

Ministry of higher education
Majmaah university
College of Science
Department of Physics



وزارة التعليم العالي
جامعة المجمعة
كلية العلوم
قسم الفيزياء

Curriculum Vitae of Physics Faculty Member

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جامعة المجمعة
Majmaah University

Curriculum Vitae of Physics

Faculty Members

1434/ 1435

2013/2014

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Full List of All Department Members

a) Staff Names

م	Name	Rank	Field	Univ. Of Last Degree	E-mail
1)	Thamer Alharbi	Assis. Prof.	Nuclear physics	Surrey/ England	t.alharbi@mu.edu.sa
2)	Abdulmajid Abdulmjeed	Professor	Solid State	QAU/ Pakistan	a.abdulmajid@mu.edu.sa
3)	Mohamed Ali Zaidi	Professor	Solid State	Tuanis Science / Tuanis	m.zaidi@mu.edu.sa
4)	Mohamed Abushayeb	Assoc. Prof.	High Energy	Rajasthan Jaipur/ India	m.abushayeb@mu.edu.sa
5)	Samir Al-Zobaidi	Assis. Prof.	Material Science	Tennessee / USA	s.alzobaidi@mu.edu.sa
6)	Mohamed Gaafar	Assis. Prof.	Solid state	Minia /Egypt	m.gaafar@mu.edu.sa
7)	Taleb Maslamani	Assis. Prof.	Radio physics	Kharkiv State Technical / Ukraine	t.maslamani@mu.edu.sa
8)	Abdu Idris Omer	Assis. Prof.	Electronic system engeneering	Putra Mmalaysia/	a.idris@mu.edu.sa
9)	Mohamed Abu-Sei'leek	Assis. Prof.	Nuclear physics	Jordan / Jordan	m.abuseileek@mu.edu.sa
10)	Ibrahim Shaarany	Assis. Prof.	Theoretical physics	Suez canal/ Egypt	i.shaarany@mu.edu.sa
11)	Hassan Hanafy	Assis. Prof.	Atomic Physics	Cairo / Egypt	h.hanafy@mu.edu.sa
12)	Kaled Abdessalem	Assis. Prof.	Biophysics	Paris 7 / France	k.abdessalem@mu.edu.sa
13)	Sajad Hussain Amir	Assis. Prof.	Soild State	Beijing Institute of Technology/ China	s.amir@mu.edu.sa
14)	Ahmed Adel	Assis. Prof.	Theoretical physics	Cairo / Egypt	aa.ahmed@mu.edu.sa

Dr. Thamer Alharbi



Assistant Professor
Physics Department
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Majmaah university

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Link to Homepage:
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Research Interests:

Radiation Detectors
Nuclear accelerators
Half-lives of excited states

Language Skills

Arabic, English

Qualification (Career and University Education)

2006	B. Sc. Degree	Qassim University, Kingdom of Saudi Arabia
2009	M.Sc. Degree	Surrey University, England
2013	Ph.D Degree	Surrey University, England

Career

2013-Present	Assistant Professor at Department of Physics , College of Science, Majmaah University , Saudi Arabia
2013-Present	Head of Physics Department , College of Science, Majmaah University , Saudi Arabia
2013- Present	Vice Dean of scientific research and postgraduate studies

Publication

1. Gamma-ray Fast-Timing Coincidence Measurements from the $^{18}\text{O}+^{18}\text{O}$ Fusion-Evaporation Reaction Using a Mixed LaBr_3 -HPGe Array; Applied Radiation and Isotopes, Volume 70, Issue 7, July 2012, 1337-1339.
2. Electromagnetic transition rates in the N=80 nucleus ^{138}Ce ; Phys. Rev. C. 87, 014323, (2013).
3. Electromagnetic Transition Rate measurements in the N=80 Isotone, ^{138}Ce ; J. Phys.: Conf. Ser. 381, 012057 (2012)

4. Half-life of the $I=4^-$ Intruder State in ^{34}P : M2 Transition Strengths Approaching the Island of Inversion; Phys. Rev. C 85, 064303 (2012).
5. Half-life of the $I=4^-$ Intruder State in ^{34}P Using LaBr_3 : (Ce) Fast Timing; Phys.: Conf. Ser. 381 012063 (2012).
6. Half-life of the ^7Li -induced reactions for fast-timing with LaBr_3 : Ce detectors; AIP Conf. Proc. 1491, pp 93-96 (2012).
7. Half-life of the yrast 2^+ state in ^{188}W : Evolution of deformation and collectivity in neutron-rich tungsten isotopes, Phys. Rev. C. 88, 044301 (2013)
8. Half-life Measurements of Excited states in ^{132}Te and ^{134}Xe , Acta Physica Polonica B Vol. 44 (2013).

Teaching Experience

Nuclear Physics I	Phys. 481	Majmaah University
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Conferences

IOP Nuclear Physics	England	19/ 4/ 2010
Nuclear Isomers: Structure and Applications	England	21/5/2010
Nuclear Physics	Poland	6/9/2010
Nuclear Structure Challenges with Radioactive Beams	Turkey	14/9/2010
PRESPEC Decay Physics	England	12/1/2011
Nuclear and Particle Physics Divisional	England	7/4/2011
IRRMA-8 Industrial Radiation and Radioisotope Measurement Applications	USA	26/6/2011

Practical Skills

Microsoft Office

Latex Writing

Prof. Dr. Abdul MAJID Abdul Majeed



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Research Interests:

Nanostructure synthesis and Characterization
Nanostructured device fabrication and Characterization
Semiconductor materials and devices (3rd Generation Solar Cells)

Language Skills

English (R,W,S), Urdu (R,W,S), Punjabi (R,W,S) and Arabic (R,W)

Qualification (Career and University Education)

1983	B. Sc. Degree (Physics, Pure Mathematics, Applied Mathematics)	University of Punjab, Lahore. Pakistan
1986	M.Sc. Degree (Physics)	University of Peshawar, Peshawar, Pakistan.
2006	PhD Degree (Semiconductor Physics)	Quaid-i-Azam University, Islamabad, Pakistan Title: <i>Study of Deep Levels Associated with some Heavy Transition-Metals in MOCVD GaAs.</i> Supervisor: Dr. M. Zafar Iqbal (Meritorious Professor).
2009	Post Doctorate (<i>Nanotechnology,</i>)	Department of Electronic Materials Engineering (EME), Research School of Physical Sciences and Engineering (RSPhysSE), Australian National University (ANU), Canberra ACT-0200, Australia Title: <i>Experimental Study of Quantum Structured Optoelectronic Devices: Intermediate Band Solar Cells</i> Supervisor: Professor Chennupati Jagadish (Federation Fellow)

Career

Full-time Faculty Member

Mar. 26, 2013 – Continue	<i>Professor,</i> Department of Physics, Majmaah University, College of Science, Alzulfi, Saudi Arabia
May 30, 2007 – Mar. 25, 2013 (Conti.....On Ex-Pakistan Leave)	<i>Professor (BPS-21)</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Jun 24, 2008 – Mar. 26, 2009	<i>Visiting Fellow</i> (Academic) at Australian National University Canberra, Australia. (Post Doctoral Fellowship awarded by Higher Education

Feb. 10, 2007 - May 29, 2007	Commission (HEC) of Pakistan, <i>Professor (BPS-20)</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Aug. 12, 2004 – Feb. 09 2007	<i>Associate Professor</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Feb. 12, 1994 – Aug. 11, 2004	<i>Assistant Professor</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Sep. 21, 1987 – Feb. 11, 1994	<i>Lecturer in Physics</i> Department of Physics, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan

Experience Administrative (Extra-Responsibilities)

Jan. 01, 2009– Mar. 25, 2014	Chairman, Department of Physics, University of AJ&K
Oct. 01, 2009 – Mar. 25, 2014	Director, High-tech centralized instrumental Lab.
Jun. 01, 2009– Mar. 25, 2014	Incharge/Supervisor, Nanotechnology/Semiconductor Physics Lab, Department of Physics, University of AJ&K
Oct. 31, 2006 – Jun 24, 2008	Additional Controller of Examinations
Aug. 15, 2005 – Sept 10, 2012	Member, University Affiliation Committee
Aug. 01, 2005 – Oct. 8, 2005	Chairman, University Technical Committee: Equipment
Aug. 08, 2004– Oct. 8, 2005	Chairman, University (AJ&K) Web Site Developer

Short Visits

Jul. 09-16, 2011	Scanning Electron Microscope: Jeol JSM-6510LV/JSM-6610LV, One week Training at Jeol Instruments Ltd. Tokyo, Japan
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Publication

2014	M. Fakhar-e-Alam, Shubana Rahim, M. Atif, M. Hammad Aziz, M. Imran Malick, S. S. Z. Zaidi, R. Suleman, Abdul Majid, <i>ZnO Nanoparticles as Drug Delivery Agent for Photodynamic Therapy</i> , <i>Laser Phys. Lett.</i> 11, 025601
2014	Sajad Hussain, Chuanbao Cao, Waheed S. Khan, Ghulam Nabi, Zahid Usman, Abdul Majid, Thamer Alharbi, Zulfiqar Ali, Faheem K Butt, Muhammad Tahir, Muhammad Tanveer, and Faryal Idress, " <i>Cu₂O/TiO₂ nanoporous thin-film heterojunctions: Fabrication and electrical characterization</i> " <i>Materials Science in Semiconductor Processing (Available online 28 November 2013)</i> http://dx.doi.org/10.1016/j.mssp.2013.11.018
2012	Nasar Ahmed, A. Majid, M. Rashid, B. Shakeela, Z. Aziz, Ayaz. Arif Khan, M. A. Khan, Nagma Haider and R. H. Siddiqui, <i>Growth of Zn/ZnO core/shell system supported by indented sites</i> , (manuscript: submitted to <i>Nano Research Letters</i>)
2011	Muhammad Rafique, Matiullah, Saeed Ur Rahman, Said Rahman, Muhammad Ikram Shahzad, Bushra Azam, Ishfaq Ahmed, Abdul Majid & Muhammad Iqbal Siddique - <i>Assessment of indoor radon doses received by the dwellers of Balakot – NWFP, Pakistan: a pilot study</i> , <i>Carpathian Journal of Earth and Environmental Sciences</i> , 6, 133-140.
2010	A. Majid, C. Jagadish, L. Fu and H. Tan, <i>MOCVD grown Quantum Dot-in-a-Well Solar Cells</i> , <i>Key Engineering Materials</i> , 442, p-398-403, Trans Tech Publications, Switzerland.
2009	Nazir A. Naz, Umar S. Quarashi, A. Majid and M. Zafar Iqbal, <i>Ruthenium related deep-level defects in n-type GaAs</i> , <i>Physica B</i> , 404, 4956.
2008	M. Zafar Iqbal, A. Majid, Nazir A. Naz and Umar S. Qurashi, <i>4d transition-metal impurity rhodium in GaAs grown by metal-organic chemical vapor deposition</i> , <i>J. Appl. Phys.</i> , 104, 113708.
2008	L. Fu, A. Majid, G. Jolley, S. Mokokpati, H. H. Tan, and C. Jagadish, <i>Application of self-assembled</i>

quantum dots for optoelectronic devices, **Australia Japan Nanophotonics Workshop ANU, Canberra, December 09-10.**

2008 Khizar-ul-Haq, M. A. Khan, U.S.Qurashi and Abdul Majid, *Interaction of alpha radiation with iron doped n-type silicon*, **Microelectronics Journal** 39, 797.

2007 Nazir A. Naz, Umar S. Qurashi, Abdul Majid, M. Zafar Iqbal, *Doubly-charged state of EL2 defect in MOCVD grown Gas*, **Physica B**, 401, 250.

2007 Suleman Khan, Naseer Ahmed, Akhlaq Ahmad Khan Amanullah Khan and A. Majid, *Lie Group Analysis of a linear Nonholonomic Dynamical System*, **Sci. Int.** 19, 83.

2007 Abdul Majid, *Efficient Low Level Signal Measuring Instrument Lock-In Amplifier*, **Sci. Echo**, 15 July.

2006 M. Zafar Iqbal, A. Majid, A. Dadgar and D. Bimberg, *Electric-field-enhanced thermal emission from osmium-related deep level in n-GaAs*, **Advances in Science and Technology Vol. 46 pp. 73**, Trans Tech Publications, Switzerland.

2005 A. Majid, M. Zafar Iqbal, A. Dadgar and D. Bimberg, *Osmium Related Deep Levels in MOCVD Grown GaAs*, **J. Appl. Phys.**, 98, 083709.

2005 M. Zafar Iqbal, A. Majid, A. Dadgar and D. Bimberg, *Deep Levels in Osmium Doped p-type GaAs Grown by Metal-organic Chemical Vapor Deposition*, **27th International Conference on the Physics of Semiconductors**, Arizona, USA. AIP Conf. Proc. 772, 147.

2005 A. Majid, M. Zafar Iqbal, A. Dadgar and D. Bimberg, *Deep Levels in Ruthenium Doped p-type MOCVD GaAs*, **27th International Conference on the Physics of Semiconductors**, Arizona, AIP Conf. Proc. 772, 143.

