA, Isotope and Radiat. Res., Egypt, 2011; 43(1): 285.
3. Hanan H. Amer, Enas M. ElKhawas, and Ghada M. Nabil. Evaluation of Radioactivity Concentration in Talipia Nilotica and radiation dose to Egyptian Population, Isotope and Radiat. Res., Egypt,2012; 45(1): 295.
4. Hanan H. Amer and Suha A. Khan. Surface Dose Assessment for Different Clinical Setup Parameters from High Energy Photon Beams, 2015, 1st international conference in Physics and its applications, Egypt, Poster, in press.
5. Hanan H. Amer and Badriah M. AlGahdaly. Assessment of Committed Effective Dose of Natural Radioactivity from Bottled Drinking Water in Makkah, J. of Appl. Sci, submitted.

Activities in specialist bodies over the last 5 years

Organization	*Role*	*Period*

Supervision of Research Students:

Student Name	*Degree*	*Title*	*Year*
Soha A. Khan	M.Sc.	Surface Dose Assessment for Different Clinical Setup Parameters from High Energy Photon Beams	2013 - 2015
Mona Elhossainy	M.Sc.	Improvement of the Biodegradability of Chitosan Films Used in Wound Healing by Gamma-Irradiation	2010 - 2012
Hossam M. Yassin	M.Sc.	Quantitative Role of ^{99m}Tc-MDP in Comparison with ^{99m}Tc-DTPA as renal function predictor	2009 – 2011
Maha A. Reda	M.Sc.	Determination of the radioactivity in biological samples using track detector	2009 - 2011

Teaching Experience

15 Years

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	Al-Farabi Kazakh National University	Kazakhstan	02.2012
M.Sc.	Beni-Suef University	Egypt	01.2007
B.Sc.	Cairo University	Egypt	06.2000

Employment

Position	*Employer*	*Period*
Lecturer	Beni-Suef University	2012
Assistant Lecturer	Beni-Suef University	2007
Demonstrator	Cairo University –Beni-Suef branch	2002-2006

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*

Industry collaborations over the last 5 years

Title	*Year*

Patents and proprietary rights

Title	*Year*

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. **Tuleukhanov, S.T., Desoukey, O.S., Mohaseb, M.A.** The influence of infrasound on the immunological properties of rat's blood // Biophysical Romanian Journal. -**Bucharest, Romania,** 2010.- Vol.20, № 3.- P. 245-255.

2. **Tuleukhanov, S.T., Desoukey, O.S., Mohaseb, M.A.** Change in the permeability of erythrocytes membrane under the effect of infrasound // Collection of Scientific works, Nauka i studia. - **Przemysl, Poland**,

2010. – Vol.30, N. 6. - P.127- 134.

3. **Tuleukhanov, S.T., Desoukey, O.S., Mohaseb, M.A.** Effect of infrasound on blood cells // Collection of Scientific works, Nauka i studia. - **Przemysl, Poland**, 2010. - Vol. 30, N. 6. – P. 104- 115.

4. **Mohaseb, M.A.** Immunobiological activity under the action of infrasonic waves // international congress of young scientists and students «World of Science», **Almaty, Kazakhstan**, 2010. – P.46-47.

5. **Mohaseb, M.A.** Impact of infrasonic waves on the red blood cells // international congress of young scientists and students «World of Science», **Almaty, Kazakhstan**, 2010. – P.48-49.

6. **Tuleukhanov, S.T., Desoukey, O.S., Mona, M.A.** Infrasound hazard on the immune system // materials of international scientific-practical conference “Modern Issues of Ecology and Sustainable Development of Society”, **Almaty, Kazakhstan**, 2010. – P. 309-311.

7. **Tuleukhanov, S.T., Desoukey, O.S., Mona, M.A.** Infrasound hazard on the permeability on the membrane // Vestnik KazNU. Almaty, Kazakhstan, 2010. - Vol.45, N.3. - P. 209-211.

8. **Mohaseb, M.A., Desouky,O.S., Tuleukhanov, S.T.** Electrical conductivity of rat’s blood under the direct and indirect effect of infrasonic waves // American Index of Central Asian Scholarship(AICAS). - **Wyoming, USA**, 2010 -Vol.1, N.2 (11). - P. 41-46.

9. **Mohaseb, M., Desouky, O., Tuleukhanov, S.** Biomechanical and bioelectrical properties of rat’s blood under the effect of infrasound at different durations of time // materials of international scientific-practical conference "Biotechnology, nanotechnology and Physical-Chemical Biology” Almaty**, Kazakhstan**, 2011.- Vol.48, N.3.- P.94-98.