2003 A. Majid, M. Zafar Iqbal, A. Dadgar and D. Bimberg, *Deep Levels in Rhodium-Doped p-type MOCVD GaAs*, **Physica B**, 340, 362.

2003 M. Zafar Iqbal, A. Majid, A. Dadgar and D. Bimberg, *Osmium Related Deep Levels in n-type GaAs*, **Physica B**, 340, 358.

2003 A. Majid, M. Zafar Iqbal, Shah Haidar Khan, Akbar Ali, Nasim Zafar, A. Dadgar and D. Bimberg, *Characteristics of Deep Levels Associated with Rhodium Impurity in type GaAs*, **J. Appl. Phys.**, 94, 3115.

2001 M. Zafar Iqbal, A. Majid, Shah Haidar Khan, Akbar Ali, Nasim Zafar, A. Dadgar and D. Bimberg, *Rhodium Related Deep Levels in n-type MOCVD GaAs*, **Physica B**, 308, p816-819.

1999 M. Zafar Iqbal, U. S. Qurashi, A. Majid, Aurangzab Khan, Nasim Zafar, A. Dadgar and D. Bimberg, *Deep Levels Associated with Alpha Irradiation of n-type MOCVD InP*, **Physica B**, 273, 839.

1997 A. Majid, A. Hussain and M. A. R. Khan, *Determination of Optical Constant and Thickness of Zn_{0.9}Cd_{0.1}S Thin Films*, **Kashmir Res. J. N. Sci.**, Vol 1 (1), 27.

1997 A. Majid and G. A Khan, *A Proposed Automated Computerized Hall Profiling System for Characterization of Semiconductor Materials*, **Kashmir Res. J. N. Sci.**, Vol 1 (2), 87.

xxxx Abdul Majid, *Effect of lambda correct electric field on emission rates of osmium related deep level in n-type Gas* (Manuscript ready for submission).

xxxx A.Majid, C. Jagadish, L. Fu. and H. Tan, *Luminescence behaviour of MOCVD grown 10 layers Quantum Dot and quantum Well in GaAs*, (to be submitted in **Physica Status Solidi - Rapid Research Letters**)

xxxx A.Majid, L. Fu. H. Tan and C. Jagadish, *Comparison of MOCVD grown AlGaAs and InGaAs Dot-in-a-Well Intermediate Band Solar Cells*, (manuscript in process for **Applied Physics Letters**)

Conference Presentations

- Nov. 07-11, 2010** Fu, L. Jolley, G. Lu, H.F. Majid, A. Tan, H.H. Jagadish, C., *Temperature effect on device characteristics of InGaAs/GaAs quantum dot solar cell*, **23rd Annual Meeting of the IEEE Photonics Society, 2010, Denver, CO**,
- Dec. 14-16, 2009** Fu, L. Jolley, G. Mokkalapati, S. Majid, A. Lu, H.F. Tan, H.H. Jagadish, C. *III-V*

quantum dots for optoelectronic device applications, **International Conference on Computers and Devices for Communication, 2009 (CODEC 2009)**. Kolkata Print ISBN: 978-1-4244-5073-2 INSPEC Accession Number: 11136798, Date of Current Version: 05 February 2010.

- Dec. 09–11, 2009** L. Fu, G. Jolley, A. Majid, S. Mokkaḡpti, H. H. Tan, and C. Jagadish, *Application of self-assembled quantum dots for optoelectronic devices*, **International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2009)** Guwahati, Assam (India),.
- Jun. 26-31, 2002** A. Majid, M. Zafar Iqbal, Akbar and Ali, *A Hole Emitting Metastable Defect in n-type GaAs*, presented at 27th **International Nathiagali Summer College; Nathiagali, NWFP, Pakistan.**
- Jun. 26-31, 2002.** A. Majid, M. Zafar Iqbal, Akbar and Ali *Extended Defect of Rhodium in MOCVD Grown n-GaAs*, presented at 27th **International Nathiagali Summer College; Nathiagali, NWFP, Pakistan.**
- Jul. 02- 08, 2001** A. Majid, M. Zafar Iqbal and Akbar Ali, *Investigation of Rhodium Related Deep Levels in MOCVD Grown n-GaAs*, presented at 26th **International Nathiagali Summer College; Nathiagali, NWFP, Pakistan.**
- Nov. 20-22, 2000.** A. Majid, S. H. Khan, M. Zafar Iqbal and Akbar Ali, *Deep Level Transient Spectroscopy of Rhodium Doped n-GaAs*, presented at 8th **National Symposium on “Frontiers in Physics”, Govt. College University, Lahore.**
- Nov. 20-22, 2000** S. H. Khan, A. Majid, M. Zafar Iqbal and Akbar Ali, *Field Effect on Thermal Electron Emission from Rhodium in n-GaAs*, presented at 8th **National Symposium on “Frontiers in Physics”, Govt. College University, Lahore.**

Teaching Experience

Semiconductors	PHYS473	BS Physics	Majmaah University, College of Science, Al-Zulfi, Saudi Arabia.
Solid State Physics	PHYS471	BS Physics	Majmaah University, College of Science, Al-Zulfi, Saudi Arabia.
Method of Mathematical Physics	PHYS203	BS Physics	Majmaah University, College of Science, Al-Zulfi, Saudi Arabia.
Solid State Physics	PHY-5602	M.Sc. Physics.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Physics Lab-VI: Solid State Physics	PHY-5606	M.Sc. Physics.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Elective Advance Course-I: (Solid State Physics): Band Theory of Solids	PHY-636	M.Sc. Physics.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Elective Advance Course-II (Solid State Physics) Dielectric and Magnetics properties of Solids	PHY-646	M.Sc. Physics.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Elective Advance Course-Composite Advance topics in Solid State Physics (Research Students)		M.Sc. Physics.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Physics of Semiconductors	PHY-7105	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Physics of Semiconductors Devices	PHY-7205	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Nanoscience and technology	PHY-7214	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Electrodynamics.	PHY-7102	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Material Studies Of Electron Emission	PHY-7211	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Defects In Materials And Measuring Techniques	PHY-7212	M.Phil./Ph.D.	University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan

Supervision of Research Students:**Ph.D. Research Thesis: (Listed as Enrolment Year)**

- 2012 Nasar Ahmed, *Synthesis and characterization of Metal Oxide Core/shell system for drug delivery.* (Status: Research work in progress)
- 2012 Muhammad Rashid Khan, *Doping effect of transition metals in ZnO tetrapods for device fabrication.* (Status: Research work in progress)
- 2011 Muhammad Athair, *Optical Properties of Quantum Structured Semiconductor Materials for Solar Cells.* (Status: Research work in progress)

M. Phil. Research Thesis: (Listed as Enrolment Year)

- 2012 Khurram Shahzad, *Study of Chemical Vapour Deposition (CVD) System for fabrication of Zinc Oxide nanostructures* (Status: Research work in progress)
- 2012 Majid Khalil, *Characterization of thermally annealed ZnO nano-structures* (Status: Research work in progress)
- 2012 Shahbana Raheem, *Biomedical applications of ZnO nanoparticles* (Status: Research Lab work completed Thesis write-up in progress)
- 2012 Bushra Aziz, *Irradiation Effect on ZnO Nano Structures* (Status: Thesis submitted for evaluation)
- 2011 Muhammad Iftikhar, *n-ZnO/p-Si Based junction Diode and its Characteristics* (Status: Thesis submitted for evaluation)
- 2011 Nasar Ahmed, *Fabrication and Characterization Zn/ZnO Core/Shell System* (Status: Completed/Awarded)
- 2011 Muhammad Rashid Khan, *Catalyst Assisted Growth and Characterization of ZnO Nano-Structures* (Status: Completed/Awarded)
- 2011 Shakeela Bibi (in progress), *Dark Current Analysis of Quantum Dot Intermediate Band Solar Cell,* (Status: Completed/Awarded)
- 2011 Zubia Aziz (in progress), *Study of Nanoporous Anodic Aluminium Oxide* (Status: Completed/Awarded)

M.Sc. Student's Reports:

- 2012 M. Umar Fayaz, *Characterization of Cobalt doped ZnO nanoparticle*
- 2012 Usman Hamza and Tousef Ahmed, *Characterization of Cadmium doped ZnO Tetrapods.*
- 2011 Atif Bashir, *Synthesis and Characterization of Metal doped ZnO nano particles.*
- 2011 Jan Muhammad, *Study of size dependent parameters on Synthesis of Copper doped ZnO nano particles*
- 2009 Mohammad Habib Yasin and Mohammad Asif Latif, *Effect of Etching Parameters on Porosity of Fabricated Porous Silicon.*
- 2009 Ghazala Razaq, Raqia Khatoon and Mizrah Tariq, *Optical properties of thermally annealed chlorine doped $Zn_{0.2}Cd_{0.8}S$.*
- 2008 M. Rashid Khan, Raja Kurram Shazad and Wajid Taj, *Fabrication of Porous p-type Silicon.*
- 2007 Muhammad Yousaf, *Energy Band Structure of Carbon Nanotubes using Atomistix Virtual Nano Lab.*
- 2007 Saeed-ul Hassan Gilani, *Fabrication of porous on n-Type Silicon.*
- 2007 Ishtiaq Ahmed and Naeem Akhtar, *Study of Organic Light Emitting Diode.*
- 2007 Darakhshanda Jabeen, *Study of Fabrication of porous on p-Type Silicon.*

2006	Habib-ur-Rehman , <i>Study the Formation Porous Silicon.</i>
2006	Khalid Mehmood , <i>Fabrication & Characterization of Carbon Nanotubes.</i>
2006	Zulqar-Nain Habib , <i>Fabrication and Characterization of Metal Nanotubes.</i>
2006	Mohsin Rafique , <i>Study and numerical calculation of electronic structure of Si.</i>
2006	Tariq Aziz , <i>Study of electronic structure of GaAs with the help of Density Function Theory.</i>
1996	Akhtar Hussain and M. Abdul Rauf Khan , <i>Optical Properties of Chlorine Doped Zn_{0.9}Cd_{0.1}S Thin Films.</i>
1992	Akram-ul-Haq , <i>Optical Properties of Zn_xCd_{1-x}S Thin Films Evaporated by Electron Bombardment.</i>
1990	Nigahat G. M. and Fauzia Tayyib , <i>Temperature Dependent Electrical Conductivity of Doped Germanium.</i>
1990	Ajaz Hassan Raza , <i>Temperature Dependent Hall Effect of Doped Germanium.</i>
1989	Abdul Hamid Khan , <i>Measurement of Lattice Parameters of Potassium Bromide by X-Ray Diffraction.</i>
1989	Muhammad Rafique , <i>Study of Lattice Parameters of Sodium Chloride.</i>
1989	Najam-ul Hassan , <i>Determination of Lattice Parameters of Potassium Iodide by X-Ray Diffraction.</i>

Projects/Reports:

2010-2011	AJ&K University research support project - Fabrication and Characterisation of Porous Silicon. (In progress)
2010-2011	HEC project maintenance of Scientific equipments (Scanning electron microscope: Jeol JSM-6510LV) (Done final report submitted).
2008-2009	Post Doctoral Research Report on Experimental Study of Quantum Structured Optoelectronic Devices: Intermediate Band Solar Cells, Submitted in partial fulfilment of requirement of postdoctoral fellowship of Higher Education Commission (HEC) of Pakistan/Australian National University (ANU) Department of Electronic Materials Engineering (EME), Research School of Physical Sciences and Engineering (RSPHYSSE), Canberra ACT-0200, Australia
1995-1996	University/ U.G.C. Project - Characterisation of some Technologically important Materials in Thin Films form (done and facilitated the two M.Sc. research projects).
1999-2005	Commission of European Communities project No. CII-CT93-0076. A partially supported for Collaborative Study on Transition Metal Doped III-Vs Compound Semiconductors (Done as research project of Ph.D.)
xxxx	HEC Infrastructure Facilities project: Provision of Liquid Nitrogen Plant: A Basic Infrastructure for Experimental Sciences "Cryogenics, Key to Advanced Science and Technology" (submitted via UAJK).

Training Experience

Mar. 10-13, 2011	Sputter coater: Jeol JFC-1600
Jun 15-20, 2010	Fourier Transform Infrared Spectrometer: Perkin Elmer Spectrum 100 with ATR
May 23-26 2010	UV-Visb-IR Spectrometer: Perkin Elmer Lambda-950
Computer Courses:	
Oct. 1989 - Jan. 1990,	FORTRAN-77, Computer Centre, Azad Jammu and Kashmir University (AJ&KU), Muzaffarabad, Pakistan.
Jan. 1987 to Aug. 1987	Computer Orientation, P.O.F. Welfare Computer Centre, Wah Cantt, Pakistan.

Technical Courses:

Oct. 1983 to May 1984,	Electrician Course, Allama Iqbal Open University, Islamabad, Pakistan.
Oct. 1982 to May 1983,	Electrical Wiring, Allama Iqbal Open University, Islamabad, Pakistan.
Jun. 1977 to Jan. 1978,	Photography, London Institute of Photography (Pvt), Karachi, Pakistan.

Conferences/ Seminar Organized

June 08, 2011	Seminar on “<i>Vacuum Science and Technology</i>”, University of Azad Jammu and Kashmir, Muzaffarabad.
April 12-14, 2004	<i>Tutorial Course and Symposium on Topics in Semiconductors</i>, Quaid-i-Azam University, Islamabad, Pakistan.
April 15-17, 2004	<i>Workshop on Nanotechnologies</i>, Quaid-i-Azam University, Islamabad, Pakistan.
April 08-10, 1999	<i>Tutorial Course and Symposium on Topics in Semiconductors</i>, Quaid-i-Azam University, Islamabad, Pakistan.

Computer Experience **Application Programmes**

Microsoft Windows, Origin, Sigma Plot, Microsoft Excel, Microsoft Word, Microsoft Power Point, Corel Draw, Adobe PhotoShop, Home suite, Netscape composer etc.

Membership of Scientific and Technical Societies

- Life member Pakistan Institute of Physics (PIP), Lahore, Pakistan.
- Life member Pakistan Society for Semiconductor Science and Technology (PS³T), Quaid-i-Azam University, Islamabad; Pakistan.
- Member Pakistan Physical Society (PPS). Islamabad; Pakistan.
- Associate Member, Institute of Nanotechnology (IoN), USA.
- Member Test and Technology Technical Council (ttc), USA, a sister society of IEEE, USA.
- Member, The Australian Research Council Nanotechnology Network (ARCNN), Australia.

Pro. Dr. Mohamed Ali Zaidi



Full Professor
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Link to Homepage:	http://faculty.mu.edu.sa/hhanafy

Research Interests:

-Solid state physics and semiconductors.
-Theoretical study and electrical characterization of electrically active defects in semiconductors by technical DLTS (Deep Level Transient Spectroscopy), C (V), I (V) and G (ω).
_ Photovoltaic cells
_ Quantum Mechanics

Language Skills

Arabic- English – French

Qualification (Career and University Education)

B. Sc. Degree (Physics)	" Good" Faculty of Science of Tunis, Tunis University
MS. C. Degree (Mathematics)	" Good" Physics of semiconductor Central School of Lyon France
PhD Degree (Physics)	" Right Honorable " <u>Internal</u> part at Faculty of Science of Tunis, Tunis University External part Laboratory of Solid Physics group, University of Paris VI Jussieu Paris France

Career

__ Full Professor Faculty of Science of Monastir University of Monastir Tunisia 01/9./2001 to now

__ Head of department of physics Faculty of Science of Monastir University of Monastir Tunisia 01/7./2008 to 31/08/2011

__ Associated Professor Faculty of Education in Salalah Oman 10/30/1998 to 01/09/2001

__ Head of Unit Physics Faculty of Education in Salalah Oman 10/30/1998 to 01/09/2001

__ Associated Professor Faculty of Science of Monastir University of Monastir Tunisia 10/03/1993 to 30/10/1998

__ Assistant Professor Faculty of Science of Monastir University of Monastir

Tunisia 01/15/1989 to 03/10/1993.

__Assistant Faculty of Science of Monastir University of Monastir Tunisia
10/20/1982 to 01/15/1989

__Professor of the Higher Institute of Mathematics Sousse University of Sousse
Tunisia 01/10./2011 to 01/23/2013

__Full Professor Higher Institute of Military Sousse Tunisia 01/09./2002 to
30/06/2005

Short Visits

__A working visit to France in Lille laboratory IEMN Lille (France) for a week in the scope of a contract CMCU between Tunisia and France I was the Head of Mission.

__A working visit to France in Lyon LPM for a week in the scope of a contract CMCU between Tunisia and France. I was the Head of Mission.

__Working visit to Morocco in Mohammedia School of Science and Technology for a week in the scope of a contract between Tunisia and Morocco, I was the Head of Mission

__ Post doc (6 months) LPM Laboratory INSA of Lyon France

__ Post doc (6 months) Laboratory of Solid Physics Group Paris VI University Jussieu France

Publication

1-Direct-current and radio-frequency characteristics of passivated AlGa_N / GaN / Si high electron mobility transistors.

•H. Mosbahia, M. Gassoumi, Houcine Mejri,, C. Gaquière •M.A. Zaidi, H. Maaref
Current Applied Physics Current Applied Physics 2013•

2-Deep traps responsible for capacitance hysteresis in AlGa_N / GaN FAT-HEMT's
M. Charfeddine M. A. Zaidi, H. Maaref JOURNAL OF OPTOELECTRONICS AND
ADVANCED MATERIALS Vol. 17, No.7-8, July - August 2013, p. 130 - 135

3-Numerical Investigation of Kink Effect Correlated with Defects in AlGa_N / GaN High Electron Mobility Transistors.

M. Charfeddine, M. A. Zaidi and H. Maaref

Journal of Computational and Nanoscience Vol. 10, 1-7, 2013

4- Analysis of Deep Levels in AlGa_N / GaN High Electron Mobility Transistor on Si Substrate Using Capacitance DeepLevel Transient Spectroscopy

M. Charfeddine H. Mosbahi, MA Zaidi, and H. Maaref Advanced Science•Engineering and
Medicine Vol. 5, pp. 1 to 4.2013

5- -Direct-current and radio-frequency characteristics of passivated AlGa_N / GaN / Si high electron mobility transistors

H. Mosbahi, M. Gassoumi, Imen Saidi, Houcine Mejri C. Gaquière M.A.Zaidi H. Maaref
Current Applied Physics 13 (2013) 1359-1364

6-Effect of surface passivation by SiN/SiO₂ of AlGa_N / GaN high-electron mobility transistors on Si substrate by deep level transient spectroscopy method

Malek GASSOUMI *, Hana MOSBAHI, Mohamed Ali ZAIDI, Christophe GAQUIERE, Hassen MAAREF Journal of Semiconductors, Volume 47, Issue 7. (2013)

7-Critical behavior in Fe-doped manganites $\text{La}_{0.8}\text{Ba}_{0.2}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ $x = 0.15$ and $x = 0.2$
S.Ghodhbane, A.Dhahri, N.Dhahri, J.Dhahri, M.A.Zaidi *Journal of Alloys and Compounds*
Journal of Alloys and Compounds

8- 2-D Theoretical Model for Current-Voltage Characteristics in AlGaIn/GaN HEMT's.
Charfeddine, Manel; Belmabrouk, Hafedh; Zaidi, Mohamed Ali; Maaref, Hassen
Journal of Modern Physics (21531196) . Aug2012, Vol. 3 Issue 8, p881-886. 6p.

9- Electrical characterization of AlGaIn/GaN HEMTs ON Si substrate
H. Mosbahia, M. Gassoumia,, H. Mejrib , M. A. Zaidi, C. Gaquiere, H. Maaref
Journal of Electron Devices, Vol. 15, 2012, pp. 1225-1231

10- Theoretical investigation of kink effect with deep defects and temperature in
AlGaIn/GaN HEMTs
M. CHARFEDDINE^{a*}, H. MOSBAHI^a, M. A. ZAIDI^{a,b}, H. MAAREF^a *Journal of Electron Devices*,
Vol. 15, 2012, pp. 1225-1231

11- Poole-Frenkel assisted emissions from a barrier trap in AlGaIn / GaN / Si HEMTs"
Malek GASSOUMI, Houcine MEJRI, Christophe GAQUIERE, Mohamed Ali ZAIDI, Hassen
MAAREF *Journal of Electron Devices*, Vol. 11, 2011, pp. 538-54

12- Electrical Characterization of Traps in AlGaIn / GaN FAT-HEMT's on Silicon Substrate by
CV and DLTS Measurements.)
Manel Charfeddine, Malek GASSOUMI *, Hana Mosbahi, Christophe Gaquière, Mohamed
Ali Zaidi1, Hassen Maaref. *Journal of Modern Physics*, Vol. 2 (10), p. 1229 (2011)

13- Electron traps studied in AlGaIn / GaN HEMT on Si substrate using capacitance deep
level transient spectroscopy.
H. MOSBAHI, M. GASSOUMI, M. CHARFEDDINE, M A. ZAIDI, C. GAQUIERE, H.MAAREF
Journal of Optoelectronics and Advanced Materials Vol.12 (11), (2010)

14- Deep levels in AlGaIn/GaN HEMTs on silicon substrate are characterized by current
deep level transient spectroscopy
H. MOSBAHI, M. GASSOUMI, C. GAQUIERE, M. A. ZAIDI, H. MAAREF *Optoelectronics and
Advanced Materials – Rapid Communications*, Vol 4(11); (2010), p. 1783

15- Deep levels in AlGaIn / GaN HEMTs on silicon substrate are characterized by current
deep level transient spectroscopy.
.MOSBAHI, M.GASSOUMI, C.GAQUIERE, M.A.ZAIDI, and H.MAAREF
MADICA 2010», Tabarka (Tunisie)

16- Investigation of deep levels in AlGaIn/GaN HEMTs on silicon substrate by
conductance deep level transient spectroscopy
H. Mosbahi, M. Gassoumi, M. Charfeddine, C. Gaquiere, M.A. Zaidi, H. Maaref
*Design and Technology of Integrated Systems in Nanoscale Era (DTIS), 2010 5th
International Conference on; 04/2010*

17- Deep level investigation by capacitance and conductance transient spectroscopy in
AlGaIn/GaN/SiC HEMTs
M. GASSOUMI, B. GRIMBERT, M. A. POISSON, . FONTAINE, M. A. ZAIDI, C. GAQUIERE
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 11, No. 11, November

2009, p. 1713 - 1717

18- AlGa_N / GaN / Si HEMT's and capacitance deep level transient spectroscopy (DLTS) • H. Mosbahi, M. Gassoumi, M.A. Zaidi, C. Gaquiere, H. Maaref International Meeting on Materials for Electronic Applications, IMMEA 2009

19-Electronic properties of multi-quantum dot structures in Cd_{1-x}Zn_xS alloy semiconductors.

Safta, N., Sakly, A., Mejri, H., Zaïdi, M.A. European Physical Journal B 53 (2006)

20- Effects of high doping on the bandgap bowing for Al_xGa_{1-x}N

Safta, N., Mejri, H., Belmabrouk, H., Zaïdi, M.A. *Microelectronics Journal* (2006) 37 (11) PP. 1289 - 1292

21- Electric field effect on the electron emission from Te-DX in Al_xGa_{1-x}As

L. Bouzrara, R. Ajjel, H. Mejri, M.A. Zaidi, H. Maaref
Materials Science and Engineering C 26 (2006) 580-582

22- Alloy splitting of Te-DX in Al_xGa_{1-x}As analysis using the deep level transient spectroscopy technique

L. Bouzrara, R. Ajjel, H. Mejri, M.A. Zaidi, H. Maaref
Microelectronics Journal 37 (2006) 586-590

23- " Excitonic recombination processes in GaAs grown by close space vapor transport "

L. Bouzrara, R. Ajjel, H. Mejri, M.A. Zaidi, S. Alaya, J. Mimila-Arroyo, H. Maaref
Microelectronics Journal 35 (2004) 577-580

24- Electron traps in metal organic chemical vapor deposition grown Ga_{1-x}Al_xAs .

R Ajjel, L. bouzrara , M.A.Zaidi, H.Maaref and G.Bremond,
Physica (B).15-19 (2003).

25- Poole Frenkel assisted emission from donor level Chromium doped GaP.

R Ajjel, M.A.Zaidi, G.Bremond, G.Guillot and J.C.Bourgoin.
.Applied. Phys. Lett. 72,302 (1998)

26- The Dx Center in GaAsP alloys

M.M.Ben Salem, M.A.Zaidi, M. Zazoui, H Maaref and J.C.Bourgoin
Phys.State.Sol.(b) 209, 363-374 (1998)

27- Deep level analysis of n type in GaAl_{1-x}P_x alloys.

M.M.Ben Salem, M.A.Zaidi, H Maaref and J.C.Bourgoin
J.Applied.Phys. 78,4004 (1995).

28- Defects in electron GaAlAs alloys

M.A.Zaidi, H.Maaref, M.Zazoui and J.C.Bourgoin
. J.Applied.Phys. 74,284 (1993)

29- Defects in electron GaAlAs alloys

M.A.Zaidi, H.Maaref, M.Zazoui and J.C.Bourgoin
J.Applied.Phys. 74,284 (1993)

30- Hole capture cross section of Dx centers in Ga_{1-x}Al_xAs.

M.A.Zaidi, H.Maaref, M.Zazoui and J.C.Bourgoin

23 Phys. Rev. B 44, 7987 (1991)

30- Defects in electron irradiated n –type GaP and GaInP.

M.A.Zaidi, H Maaref, M.Zazoui and J.C.Bourgoin

Materials Science Forum Vol.143-147 (1994)

31- Defects in electron irradiated GaInP

J.Kryniki, M.A.Zaidi, M.Zazoui, H.Maaref, J.C.Bourgoin, M.Diforte Poisson, Chrynlinsky, SL.Delage and H.Blank

J.Applied.Phys. 74,260 (1993)

32- Recombination Centers in Czochralski grown p type .

M.Zazoui , M.A.Zaidi, J.C.Bourgoin and G.Stroobl

J.Applied.Phys. 74,3944 (1993)

33- Minority carrier cross section of the EL2 defects in GaAs.