10. **Tuleukanov, S.T., Mohaseb, M.A., Desouky,O.M.** Study the biological effect of infrasound treated water on the erythrocyte membrane permeability // International journal of Biology and Chemistry. **Almaty-Kazakhstan.** , 2011. - №.1. - P.45-51**.**

11. Mohaseb, M.A, Tuleukanov, S.T., Infrasoni waves and its effects//Publishing house “Kazakh universiteti ” Al-Farabi Kazakh National University, Almaty-Kazakhstan, 2011.- №.P83.in press.

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*

Supervision of Research Students:			
Student Name	Degree	Title	Year

Teaching Experience
Quantum mechanics (1)
Classical mechanics (1)
Statistical thermodynamic
Heat and thermodynamic
Mathematical methods for physics
Optics
General Biophysics
Electromagnetic (1)
Radioisotopes in medicine
Laser in Medicine

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Academic career

Degree	*Institution*	*Country*	*Year*
Ph.D.	King Saud university	Saudi Arabia	2014
M.Sc.	Umm Al-Qura university	Saudi Arabia	2007
B.Sc.	Umm Al-Qura university	Saudi Arabia	1999

Employment

Position	*Employer*	*Period*
Assistant Professor	Umm Al-Qura University	2014-Now
Demonstrator	Umm Al-Qura University	2003-2014

Research and development projects over the last 5 years

Project Name	*Period*	*Amount of financing*
Comparisons of intra-nuclear cascade models in Geant4	2010-2012	550,000 SR

Industry collaborations over the last 5 years

Title	*Year*
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Patents and proprietary rights

Title	*Year*
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Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

1. Lightening-like interactions in nuclear collisions at CERN large hadron collider, Proceedings of Science (EPS-HEP2015) 190 (2015).
2. Iinterpretation of charged-particle spectra in p+p and p+Pb collisions at energies available at the CERN large hadron collider... Physical Review C 91, 034908 (2015).
3. Atomic mirror for Λ–type three-level atom. Journal of physics B: At. Mol. Opt. Phys. **47** 185005 (2014).
4. How to create an interface between UrQMD and Geant 4. arXiv e-print:1203.3877 (2012).
5. Geant4 hadronic cascade models analysis of proton and... Physical Review C **84**, 014905 (2011).
6. Isospin effects in a covariant transport approach to spallation… Physical Review C **81**, 014605 (2010).

7. Enabling comparison of UrQMD with Geant4 hadronic cascade models. CERN-LCGAPP-2010-04 (2010)

Activities in specialist bodies over the last 5 years		
Organization	*Role*	*Period*
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Teaching Experience		
One year		

Apindex III
Technician Staff

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Academic career

Degree	*Institution*	Country	*Year*
B.Sc. Medical Physics	Umm Al-Qura University	Saudi Arabia	2009

Employment

Position	*Employer*	*Period*
Researcher	Umm Al-Qura University	2015-Now
Assistant Researcher	Umm Al-Qura University	2011-2015
Lab Technician	Umm Al-Qura University	2009-2011

Training Activities

Name	*Period*	*Year*
English Diploma	1 Year	2014
RapidArc Workshop	10 hours	2014
Healthcare IT and PACS	20 hours	2008
Programming By C++	30 hours	2006
Microsoft Certified Systems Administrator (MCSA)	35 hours	2003

Important publications over the last 5 years

Author(s), Title, Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers

- Allehyani S. H., Taha M.T. and Bahashwan Y. M, *Study the Factors Affecting the Quality Assurance of Superficial Radiotherapy X-Ray Machine*, International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064.
- W. J. Altaf, Taha M Taha, R. A. Hassan and Yaser M Bahashwan, *Dose Assessment for Eye Lens for Medical Staff Members*, in progress.
- R.A. Hassan, Yaser M Bahashwan and A Abdelmohimen, *Assessment of left ventricular ejection fraction by four different methods,* in progress.