M.A.Zaidi, H.Maaref, and J.C.Bourgoin Applied. Phys.Lett. (1992)

34- Poole Frenkel emission deep levels in electrons Germanium.

M.A.Zaidi, H.Maaref and J.C.Bourgoin

Semicond. Science Technol. 4, 93(1989)

Teaching Experience

Classical mechanics

Electromagnetism

Electronics^۱

Electrostatic

Magnetostatic

general physical

modern Physics
optical instruments
Geometric optics
Mathematics
Physical optics
Relativity
Waves and vibrations
Quantum Mechanics 1
Quantum Mechanics 2
Fluid mechanics
Semi-conductor
Properties of matter
Electrical characterization of components
Physics of Solids I
Physics of Solids II
Group theory
Quantum Mechanics 3
Mathematics

Training Experience

Training "Deep level transient Spectroscopy " Monastir University , Tunisia

Training "Optical Deep level transient Spectroscopy ", INSA of Lyon France

Training " Electron beam processing or electron irradiation ", University Paris V France

Conferences

Tunisia France Physics Conference	2000
Conference on Semiconductor and applications	2004
Conference "missing mass"	1993

Practical Skills

Degree in Mathematics
the French language
Computer

Dr. Mohammad kheare Abu Shayeb



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Physics Department
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Research Interests:

Experimental high energy physics

Quark gluon plasma

Heavy ion Interactions

Qualification (Career and University Education)

Ph.D in (Physics))High Energy Physics	<i>University of Rajasthan-Jaipur-INDIA-awarded on March 2003</i>
M.Sc (Physics)	Nuclear Physics	<i>Dr. B. S Marathwada University- Aurangabad – India, awarded on Apr 1996. Placed in Second Division.</i>
B.Sc (Physics)	Physics	<i>Dr. B. S Marathwada University- Aurangabad – India, awarded on Apr 1996. Placed in Second Division.</i>

Employment

2011-2014	Associated professor (Al Majmaah University)KSA
2011-2011, July	Dean of science faculty (al-Hussein Bin talal University)
2011	Associated professor (al Hussein bin talal university)
2010-2011	Vice Dean of Science faculty <i>Al-Hussein B T U, Ma'an, Jordan</i>
2008 sep-2009	Dean of Science faculty (acting) <i>Al-Hussein B T U, Ma'an</i>
2004, apr- 2008, Sep	Vice Dean of Science faculty <i>Al-Hussein B T U, Ma'an, Jordan</i>
2008, Apr	Head of Physics department , <i>Al-Hussein B T U, Jordan</i>
2004	Asst Poff , Al-Hussein Bin Talal University, <i>Ma'an, Jordan</i>
2002-2003	Teaching , Granada College affiliated to, Balqa

	University, <i>Jordan</i>
Industry collaboration	N/A
Patents and proprietary right	N/A
Last Publication	<p>Hanan H. Saleh & Mohammad Abu Shayeb” Natural radioactivity distribution of southern part of Jordan (Ma’an) Soil, Annals of Nuclear Energy (Impact Factor: 0.8). 01/2014; 65:184–189</p> <p>Mohammad abu Shayeb (2014) Photon multiplicity distributions for Pb+Pb, Nb & Ni interactions. <i>submitted</i></p>

Dr. Samir Al-Zobaidi



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<http://faculty.mu.edu.sa/salzobaidi/>

Research Interests:

Polymer crystallization, characterization, and processing

Language Skills

Arabic (native), English.

Qualification (Career and University Education)

1987-1991	B. Sc. Degree (Physics)	College of Science / University of Jordan / Jordan
1992-1994	MS. C. Degree (Physics/Laser and modern spectroscopy)	College of Science / Aligahr Muslim University / India First Division
1996-2002	PhD Degree (Materials Science)	College of Materials Science and Engineering / University of Tennessee / USA.

Career

2009-2012	Head of physics department	College of science in al-Zulfi / <i>Majmaah University / Saudi Arabia</i>
2006-recent	Assistant Professor	College of science in al-Zulfi / <i>Majmaah University Saudi Arabia</i>
2004-2006	Researcher	Department of design and mechanical technology / <i>Royal Scientific Society (RSS) / JORDAN</i>
2003-2004	Physics Teacher for IGCSE classes,	<i>Rawdat Al-Ma'aref Schools & College / JORDAN</i>

Short Visits

Publication

Crystallization of ethylene-octene copolymers at high cooling rates. **Wagner, J., Abu-Iqyas, S., Monar, K., and Phillips, P. J.; Polymer (1999), 40(16), 4717-4721.**

The Influence of sequence length distribution on the linear growth of ethylene-octene copolymers. **Annual Technical Conference -Society of Plastics Engineers (1998), 56th (Vol. 2), 1516-1520.**

The effect of adding thiacalix[4]arene compound on polypropylene/clay nanocomposite. **The international conference on Materials Science and its Applications “development and Innovation”**. Feb. 2012. Taif, KSA.

Chain-extended Crystals in Ethylene-Octene Copolymers. **American Physical Society (APS). March meeting 2002. Indianapolis, Indiana. USA**

Phase Diagrams and Phase Transformations in Ethylene-Octene Copolymers. **American Physical Society (APS). March meeting 2002. (Poster session) Indianapolis, Indiana. USA**

The Influence of Regime on Band Spacing in an Ethylene Copolymer. **American Physical Society (APS). March meeting 2002. Indianapolis, Indiana. USA**

Crystallization of Polyethylene and its Octene Copolymers Over a Wide Range of Supercooling. **American Physical Society (APS). March meeting 2001. (Poster session) Portland, OR. USA**

The crystallization mechanism of (metallocene) Ethylene-octene copolymer (LLDPE) as a function of the applied pressure. **American Physical Society (APS). March meeting 2001. Portland, OR. USA**

The Influence of sequence length distribution on the linear growth of ethylene-octene copolymers. **Annual Technical Conference -Society of Plastics Engineers (ANTEC) (1998), Atlanta, GA. USA**

“The effect of pressure and temperature on the mechanical properties of polymer/clay nanocomposites” Grant number SR-S-007-040 funded by SABIC. (2007)

“The effect of adding thiacalixarene compounds on the exfoliation and intercalation of polypropylene / clay nanocomposites”. Grant number SR-S-009-040 funded by SABIC. (2009)

“The effect of the digestive juice enzymes on the biodegradation of polyethylene/montmorillonite nanocomposites after its exposure to UV radiation”. Grant number SR-S-009-001 funded by SABIC, (2009).

Teaching Experience

General Physics I	PHYS 201	College of Science / Zulfi	Majmaah University
General Physics II	PHYS 202	College of Science / Zulfi	Majmaah University
Modern Physics	PHYS 351	College of Science / Zulfi	Majmaah University
Modern Physics Lab.	PHYS 494	College of Science / Zulfi	Majmaah University
Electromagnetism Lab.	PHYS 393	College of Science / Zulfi	Majmaah University
Quantum mechanics I	PHYS 352	College of Science / Zulfi	Majmaah University
Quantum Mechanics II	PHYS 453	College of Science / Zulfi	Majmaah University
Atomic and Molecular Physics	PHYS 454	College of Science / Zulfi	Majmaah University
General Physics for medicine and dentistry students	PHYS 145	College of Medicine / Majmaah	Majmaah University
General Physics for medicine and dentistry students	PHYS 145	College of Dentistry / Zulfi	Majmaah University

Conferences

The international conference on Materials Science and its Applications "development and Innovation".	Taif, KSA	Feb. 2012
American Physical Society (APS).	Indianapolis, Indiana. USA	March meeting 2002
American Physical Society (APS).	Portland, OR. USA	March meeting 2001
Annual Technical Conference -Society of Plastics Engineers (ANTEC)	Atlanta, GA. USA	1998

Training Experience

"DSC, TGA, DMA Rheology" Annual workshop series presented by TA instruments, Knoxville TN 1999.

"Cambridge international diploma for teachers and trainers" Training course, conducted by Cambridge International Examinations at the British Council, Amman 2003

"ISO/IEC 17025 Application and Requirements" Training course conducted by the Quality Assurance Department/ Royal Scientific Society, Amman, October 2004.

"Innovation Promotion and Technology Commercialization Workshop" A workshop presented by the Royal Scientific Society (RSS), Princess Sumaya University for Technology (PSUT) and the Higher Council for Sciences & Technology (HCST). Amman, Jordan 14th and 15th September 2005

A seminar was addressed on the modified atmosphere packaging as part of "The improvement and marketing of the fresh produce" workshop organized by the Central Market-Great Amman Province (Jordan), July 2004.

"Introduction to electronics" A training course aimed to train high school teachers in Al-Zulfi on how to: identify the different circuit components, connect electric circuits, and measure the electric parameters.

Practical Skills

ICDL

Optical Microscope, Electron microscopes, FTIR, Mechanical testing machines.

DSC, X-ray Diffraction.

Assoc. Prof. Dr. Mohamed S. Gaafar



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Research Interests:

Materials synthesis and characterization

Ultrasonic, FTIR, XRD (Radial Distribution Function for amorphous materials), Thermal properties using (DSC & DTA) Raman spectroscopy, Polarized light optical microscope and UV-VIS spectrophotometry.

Nano materials

Language Skills

English (very good reading and writing), Duetsch (little experience in reading and writing) and Arabic (excellent reading and writing).

Qualification (Career and University Education)

B. Sc. Degree (Biophysics)	B. Sc in Biophysics – Faculty of Science – Cairo University (1993) with grade (Very Good) for the average of 4 years.
MS. C. Degree (Biophysics)	M. Sc in Ultrasonic characterization of materials entitled “Ultrasonic Investigation of Some Rubber Blends for Preparing Ultrasonic Phantom” Faculty of Science-Biophysics Department - Cairo University, (2001).
PhD Degree (Physics)	Ph.D in Ultrasonic characterization of materials entitled "Ultrasonic Velocity and Attenuation Measurements for Characterizing Some Tellurite Glasses", Faculty of Science - Physics Department - Menia University, (2005).

Career

(1996)	Demonstrator at Department of Ultrasonic, National Institute for Standards – EGYPT, (1996).
(2001)	Assistant Lecturer at Department of Ultrasonic, National Institute for Standards – EGYPT, (2001).
(2005)	Assistant Professor at Department of Ultrasonic, National Institute for Standards – EGYPT, (2005).
(2010)	Associate Professor at Department of Ultrasonic, National Institute for Standards – EGYPT, (2010).
(2010) - Continue	Associate Professor at Department of Physics , Faculty of Science, Majmaah university , Saudi Arabia, (2010) - Continue.

Experiences Training :

1- Travelled to Denmark in 1999 for five months in Technical University of Denmark – Industrial Acoustics Department -Lyngby – Copenhagen, for training on building setup of thermoacoustic sensor and using this system for calibration of ultrasonic transducers.

- 2- ISO Guide 25, uncertainty, statistics, ultrasound, and in optical measurement.
 3- Travelled to Germany, Darmstadt, in a post doc - DFG fellowship September (2007).
 4- Travelled to Seoul - South Korea 14-29 June 2009 in a training program of National Standards and Precision Measurements.

Short Visits

1999	Technical University of Denmark – Industrial Acoustics Department -Lyngby – Copenhagen
2007	Germany, Darmstadt, in a post doc - DFG fellowship
2009	KRISS - Seoul - South Korea

Publication

- 1- M. A. Sidkey, A. A. Yehia, N. A. Abd El Malak and M. S. Gaafar, "Compatibility Studies on Some Rubber blend Systems by Ultrasonic Techniques", *Materials Chemistry & Physics*, 74, 23-32, (2002).
- 2- M. A. Sidkey, A. A. Yehia, N. A. Abd El Malak and M. S. Gaafar, "Elastic Properties of Some Rubber Blends", *Journal of Pure & Applied Ultrasonics*, 23 (3 & 4), 43-50, (2001).
- 3- M. A. Sidkey and M. S. Gaafar, "Ultrasonic studies on network structure of ternary TeO₂ – WO₃ – K₂O glass system", *Physica B*, 348, 46-55, (2004).
- 4- M. A. Sidkey and M. S. Gaafar, "Ultrasonic relaxation of ternary TeO₂ – WO₃ – K₂O glass system", *Physics and Chemistry of Glasses*, Vol. 45 (1), 7-14, (2004).
- 5- M. S. Gaafar and S. Y. Marzouk, "Study on Some Physical Properties of Er³⁺ doped SiO₂ – Na₂O – B₂O₃ Glasses Using Ultrasonic Velocity and FTIR Spectroscopy", *NORBERT KREIDL MEMORIAL International Course and Conference ICC-06, EGYPT*, (2006).
- 6- M. S. Gaafar and S. Y. Marzouk, "Mechanical and Structural Studies on Sodium Borosilicate Glasses Doped with Er₂O₃ Using Ultrasonic Velocity and FTIR Spectroscopy", *Physica B*, 388, 294, (2007).
- 7- S. Y. Marzouk and M. S. Gaafar, "Ultrasonic study on some borosilicate glasses doped with different transition metal oxides", *Solid State Communications*, 144, 478, (2007).
- 8- M. El-Gazery and M. S. Gaafar, "Modified Reference HS-Block for Directivity Pattern and Resolution Calibration of Contact Probe", *Egypt. J. Meas. Sci. Technol.*, 2, 79-93, (2007).
- 9- M. S. Gaafar, E. A. El-Sayad, S. Y. Marzouk, "Ultrasonic Study of Cu_xAg_{1-x}InTe₂ bulk material", *Archives of Acoustics*, 33 (3), 363-372, (2008).
- 10- M. A. Sidkey; A. Abd El-Moneim; M. S. Gaafar; N. S. Abd El-Aal; L. Abd El-Latif; I. M. Youssef, "Elastic and structural properties of vanadium lithium-borate glasses", *Philosophical Magazine*, 88 (11), 1705-1722, (2008).
- 11- M. S. Gaafar, Y. B. Saddeek and L. Abd El-Latif, "Ultrasonic Studies on Alkali Borate Tungstate Glasses", *Journal of Physics and Chemistry of Solids*, 70 (1), 173, (2009).
- 12- M. S. Gaafar, F. H. El-Batal, M. El-Gazery and S. A. Mansour, "Effect of Doping Different Transition Metals on the Acoustical properties of Alkali Borate Glasses", *Acta Physica Polonica A*, 115 (3), 671, (2009).
- 13- Y. B. Saddeek, M. S. Gaafar, N. S. Abd El-Aal and L. Abd El-Latif, "Structural Analysis of Some Alkali Diborate glasses", *Acta Physica Polonica A*, 116 (2), 211, (2009).
- 14- M. S. Gaafar, N. S. Abd El-Aal, O. W. Gerges and G. El-Amir, "Elastic Properties and Structural Studies on Some Zinc-Borate Glasses derived from Ultrasonic, FT-IR, and X-ray techniques", *Journal of Alloys and Compounds*, 475, 535, (2009).
- 15- M. S. Gaafar; S. Y. Marzouk; H. Mady, "Ultrasonic and FT-IR Studies on Bi₂O₃ – Er₂O₃ – PbO Glasses", *Philosophical Magazine*, 89 (26), 2213-2224, (2009).

-
- 16-M. S. Gaafar, H. A. Afifi and M. M. Mekawy, "Structural studies of some phospho-borate glasses using ultrasonic pulse-echo method, DSC and IR spectroscopy", *Physica B*, 404, 1668, (2009).
- 17- Y. B. Saddeek and M. S. Gaafar, "Physical and structural properties of some bismuth borate glasses", *Materials Chemistry & Physics*, 115, 280, (2009).
- 18-M. S. Gaafar, L. I. Soliman, S. Y. Marzouk, "Ultrasonic Characterization of $\text{Bi}_2(\text{Te}_{1-x}\text{Se}_x)_3$ System", *Archives of Acoustics*, 34 (4), 407-417, (2009).
- 19- N. A. Darwish, M. S. Gaafar, N. Abd El-Aal, A. A. Abd El-Megeed, "Investigation of aging effect on the mechanical properties of silicone rubber using ultrasonic, DMA and FT-IR techniques", *Kautschuk Gummi Kunststoffe (KGK)*, in press.
- 20- H. A. Afifi, N. S. Abd El-Aal, M. S. Gaafar, M. M. Mekawy and E. Ali, "Measurement of viscosity using ultrasonic pulse echoe method and cone-plate viscometer", *International Congress On Ultrasonics – ICU*, Santiago – Chili, January 11-17, (2009).
- 21- A. Abo Kandil and M. S. Gaafar, "Effect of different types of carbon black on the mechanical and acoustic properties of EPDM", *Journal of Applied Polymer Science*, 117(3), 1502, (2010).
- 22- Y. B. Saddeek, M. S. Gaafar, Safaa A. Bashier, "Structural influence of PbO by means of FTIR and acoustics on calcium alumino-borosilicate glass system", *Journal of Non-Crystalline Solids*, 356, 1089, (2010).
- 23- H. E. Nasr, M. S. Gaafar, O. Abdel-Kareem, F. Abd El-Aziz, "Morphological, Rheological and Ultrasonic Characterizations of ECO-Friendly Micro-emulsion Lattices Based on Acrylate Monomers", *Journal of American Science*, 6(9), 897, (2010).
- 24- M.A. Nour, M.S. Gaafar, A. Eid, A.A. El-Ebissy, "The effects of nickel chelate of aminopyridianeanilide combined with modified clay on flame retardance enhancement of polyethylene composites prepared by ultrasonic irradiation", 14th European Conference on Composite Materials, 7-10 June, 2010, Budapest, Hungary
- 25- M. S. Gaafar, Mostafa A. M. Abdeen, S. Y. Marzouk, "Structural investigation and simulation of acoustic properties of some tellurite glasses using artificial intelligence technique", *Journal of Alloys and Compounds*, 509, 3566, (2011).
- 26- **A.A. El-Daly, Farid El-Tantawy, A.E. Hammad, M.S. Gaafar, E.H. El-Mossalamy, A.A. Al-Ghamdi**, "Structural and elastic properties of eutectic Sn–Cu lead-free solder alloy containing small amount of Ag and In", *Journal of Alloys and Compounds*, 509, 7238, (2011).
- 27- G.E. El-Falaky, M.S. Gaafar, N.S. Abd El-Aal, " Ultrasonic relaxation in Zinc-Borate glasses", *Current Applied Physics*, 12, 589, (2012).
- 28- S.Y. Marzouk, L.I. Soliman, M. S. Gaafar, H.A. Zayed, A.H. Serag El-Deen, " Dielectric Properties and Conductivity of Some Alkali Borate Glasses Doped With Cobalt Oxide", *Journal of Applied Sciences Research*, 8, 2325 (2012).
- 29- M. S. Gaafar, S. Y. Marzouk, H. A. Zayed, L. I. Soliman, A. H. Serag El-Deen, "Structural studies and mechanical properties of some borate glasses doped with different alkali and cobalt oxides", *Current Applied Physics*, 13, 152, (2013).
- 30-Y. B. Saddeek, M. S. Gaafar, "Study of the rigidity of semi-conducting vanadate glasses and its importance in the use of coatings", *Bull. Mat. Sci.*, Accepted for publication, In press (2013).
- 31-M. S. Gaafar, Y. A. Azzam, "Acoustic Relaxation of Some Lead Niobium Tellurite Glasses", *Bull. Mat. Sci.*, Under review (2013).
-

- 32-M. S. Gaafar, A. El-Wakil, M. Yousuf, "Study of the effect of radiation and frequency on the electrical properties and ultrasonic properties of polyethylene", *Archives of Applied Science Research*, 5(2), 158, (2013).
- 33-R. El-Mallawany, M. S. Gaafar, Y. A. Azzam, "Prediction of Ultrasonic parameters at low temperatures for Tellurite glasses", *Materials Letters*, Under review (2014).
- 34-R. El-Mallawany, M. S. Gaafar, N. Veeraiah, "Calculated Bulk Modulus and Poisson's Ratio of Some Tellurite Glasses", *Materials Characterization* (2013).
- 35- M. S. Gaafar, "Theoretical determination of ultrasonic velocities of tellurite and Borate glasses using Makishima and Mackenzie model", in preparation (2014).
- 36- N. Elkhoshkhany, R. Abbas, M. S. Gaafar, R. El-Mallawany, A. Abd Almuhsin, "Elastic Moduli of Tellurite Glasses $\text{TeO}_2\text{-ZnO-Nb}_2\text{O}_5\text{-Gd}_2\text{O}_3$ ", *Physica and Chemistry of Solids*, Under Review (2014).
- 37- R. El-Mallawany, M. S. Gaafar, M. A. Abdeen, S. Y. Marzouk, "Simulation of acoustic properties of some tellurite glasses", *Ceramics International*, 40(5), 7389, (2014).
- 38- M. S. Gaafar, " Structural Investigations on Some Cadmium-Borotellurate Glasses Using Ultrasonic, FT-IR and X-ray techniques", *Journal of Alloys and Compounds*, Under Review (2014).

My H. Index is 11

(<http://scholar.google.com.eg/citations?user=toAJWG4AAAAJ&hl=en>)

Teaching Experience

Electronics	B.Sc in Engineering	Faculty of Industrial Educations	EGYPT
Measurement	B.Sc in Engineering	High Institute for Engineering	EGYPT
Sound and Light	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Heat and Properties of Matter	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Health Physics	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Thermodynamics	B.Sc in Physics	Faculty of Science – Suez Canal University	EGYPT
Thermodynamics	B.Sc in Engineering	Basic Sciences Dept. – Arab Academy of Sciences and Technology	EGYPT
General Physics (PHIS-101)	B.Sc in Physics	College of Science – Majmaah University	KSA
Waves and Vibrations	B.Sc in Physics	College of Science – Majmaah University	KSA
Biophysics	B.Sc in Physics	College of Science – Majmaah University	KSA
Health Physics	B.Sc in Physics	College of Science – Majmaah University	KSA
Thermodynamics	B.Sc in Physics	College of Science – Majmaah University	KSA
Modern Physics 1	B.Sc in Physics	College of Science	KSA

Electromagnetism 1	B.Sc in Physics	– Majmaah University College of Science – Majmaah University	KSA
General Physics (104)	B.Sc in Physics	College of Science and Human Educations – Majmaah University	KSA
Solid State Physics 1	B.Sc in Physics	College of Science – Majmaah University	KSA
Solid State Physics 2	B.Sc in Physics	College of Science – Majmaah University	KSA
Solid State Physics Lab.	B.Sc in Physics	College of Science – Majmaah University	KSA
General Physics (104)	B.Sc in Computer Science (Tagseer)	College of Science – Majmaah University	KSA

Conferences

- 1- As an Organizing Committee and audience of the Ultrasonics International '99 joint with 1999 World Congress on Ultrasonics, 29 June – 1 July 1999, held in Technical University of Denmark -Denmark.
- 2- 6th Arab International Conference on Polymer Science and Technology, 1 – 5 September (2001) Ismaeilia – Sharm El-Sheikh, Egypt.
- 3- NORBERT KREIDL MEMORIAL International Course and Conference ICC-06, EGYPT, (2006), Ras Sudr, EGYPT.
- 4- The XXVII conference, Solid State Physics and Materials Science, 24th – 27th, Gulf of Suez, Ein Soukhna, Egypt, (2008).
- 5- International Congress On Ultrasonics – ICU, Santiago – Chili, January 11-17, (2009).
- 6- The XXVIII conference, Solid State Physics and Materials Science, Gulf of Suez, Ein Soukhna, Egypt, (2009).

Thesis Supervised and Reviewed

- 1- Safaa A. Bashier, Supervisor for the PHD thesis entitled "The Role of Radiation in the Structural Investigations of Some Lead Borate Glasses", Biophysics Dept. – Faculty of Science – Cairo University - EGYPT, Awarded - (2010).
- 2- Ghada El-Amir, Supervisor for the PHD thesis entitled "Structural Investigation of Some Zinc Borate Glasses", Biophysics Dept. – Faculty of Science – Cairo University - EGYPT, Awarded - (2010).
- 3- Abeer H. Serag El-Deen, Supervisor for the PHD thesis entitled "Characterization of Some Borate Glasses", Physics Dept. – Women's College for Arts, Science and Education – Ain Shams University - EGYPT, Awarded - (2012).
- 4- Reviewer for the PHD thesis entitled ""Acoustical behaviour of some three component liquid systems and characterization of few glass specimen", Physics Dept. - Annamalai University, INDIA, Awarded (2008).

Conferences/Workshops/Seminar Organized

- 1- Organizing Committee for the Ultrasonics International '99 joint with 1999 World Congress on Ultrasonics, 29 June – 1 July 1999, held in Technical University of Denmark -Denmark.
- 2- Scientific and Quality seminars in College of Sciences, Majmaah University.
- 3- Organizing Committee for Academic Accreditation to ASIIN in College of Sciences,

Memberships of Scientific and Technical Societies

- 1- Life member in Egyptian Society of Solid State, EGYPT.
- 2- Life member in Egyptian Society of Biophysics, EGYPT.
- 3- Reviewer member in the following Elsevier journals;
 - 1- Materials Chemistry and Physics Journal.
 - 2- Journal of Alloys and Compounds
 - 3- Physics and chemistry of Glasses
 - 4- Journal of Non-Crystalline Solids
 - 5- Physica B: Condensed Matter
 - 6- Radiation Instruments
- 4- Editorial Committee of the Marquis Who is Who.
- 5- Editorial board of the journal of Modern Applied Sciences.
- 6- Life member in Egyptian Society of Polymer Sciences and Technology, EGYPT.

Computer Skills

Microsoft Windows, Origin Lab., Microsoft Excel, Microsoft Word, Microsoft Power Point, Adobe Photoshop, Adobe PDF Writer, Basic Language Programming, C & C++ Programming,etc.

Practical Skills

- 1- Ultrasonic Pulse Echo technique.
- 2- FTIR.
- 3- Polarized Light Optical Microscope.
- 4- Semi-crystalline polymers and Liquid crystals.