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Academic career

Degree	*Institution*	country	*Year*
B.Sc. Medical Physics	Umm Al-Qura university	Saudi Arabia	2009

Employment

Position	*Employer*	*Period*
Researcher	Umm Al-Qura University	2015-Now
Assistant Researcher	Umm Al-Qura University	2011-2015
Lab Technician	Umm Al-Qura University	2010-2011

Training Activities

Name	*Period*	*Year*
Occupational Safety and Health	1 day	2015
Radiation protection	1 day	2015
7TH international Saudi conference on medical physics	3 days	2014
International Conference on Radiation Medicine (ICRM)	5 days	2014
Nuclear Pharmacy Conference	1 day	2014
4TH Scientific Conference	4 days	2013
CPR certificate	2 days	2012
Security and safety in laboratories	4 days	2009
The 4th RSSA annual conference	4 days	2008
3RD international Saudi conference on medical physics	3 days	2008

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Academic career

Degree	*Institution*	Country	*Year*
B.Sc.	Umm Al-Qura University	Saudi Arabia	2010

Employment

Position	*Employer*	*Period*
Researcher	Umm Al-Qura University	2015-Now
Assistant Researcher	Umm Al-Qura University	2013-2015
Assistant Researcher	Taif University	2011-2013

Training Activities

Name	*Period*	*Year*

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Academic career

Degree	*Institution*	Country	*Year*
B.Sc.	Umm Al-Qura University	Saudi Arabia	1999

Employment

Position	*Employer*	*Period*
Lab Specialist	Umm Al-Qura University	2011-Now
Lab Technician	Umm Al-Qura University	2000-2011

Training Activities

Name	*Period*	*Year*
English Courses	3 Months	2013

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Academic career

Degree	*Institution*	Country	*Year*
Diploma in English	Saudi British Center	Saudi Arabia	2014
B.Sc.	King Abdel Aziz University	Saudi Arabia	1999

Employment

Position	*Employer*	*Period*
Lab Specialist	Umm Al-Qura University	2011-Now
Lab Technician	Umm Al-Qura University	2003-2011

Training Activities

Name	*Period*	*Year*
The design of statistical survey	3day	2015
The relationship between the variables analysis	3day	2014
Foreign trade economics analysis	5day	2014
Radiation safety core of knowledge course and workshop	3day	2013
Time series analysis	3day	2013
Records	2day	2013
Radiation Protection	3day	2010
Protect the environment from chemical and radioactive contaminants	7day	2007

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Academic career

Degree	*Institution*	Country	*Year*
The Associate Degree of College of Technology	College of Electronic Technology	Saudi Arabia	2003

Employment

Position	*Employer*	*Period*
Lab Technician	Umm Al-Qura University	2012 – Now
Lab Founder	Umm Al-Qura University	2003 – 2012
Unit Supervisor	Umm Al-Qura University	2004-2011
Technician	Riyadh House	2003

Training Activities

Name	*Period*	*Year*
English Diploma	1 Year	2014

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Academic career

Degree	*Institution*	Country	*Year*
Diploma of Optics	Umm Al-Qura University	Saudi Arabia	2007
The Associate Degree of College of Technology	College of Electronic Technology	Saudi Arabia	2000

Employment

Position	*Employer*	*Period*
Lab Technician	Umm Al-Qura University	2008 – Now
Lab Founder	Umm Al-Qura University	2004 – 2008

Training Activities

Name	*Period*	*Year*
Optics	2 Weeks	2008

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Academic career

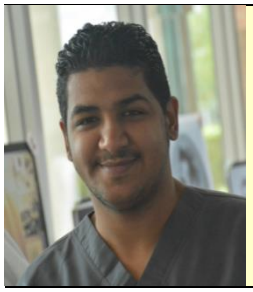
Degree	*Institution*	Country	*Year*
Diploma	Umm Al-Qura University	Saudi Arabia	2007

Employment

Position	*Employer*	*Period*
Lab Technician	Umm Al-Qura University	2009-Now
Teacher		

Training Activities

Name	*Period*	*Year*
Dealing with the pressures of work	3 days	2015
Occupational health and safety	1 day	2015
Radiation safety core	3 days	2013
How to design a web site	5 days	2009
Refresher course for Laboratory Technician	3 days	2008
Qualifying program for the teacher	3 days	2008
ICDL	6 Month	2007



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Academic career

Degree	*Institution*	Country	*Year*
Diploma of Optics	Community College, Umm Al-Qura University	Saudi Arabia	2009

Employment

Position	*Employer*	*Period*
Laboratory Technician	Umm Al-Qura University	2009-Now

Training Activities

Name	*Period*	*Year*
Occupational Safety and Health	1 day	2015
Report Preparation	3 day	2015

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Academic career

Degree	*Institution*	Country	*Year*
B.Sc.	Umm Al-Qura university	Saudi Arabia	2014

Employment

Position	*Employer*	*Period*
Laboratory Technician	Umm Al-Qura University	2015-Now

Training Activities

Name	*Period*	*Year*
Occupational Safety and Health	1 day	2015
Radiation Protection	1 day	2015
English Courses	4 Months	2015