Project/Reports:

- 1- 1431-1432, two projects have been made in cooperation with Dr. Yasser B. Saddeek funded from Majmaah University.
- 2- 1432-1433, one project has been made in cooperation with Dr. Y. Azzam and funded from Majmaah university.
- 3- 1433-1434, one project is in progress and funded from Majmaah university.

Extra Participation Experiences:

- 1- Participated as a reviewer of the scientific projects for the Islamic development bank – Saudi Arabia, for the year (2009).
- 2- Participated as a reviewer for 11 search works for the Materials Chemistry and Physics journal, Journal of Alloys & Compounds and Physics & Chemistry of Glasses.
- 3- Participate as a member researcher through the ultrasonic dept. – National Institute of Standards in a search project with the Egyptian Academy of Scientific Research and Technology (ASRT) and the Russian - Emanuel Institute.
- 4- Participate as one of the Editorial Committee of the Marquis Who is Who from 2007 to date.
- 5- Participate as a member of the editorial board of the journal of Modern Applied Sciences.
- 6- Have been chosen as one of the top 100 scientists in (2009) selected by the International Biographical Centre (IBC) – Cambridge University – England.

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Research Interests:

Atomic Collision: (ion – surface collision & e-atom/ion collision)

Photonic Crystals: (electromagnetic waves propagations & photonic band gaps)

Language

Arabic, English

Qualification (Career and University Education)

1997-1999	PhD Degree (Atomic Physics)	<u>Internal</u> part at Faculty of science, Beni-Suef, Cairo University
2000-2002		<u>External</u> part at Stockholm University , Sweden
1991-1995	MS. C. Degree (Experimental Physics)	Faculty of Science, Beni-Suef, Cairo University.
1985-1989	B. Sc. Degree (Physics)	Grade “very good “, Faculty of Science, Beni-Suef, Cairo University.

Career

1989-1995	Demonstrator , Physics Department, faculty of science, Beni-Suef, Cairo University
1995-2002	Lecturer , Physics Department, Faculty of Science, Beni-Suef, Cairo University
2002-2011	Assistant Professor, Physics Department, Faculty of Science, Beni-Suef, Cairo University
2011- now	Assistant Professor , Physics Department, Zulfi College of Science, Majmaah university , Saudi Arabia
2012 – now	Associate Professors, Physics Department, Faculty of Science, Beni-Suef, Cairo University

Short Visits

2000-2002	Atomic physics Department, Stockholm University , Sweden
2011-	Assistant Professor, Physics Department, Zulfi College of Science, Majmaah university , Saudi Arabia.

Publication

- 1- H. Hamdy, M. A. K. El-Fayoumi, M. M. Mahdy, H. Hanafy and F. Shahin “ Excitation Function and Polarisation of Optical Radiation Induced by Electron Impact on Helium” *Egypt. J. Phys.* Vol. 27, No. 1-2 pp. 17-29 (1996).
- 2- T. Ali, H. Hanafy and F. Shahin “ Excitation Cross Section of the Calcium $\lambda=468.52$ nm line by Electron Impact” *4th Radiation Conference, Alexandria* 15-19 Nov.(1998).
- 3- H. Hamdy, M. A. K. El-Fayoumi, M. M. Mahdy, H. Hanafy and F. Shahin “ Polarisation Measurements of the Emitted Light Induced by Electron Impact on Zinc Atoms” *Egypt. J. Phys.* Vol. 31, No. 2 pp. 189-196 (2000).
- 4- Gy. Viktor, M. Bjorkhage, H. Hanafy, S. Leontein, A. paal, Z. D. Pesic, E. Lindroth, and R. Schuch " X- ray Emission from Slow Highly Charged Pb Ions Colliding with Metal Surfaces", 20th Summer School and International Symposium on the Physics of Ionized Gases, *Zlatibor, Yugoslavia*, September 4-8, (2000).
- 5- R. Schuch , H. Hanafy, Z. D. Pesic, Gy. Viktor, V. Hoffmann, D.Niemann, and N.Stolterfoht. " Scattering of Highly Charged Ions from Solid Surfaces", 20th Summer School and International Symposium on the Physics of Ionized Gases, *Zlatibor, Yugoslavia, September* 4-8, (2000).
- 6- Z. D. Pesic, H.Hanafy, V. Hoffmann, D.Niemann, R. Schuch, N.Stolterfoht and Gy. Viktor, " Energy and Angular Dependence of Neutralization in Scattering of Highly Charged Argon Ions from a Gold Surface" 20th Summer School and International Symposium on the Physics of Ionized Gases, *Zlatibor, Yugoslavia, September* 4-8, (2000).
- 7- H.Hanafy, M. Bjorkhage, S. Leontein, E. Lindroth, Z. D. Pesic, B. Rosner, J. Weimer, Gy. Viktor, and R. Schuch, “Observation of Internal Dielectronic Excitation with Slow Highly Charged Lead Ions hitting a Surface” *Physica Scripta. T92* , 147-50(2001)
<http://iopscience.iop.org/1402-4896/2001/T92/008> - Google Search
- 8- H. Hanafy, M. Bjorkhage, Z. D. Pesic, , E. Lindroth, Gy. Viktor, A. paal and R. Schuch, “ Relaxation time of Highly Charged Lead ions hitting a Metallic Surface” *Annual Report, Manne Siegabhn Laboratory, Sweden*, 52-54 (2000)
- 9- Z. D. Pesic, J. Anton, S. Atanassova, H. Hanafy, Gy. Viktor, J. Weimer, M. Bjorkhage, S. Leontein and R. Schuch, “ Photon-Photon Coincidence Study in the Relaxation of Highly Charged Lead ions Colliding with Tantalum Foil” *Annual Report, Manne Siegabhn Laboratory, Sweden*, 32-34 (2001).
- 10- M. A. El-Fayoumi, M. Mhahdy and H. Hanafy “Radiative Rates and Lifetimes for Highly Ionized Zinc Ions”, *Sixth Radiation Physics Conference, Assiut, Egypt*, 27-30 Oct. (2002). *Arab J. Nucl. Sci. Appl.* , 36 - part 1 , 415, (2003)
- 11- H. Hanafy, G. Omar, and F. Shahin "Resonant Transfer Excitation Followed by X rays for $Ar^{(8+,11+,13+)}$ Ions with L-Shell Excitation", *XXIII International Conference on Photonic, Electronic and Atomic Collisions. Stockholm University, Sweden*, 23-29 July, (2003).

12- Gy. Viktor, J. Anton, S. Atanassova, A. Enulescu, H. Hanafy, A. Paal, Z. D. Pesic, and R. Schuch "Hollow Atom Relaxation Dynamics in Thin Metal Foils", *XXIII International Conference on Photonic, Electronic and Atomic Collisions. Stockholm University, Sweden, 23-29 July, (2003).*

13- Gy. Viktor, S. Atanassova, M. Bjorkhage, H. Hanafy, S. Leontein, Z. D. Pesic, and R. Schuch "Multiplet Photon Emission from Highly-Charged Pb Ions Interacting with Metal Foils", *XXIII International Conference on Photonic, Electronic and Atomic Collisions. Stockholm University, Sweden, 23-29 July, (2003).*

14- H. Hanafy, G. Omar, and F. Shahin, "Isonuclear Trends of Resonant Transfer Excitation for the Collision of $Ar^{(8+,11+,13+)}$ Ions with L-Shell Excitation" *First International Conference Modern Trends in Physics Research, Cairo Uni., Egypt, 4-9 April (2004).* *AIP, 748, 118-125, (2005).*

15- Hassan Hanafy "Resonant Electron Capture for Be-like Ions with K- and L-shell Excitation" *VII Radiation Physics and Protection Conference, Ismaillia, Egypt, 27-30 Nov., (2004).* *Arab J. Nucl. Sci. Appl. , 36 , 35-43, (2005).*

16- Z. D. Pesic, Gy. Viktor, S. Atanassova, J. Anton, M. Bjorkhage, A. Paal, H. Hanafy and R. Schuch " Relaxation of slow highly charged ions hitting thin metallic foils, *Phys. Rev. A75 , 12903 (2007)*

<https://journals.aps.org/pr/abstract/10.1103/PhysRevA.75.012903>

17- M. Shaban, H. Hanafy , H. Hamdy and F. Shahin, "Optical Excitation Function of the Sr and Sr^+ resonance lines" *VIII Radiation Physics and Protection Conference, Beni Sueif- Fayoum, Egypt, 13-15 Nov., (2006).* *Arab J. Nucl. Sci. Appl., 40 , 405-413 , (2007).*

18- H. Hanafy, G. Omar, and F. Shahin, "Resonant Transfer Excitation Cross sections for Phosphorus Ions with K-shell Excitation" *accepted for publication in World Scientific Conference Proceedings (2008).{in press}.*

19- H. Hanafy and F. Shahin, "Emission of x-Rays through the Recombination in the Collision of F-like Ions with Energetic Free Electrons", *Egyptian J. Solid vol. (31), no (2), 259-267, (2008).*

20- Z. D. Pesi, Gy. Viktor, H. Hanafy, A. Enulescu, and R. Schuch, " Two-photon coincidence studies of highly-charged ion relaxation in solids" *Eur. Phys. J. D 54.*

<http://epjd.epj.org/articles/epjd/abs/2009/10/d09199/d09199.html>

21- Arafa H Aly, and Hassan S. Hanafey" Polarization modes control on the transmittance characteristics of one dimensional photonic crystal", *J. Comput. Theor. Nanosci., 8,1916, 2011.*

<http://www.ingentaconnect.com/content/asp/jctn/2011/00000008/00000010/art00003>

22- Arafa H. Aly, Ehab Abdel-Rahman, Hassan S. Hanafey, " Numerical Studies on Electromagnetic Waves Properties in Metallic-Dielectric Photonic Crystal" , *Journal of Electromagnetic Analysis and Applications, 2011, 3, 465-470.*

<http://www.scirp.org/journal/CTA.aspx?paperID=8339>

23- Arafa H Aly, Ahmed Mehaney, and Hassan S. Hanafey, " Phononic Band Gaps in one Dimensional Mass Spring System", *PIERS Proceedings 1043-1047, March 27-30, Kuala Lumpur, MALAYSIA, 2012.*

<http://piers.org/piersproceedings/piers2012KualalumpurProc.php?start=200>

Teaching Experience

Low Temperature Physics	PHYS 451	College of Science / Zulfi	Majmaah University
General Physics I	PHYS 201	Faculty of Science Beni-Suef	Beni-Suef University

General Physics II	PHYS 202	College of Science / Zulfi	Majmaah University
General Physics II	PHYS 202	Faculty of Science Beni-Suef	Beni-Suef University
Optics	PHYS 323	Faculty of Science Beni-Suef	Beni-Suef University
Optics	PHYS 323	College of Science / Zulfi	Majmaah University
Optics Lab.	PHYS 493	College of Science / Zulfi	Majmaah University
Modern Physics	PHYS 351	Faculty of Science Beni-Suef	Beni-Suef University
Modern Physics Lab.	PHYS 494	College of Science / Zulfi	Majmaah University
Electronic Lab.	PHYS 392	Faculty of Science Beni-Suef	Beni-Suef University
Electronic Physics	PHYS 422	Faculty of Science Beni-Suef	Beni-Suef University
Radiation Physics	PHYS 353	Faculty of Science Beni-Suef	Beni-Suef University
Wave and Vibration	PHYS 321	College of Science / Zulfi	Majmaah University
Atomic and Molecular Physics	PHYS 454	College of Science / Zulfi	Majmaah University
Atomic and Molecular Physics	Phys 454	Faculty of Science Beni-Suef	Beni-Suef University

Conferences

Third International Conference on 'Modern Trend of Physics Research' MTPR-08 Physics Dept., Faculty of Science, Cairo University 6 – 10 April 2008

Training Experience

Training " E- Learning ", Majmaah University , Saudi Arabia

Training " The culture of E-learning" Majmaah University , Saudi Arabia

Training " The Skills of E-learning" Majmaah University , Saudi Arabia

Practical Skills

ICDL (International Computer Driving License)

Ass. Prof. Ibrahim Shaarany Hegy Mahmoud



Assistant Professor
Physics Department
Faculty of Science, Zulfi
Majmaah university

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Office: Room S163

Homepage: <http://faculty.mu.edu.sa/ishaarany>

Research Interests:

Theoretical Physics: (Particle Physic)

Language

Arabic, English

Qualification (Career and University Education)

1990-1993	B. Sc. Degree (Physics)	Grade "Very Good with Honor", Faculty of science, Suez Canal University (Egypt).
1996-1998	MS. C. Degree (Theoretical Physics)	Faculty of Science, Faculty of science, Suez Canal University (Egypt).
2002-2004	PhD Degree (Theoretical Physics)	Faculty of Science, Suez Canal University (Egypt).

Career

1993-1998	Demonstrator at Department of Physics, faculty of Science, Suez Canal University (Egypt).
1998-2004	Assistant Lecturer at Department of Physics, faculty of Science, Suez Canal University (Egypt).
2004 - 2006	Lecture at Department of Physics, faculty of Science, Suez Canal University (Egypt).
2006-2010	Assistant Professor at Faculty of Science and Art, Ben-Gazzy university , Lybia
2011-Now	Assistant Professor at Department of Physics , Faculty of Science, Majmaah university , Saudi Arabia

Publication

24- I.S. Mahmoud and T. Abd El-Azim, "Photoproduction of Lightest Neutral MSSM Higgs Boson", 4th Conference on Nuclear and Particle Physics, 11-15 Oct. 2003, Fayoum, Egypt

I.S. Mahmoud, "Production of Heavy Neutral MSSM Higgs Boson in Photon-Electron Colliders", 4th Conference on Nuclear and Particle Physics, 11-15 Oct. 2003, Fayoum, Egypt

25- I.S. Mahmoud, "The Higgs mass using E-infinity theory"

26- **I.S. Mahmoud**, "*Production of Lightest Neutral MSSM Higgs Boson in Association with Neutralinos pair at Electron Positron Colliders*", prepared for submitting to the European physical journal c.

27- **I.S. Mahmoud and T. Abd El-Azim**, "*Production of Lightest Neutral MSSM Higgs Boson in Association with sLepton pair at Electron Positron Colliders*" prepared for submitting to the *International Review of Physics (IREPHY)* (6) 2012 .

Teaching Experience

Electrodynamics, Electromagnetism, Electricity and Magnetism, Special theory of Relativity, Quantum Mechanics	Suez Canal Universtiy, Egypt
Quantum Mechanics, Mathematical Physics, General Physics, Electricity and Magnetism,	Majmaah University, KSA

Conferences

Egypt France Mathematics Conference	France Embassy	2010
Conference on Topology and its Application	Tanta	2010
Fifth Annual Conference	Cairo	2007

Training Experience

Training Workshop of E-Learning, American University in Egypt, Cairo, Egypt, from 15/11/2005 to 30/12/2005.
Training " E- Learning ", Majmaah University , Saudi Arabia
Training " The culture of E-learning" Majmaah University , Saudi Arabia
Training " The Skills of E-learning" Majmaah University , Saudi Arabia

Practical Skills

Unix, Linux (RedHat, Mandriva), Windows
MatLab, Mathematica, Maple, Origin, Grace, Latex, SWP, Calcchep, FeynArt, FeynCalc.
Latex Writing , Web Design , Dream weaver

Dr. Abdu Idris omer



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Research Interests:

Electronic Systems

Microelectronics

Language Skills

Arabic, English

Qualification (Career and University Education)

1985-1992	B. Sc. Degree (Electronics)	Division Two Upper, Grade "very good ", Faculty of science and Technology, Wad Medani, Gezira University.
1996-1998	MS. C. Degree (Experimental Electronics)	Faculty of Engineering, Universiti Putra Malaysia, Kualau Lumpor, Malaysia.
1998-2002	PhD Degree (Electronic systems Engineering)	Faculty of Engineering, Kuala lumpor, Universiti Putra Malaysia. <u>External part</u> at Stockholm University , Sweden

Career

1993-1995	Demonstrator at Department of Applied Physics Electronics & Instrumentation, faculty of science and Technology, Wad Medani, Gizera University
2002-2009	Assistant Professor at Department of Applied Physics, Electronics & Instrumentation, Faculty of Science and Technology , Wad Medani, Gizera University
2010-	Assistant Professor at Department of Physics, Faculty of Science, Majmaah university , Saudi Arabia

Short Visits

2010-	Visiting Lecturer for Physics Department , Majmaah university
-------	---------------------------------------------------------------

Publication

- 1- Abdu Idris Omer, Taleb M.M. " ARCHITECTURE OF INDUSTRIAL AUTOMATION SYSTEMS", European Scientific Journal January 2014 edition vol.10, No.3 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431,
- 2- Abdu Idris Omer, Taleb M.M." MEASUREMENT SYSTEMS: CHARACTERISTICS AND MODELS", European Scientific Journal March 2014 edition vol.10, No.9 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431.
- 3- Taleb M. Maslamani , Abdu Idris Omer, " DEVELOPMENT OF SOLAR THERMOELECTRIC GENERATOR", European Scientific Journal March 2014 edition vol.10, No.9 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431.
- 4- Sulieman M.S. Zobly and Abdu I. Omer “Development a simulated method for continuous monitoring radiation in the nuclear medicine department (Wad Medani)”, *Gezira j. of eng. & applied sci.*4 (1) :1 – 14 (2009)
- 5- Sulieman M.S. Zobly and Abdu I. Omer “Developing an Induction Heating & hardening System”, *Gezira j. of eng. & applied sci.*3 (2) :38 – 51(2008).
- 6- Yousif A. Abdu I. Omer, “Development of a computerized system for weft insertion based on Dobby device mechanism”, *Gezira j. of eng. & applied sci.*4 (1) :120 – 136 (2009).
- 7- Khalid O. Daffallah, Mutaz M. Fadl Allah, Abdu I. Omer, "Design and Development of a Photovoltaic Water Pumping" *Gezira j. of eng. & applied . sci.* 5 (1) :1 –15 (2010).
- 8- Abdu Idris Omer, "Modeling and Analyzing Electric Circuits", 1st Global Virtual Conference April, 8. - 12. 2013.
- 9- Abdu I. Omer, Mohammed A. Alhadi, "Development of a Microcontroller Based Security Lock for a Car Engine", 1st Global Virtual Conference April, 8. - 12. 2013
- 10- Abdu, I. Omer, Zamri, I. and Rahman W. “Development of Computer-based interfacing board for Chlorpyrifos detection using an Amperometric Biosensor”, Proceedings of the 13th National Biotechnology Seminar 2001, Jointly organized by National Biotechnology Directorate, Ministry of Science, Technology and the Environment, Malaysia, pp. 224-226, from 10-13th Nov. 2001 in the Bayview Beach Resort, Penang, Malaysia.
- 11- Abdu, I. Omer, Bambang S. Suparjo, Rahman W. Wagiran “Multi-channel PC-Based Instrumentation System”. Proceedings of the National Real-time Technology and applications Symposium (RENTAS 2000), pp 99-103. Auditorium MIMOS, MIMOS Berhad, Technology Park, Malaysia, Kuala lumpur, Malaysia. 17-18 Oct. 2000

- 12- Abdu, I. Omer, Bambang S. Suparjo, Rahman W. Wagiran, Zamri, I. “An Amperometric Sensor for the Detection of Organophosphate Pesticide”, Conference on 1999 IEEE National Symposium on Microelectronics, organized by The institution of Electrical and Electronic Engineers Inc. IEEE Malaysian Section Electron Devices Chapter, September 6-7, 1999 The Pan Pacific Resort Pangkor, Malaysia.
- 13- Zamri, I. and Abdu, I. Omer “Biosensor System to Detect Organophosphate Pesticide”, Proceedings of the 9th Malaysian Society of Plant Physiology Conference 1998, Organized by Malaysian Society of Plant Physiology, 1-2 Sep. 1998.
- 14- Zamri, I. Salmah AA, Abdu I. Masnizar M. and Anuar A. “Development of Fiber Optic Biosensor For Detection of Pesticide Residues Using Enzyme as a Bioreceptor”, Proceedings of the 12th National Biotechnology Seminar 2000, Jointly Organized by Molecular Biology BCC at Universiti of Malaya and Biotech Ministry of Science Technology & the Environment, Malaysia, pp. 49-51. From 12-15th Nov. 2000 at Lumut, Perak Darul Ridzuan, Malaysia.

Teaching Experience

General Physics	PHIS101	AlZulfi Science	Majmaah University
General Physics	PHYS202	AlZulfi, Science	Majmaah University
General Physics	PHIS104	AlZulfi Science	Majmaah University
Electronics 1	PHIS324	AlZulfi Science	Majmaah University
Electronics 2	PHIS425	AlZulfi, Science	Majmaah University
Electronics	PHYS422	AlZulfi, Science	Majmaah University
Transistor Circuits	Electronics	Wad Medni, Science and Technology	Sudan
Electronic Design	Electronics	Wad Medni, Science and Technology	Sudan
Microprocessors	Electronics	Wad Medni, Science and Technology	Sudan

Conferences

Universiti Putra Malaysia, World Engineering Congress 1999, Malaysia

Training Experience

Training " National Training course on interfacing in scientific Experiments " , Sudan Atomic Energy Commission, Sudan.

Training " How to use a computer for teaching Engineering Sciences using the MatLab software " National Assembly, Ministry of Higher Education and Scientific Research, Sudan.

Training " National training course on microprocessor-based instruments including operation, troubleshooting and repair " , Sudan Atomic Energy Commission, Sudan.

Practical Skills

Computer assembly, maintenance and troubleshooting course " , Irfan Technologies Sdn, Bhd, kualalumpure, Malaysia.

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Research Interests:

Radio wave

radio – thermography

Language Skills

Arabic , Russian , English

Qualification (Career and University Education)

B. Sc. Degree (Engineer) Tashkent of radio Technical and communication – Uzbekistan

MS. C. Degree (Engineer) Tashkent of radio Technical and communication – Uzbekistan

PhD Degree

(physics) Kharkov State Radio and Technical University –Ukraine

Career

2002-2006 Assistant Lecturer at Department of Physics , faculty of science- Omer Al-Mokhtar University –libya

2007-2010 Assistant Professor at Department of Physics , Faculty of Science, Al-Qassim university , Saudi Arabia

2010- until now Assistant Professor at Department of Physics , Faculty of Science, Majmaah university , Saudi Arabia

Short Visits

Publication

- 1- Dolzhikov V.V, Maslamani T.M., "Small-sized antenna for medical application " Theses of reports of International conference , Kharkov,-1995.- p.111.
- 2- Maslamani T.M." Method of calculation of applicator electromagnetic field in biological medium " , **Radio Electronics and Information Science .-1998.-No.3.-p.4-9 .**
- 3- Maslamani T.M." Calculation of resonator –slot antenna with wire activator of arbitrary form " , **Radio Electronics and Information Science .-1998.-**

No.4.-p.13-16 .

4- Maslamani T.M , " Materials of the 8th International Crimean Conference On SHF_s " –Sevastopol , -1997 .-p.518-520.

5- Sakalo C.N , Maslamani T.M , " Vibrator –slot applicator " **Bulletin of Kharkov University . -1999 . N. 1. P.173-175 .**

6- Abdu Idris Omer ., Taleb M.M., "Architecture of Industrial Automation Systems " European Scientific Journal ., 2014 .,vol.10, N.3 ISSN, .P.273-283 .

7- Taleb M.M, Abdu Idris Omer . " **Development of solar Thermoelectric Generator** " European Scientific Journal ., 2014 .,vol.10, N.9 ISSN, .P.123-134.

8- Abdu Idris Omer, Taleb M.M . " **Measurement Systems: Characteristics and Models** " European Scientific Journal ., 2014 .,vol.10, N.9 ISSN, .P.248-260.

Teaching Experience

General Physic I	PHYS101	Omer Al-Mokhtar University –Libya
General Physic II	PHYS202	Omer Al-Mokhtar University –Libya
Electromagnetism I	PHYS 221	Qassim University & Majmaah University
Electromagnetism II	PHYS321	Qassim University & Majmaah University
Mathematical Physic I	PHYS203	
Mathematical Physic II	PHYS302	Majmaah University
Mathematical Physic III	PHYS303	Majmaah University
Wave and Vibration I	PHYS231	Majmaah University

Conferences

Training Experience

Training "Effective communication skills " ,Omer Al-Mokhtar University

Training "Effective teaching skills", Omer Al-Mokhtar University

Training "Decision-making and problem-solving", Omer Al-Mokhtar University

Training " E- Learning " , Majmaah University , Saudi Arabia

Training " The culture of E-learning" Majmaah University , Saudi Arabia

Training " The Skills of E-learning" Majmaah University , Saudi Arabia

Practical Skills

Microsoft office

Assistant Prof. Dr. Mohammed Hassen Eid Abu-Sei'leek



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Research Interests:

Theoretical Nuclear Structure Computations.
Compressed Finite Nuclei.
Heated Finite Nuclei.
Heavy Ion Collisions.
Astrophysics.
Exchange Meson Theory.
Intermediate Energy Physics.
Thermal Properties of Finite Nuclei.

Language Skills

Arabic, English

Qualification (Career and University Education)

1991-1995	B. Sc. Degree (Physics)	Grade "very good ", Faculty of science, Yarmouk University, Irbid, Jordan.
1996-1999	MS. C. Degree (Medicalphysics)	Grade "very good ", Faculty of science, University of Jordan, Amman, Jordan.
2002-2007	PhD Degree (Nuclear Physics)	Grade "very good ", Faculty of science, University of Jordan, Amman, Jordan.

Career

09/09/2011-	" Assistant Professor" at Majmaah university, Al-Zulfi, Kingdom of Saudi Arabia
14/10/2008-	" Assistant Professor" at Al-Jouf university, Al-Jouf, Skaka, Kingdom of Saudi Arabia
05/09/2011	Arabia
13/2/2000 -	" Instructor" at Hashemite university, Zarqa , Jordan.
14/10/2008	
1/9/1996-	"Teaching Assistant " at University of Jordan, supervising Freshman Lab., radiation and medical Lab.
1/7/1999	
24/9/1996-	" Physics teacher" at public school in Zarqa, Jordan.
13/2/2000	
16/9/ 1995 -	"Technician of physics Lab. " at Al-Isra University , Amman , Jordan .

Publication

Abu-Sei'leek, M., 2011, "Delta Excitation Calculation Studies in Compressed Finite Spherical Nucleus ^{40}Ca ", Nucl. Phys. Rev. 28 (4),416.

Abu-Sei'leek, M., 2011, "Doubly-Magic ^{100}Sn Nucleus with Delta Excitation under Compression" J. Phys. Soc. Jpn. 80 (10) 104201.

Abu-Sei'leek, M., 2011, "Delta Excitation Calculation Studies in the Ground State of the compressed Finite Heavies Doubly-Magic ^{100}Sn Nucleus" Turk. J. Phys.35 , 1.

Abu-Sei'leek, M., 2011, "Resonances-Excitation Studies Investigation of $\Delta(3,3)$ in Ground State of ^{90}Zr Cold Finite Heavy Nuclei at Equilibrium and Under Compression ", Commun. Theor. Phys. 55(01),115.

Abu-Sei'leek, M., 2011, "Hartree-Fock Calculation Studies Investigation of $\Delta(3,3)$ Resonances in the Ground State of Compressed Heavy Spherical Finite Nucleus ^{132}Sn ", International J. of Pure and Applied Phys.,7(1),73.

Abu-Sei'leek, M., 2011, "Investigation of $\Delta(3,3)$ Resonances Effects on the Properties of Neutron-Rich Double Magic Spherical Finite Nucleus, ^{132}Sn , in the Ground State and Under Compression", Pramana- J. Phys. 76 (4),573.

Abu-Sei'leek, M. and Hasan M., 2010," Δ -Resonances in Ground State Properties of Spherical Cold Finite Nucleus at Equilibrium and Under Compression", Commun. Theor. Phys. 54 (2),339.

Abu-Sei'leek, M., 2010, "Delta Excitation in Compressed Neutron-Rich Double Magic Spherical Finite Nucleus ^{132}Sn ", Nucl. Phys. Rev. 27(4),399.

Teaching Experience

E-learning Courses.

Modern Physics.

Introductory Physics.

Nuclear Physics (I).

Nuclear Physics (II).

Neutron Physics.

Radiation Physics.

Classical Mechanics (II).

Quantum Mechanics (I).

Quantum Mechanics (II).

Statistical Physics.

Freshman Laboratories.

Radiation and Medical Laboratory.

Advance Laboratories.

General Physics Courses for Medical, Science, and Engineering Students.

Computational Physics.

The Physics of Vibrations and Waves.

Nuclear Physics Laboratories.

Seminars (Graduate Projects).

Conferences

The Energy & Materials Research Conference	Zurbarán, Badajoz, Spain	2012
Fifth Saudi Science Conference	Makkah, Saudi Arabia	2012

Training Experience

- ICDL Certificated
- The Desire2Learn Community (E-LEARNING)
- A COURSE IN THE INTEGRATION OF TECHNOLOGY IN UNIVERSITY TEACHING
- E-LEARNING CULTURE
- PROFESSIONAL PARTICIPATION OF FILES AND REMOTE PROJECTS
- SKILLS OF E-LEARNING SYSTEMS
- ActivInspire
- BASIC
- PASCAL
- FORTRAN
- MATHEMATICA
- UNIVERSITY EDUCATIONAL TOOLS TECHNOLOGY
- LECTORA (E-LEARNING)
- TEGRITY
- ELLUMINATE
- BLACKBOARD
- E-LEARNING AND THE DESIGN OF ELECTRONIC COURSE ACROSS THE WEB
- E-EDUCATION SYSTEM AND BRIDGES

Practical Skills

ICDL(International Computer Driving License)

Latex Writing.

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Research Interests:

Mechanical Engineering, Biomechanics

Computational and experimental biomechanical analysis of the cardiovascular system and its application to clinical diagnosis and intervention,

Cardiovascular prostheses, and medical devices

Language Skills

Arabic (native), English, French.

Qualification (Career and University Education)

1993-1998	B. Sc. Degree (Physics)	Faculty of science / University of Monastir/ Tunisia
	MS. C. Degree (Rheology of the material, complex materials and industrial fluids)	University Paris 7-denis Diderot / French
2001-2002		
2003-2008	PhD Degree (Mechanical Engineering : Biomechanics)	University Paris 7-denis Diderot / French

Career

2012-recent	Assistant Professor College of science in al-Zulfi / <i>Majmaah University</i> Saudi Arabia
2010-2012	Assistant Professor Higher Institute of Applied Mathematics and Computer sciences/ University of Kairouan/ TUNISIA
2009-2012	Assistant Professor Higher Institute of Medical Technologies of Tunis.
2008-2014	Researcher laboratory of Biophysics / <i>Higher Institute of Medical Technologies of Tunis</i> / TUNISIA
2004-2010	Physics Teacher for MES, Schools & College / TUNISIA
2002-2004	Physics Teacher for MES, Schools & College / FRENCH

Short Visits

Publication

Khaled Ben Abdessalem, Propagation D'onde Dans Un Milieu Viscoélastique : application au système artériel, Presses Académiques Francophones AV Akademikerverlag GmbH & Co. KG,

ISBN 978-3-8381-7335-1(2012)

K.B. Abdessalem and R. B. Salah, Pulse wave velocity in arteries using centre line velocity and radius Effect of terminal impedance and measurement errors", Signals and Telecommunication Journal, Mars 2013.

K.B. Abdessalem, P. Flaud, W. Shtout & R. B. Salah, Non-invasive method for measuring local pulse wave velocity in arteries: part I, Computer Methods in Biomechanics and Biomedical Engineering Volume 15, Supplement 1, September 2012, pages 108-109

K.B. Abdessalem, P. Flaud, W. Shtout & R. B. Salah, Non-invasive method for measuring local pulse wave velocity in arteries: part II, Computer Methods in Biomechanics and Biomedical Engineering Volume 15, Supplement 1, September 2012, pages 63-65

K. B. Abdessalem; S. Mansouri; R. B. Salah; S. B. Abdessalem, New technique of flow rate and pressure separation within the arterial system: Part II, Computer Methods in Biomechanics and Biomedical Engineering, 12: 11-12 (2010).

K. B. Abdessalem; S. Mansouri; R. B. Salah; S. B. Abdessalem, New technique of flow rate and pressure separation within the arterial system: Part I, Computer Methods in Biomechanics and Biomedical Engineering, 12: 9-10 (2010).

K. B. Abdessalem and S.B. Abdessalem, New technique of characteristic impedance determination within the arterial system: Part II, O. Dössel and W C. Schlegel (Eds.): WC 2009, IFMBE Proceedings 25/IV, pp. 1361–1364, (2009).

K. B. Abdessalem and S. B. Abdessalem, New technique of characteristic impedance determination within the arterial system: Part I. O. Dössel and W C. Schlegel (Eds.): WC 2009, IFMBE Proceedings 25/IV, pp. 1953–1956, 2009

K. B. Abdessalem and S. B. Abdessalem, Effect of positioning measurement probes on the determination of propagation coefficient using two-point methods, Computer Methods in Biomechanics and Biomedical Engineering, 12: 19-22 (2009).

K. B. Abdessalem, W. Sahtout, P. Flaud, M. H. Gazah and Z. Fakhfakh, Numerical simulation of non-invasive determination of the propagation coefficient in arterial system using two measurements sites, The European Physical Journal Applied Physics 40: 211-219(2007).

K. B. Abdessalem and S. B. Abdessalem, New technique of flow rate and pressure separation within the arterial system, American Society of Biomechanics Annual Conference—August 26–29, (2009).

S. Mansouri, I. Maaoui, R. Ben Salah, H Mahjoubi, A Mami, K. B. Abdessalem and S.B. Abdessalem, FPGA-Based derivative module for plethysmographic signal, Medical Physics and Biomedical Engineering World Congress - the triennial scientific meeting of the IUPESM-Munich, Germany, 7 – 12 September, 2009.

K. B. Abdessalem, W. Sahtout, P. Flaud, Z. Fakhfakh, New method for determining the wave speed in the arterial system, 2nd International Francophone Congress for Advanced Mechanics, Aleppo-Syria, 14-16 May, 2007.

K. B. Abdessalem, W. Sahtout, P. Flaud and Z. Fakhfakh, Non-invasive determination of the position of obstruction in arterial system, Third International Conference on Advances in Mechanical Engineering and Mechanics, ICAMEM 06, Hammamet, 17,19 Dec. 2006.

K. B. Abdessalem, W. Sahtout, P. Flaud, Z. Fakhfakh, 2006, New noninvasive method of determination of wave speed and attenuation in arterial system, Third International Conference on Advances in Mechanical Engineering and Mechanics, ICAMEM 06, Hammamet, 17,19 Dec. 2006.

K. B. Abdessalem, Sahtout W, and Flaud P, Fakhfakh Z, Non-invasive determination of the propagation coefficient from measurements of velocity in three sections of an arterial trunk, 5th National Conference of flow and Transfers, Monastir, 19-21 March 2006.

Teaching Experience

General Physics I	PHYS 201	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
General Physics II	PHYS 202	College of Science / Zulfi	Majmaah University
Health Physics	PHYS 334	College of Science / Zulfi	Majmaah University
Vibration and Waves I	PHYS 231	College of Science / Zulfi	Majmaah University
Electromagnetism Lab.	PHYS 392	College of Science / Zulfi	Majmaah University
Basic Statistical Mechanics and Low Temperature physics	PHYS 473	College of Science / Zulfi	Majmaah University
Vibration and Waves II	PHYS 332	College of Science / Zulfi	Majmaah University
Mathematical Physics II	PHYS 302	College of Science / Zulfi	Majmaah University
Geometrical Optics	PHYS 332	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
Optics Lab	PHYS 393	College of Science / Zulfi	Majmaah University
Thermodynamics	PHYS 241	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
Classical Mechanics	PHYS 211	Higher Institute of Applied Mathematics and Computer sciences	Kairouan University
Biophysics	PHYS 361	College of Science / Zulfi	Majmaah University
Bio-rheology, cardiovascular biomechanics		Higher Institute of Medical Technologies	University Tunis
Fluid mechanics Modeling and numerical methods for physics		Higher Institute of Medical Technologies	University Tunis
Computational physics	PHYS 405	Higher Institute of Medical Technologies	University Tunis
General Physics Courses for Medical, Science, and Engineering .Students	PHYS 101	College of Engineering/ Zulfi	Majmaah University

Conferences

Training Experience

Activinspire

E-education system and bridges

Basic

Integration of technology in university teaching

Skills of e-learning systems

Practical Skills

Computational physics (finite volume, finite elements, spectral methods)

Ultrasound, Laser-Doppler, particle imaging velocimetry

Modeling and numerical simulation, COMSOL Multiphysics, MATLAB,

Linux, Windows XP, Adobe PhotoShop, Adobe Acrobat, Macromedia Dream Weaver,

Macromedia Flash MX, Microsoft PowerPoint, Microsoft Excel.

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Research Interests:

Low energy Nuclear Reactions
Synthesis and Structure of Superheavy Nuclei
Heavy ion Interactions

Language Skills

Arabic, English

Qualification (Career and University Education)

2000-2004	B. Sc. Degree (Physics)	Grade "Excellent with Distinction", Faculty of Science, Cairo University
2005-2007	MS. C. Degree (Theoretical Nuclear Physics)	Faculty of Science, Cairo University
2007-2010	PhD Degree (Theoretical Nuclear Physics)	Faculty of Science, Cairo University

Career

2004-2007	Demonstrator at Department of Physics, Faculty of Science, Cairo University
2007-2010	Assistant Lecturer at Department of Physics, Faculty of Science, Cairo University
2010 – 2013	Lecture at Department of Physics, Faculty of Science, Cairo University
2013-Present	Assistant Professor at Department of Physics , Faculty of Science, Majmaah University , Saudi Arabia

Short Visits

2011	Scholar at Joint Institute of Nuclear Reactions, Dubna, Moscow Oblast, Russia
2013	Scholar at Joint Institute of Nuclear Reactions, Dubna, Moscow Oblast, Russia

Publication

9. M. Ismail, A. Y. Ellithi, M. M. Botros, and **A. Adel**, "Systematics of α -decay half-lives around shell closures", *Physical Review C* 81, 024602 (2010).
10. M. Ismail, A. Y. Ellithi, M. M. Botros, and **A. Adel**, "Binding energies of even-even superheavy nuclei in a semi-microscopic approach", *Physics of Atomic Nuclei* 73, 1660 (2010).

11. M. Ismail, A. Y. Ellithi, H. Elgebaly, M. M. Botros, and **A. Adel**, "On the sharp surface model for coulomb and nuclear interactions between two deformed nuclei", *International Journal of Modern Physics E* 19, 371 (2010).
12. M. Ismail and **A. Adel**, "Orientation dependent behavior of the Coulomb barrier parameters for deformed-deformed nuclei", *Nuclear Physics A* 859, 1 (2011).
13. M. Ismail and **A. Adel**, "Azimuthal angle dependence of the Coulomb barrier parameters for the interaction between two deformed nuclei", *Physical Review C* 84, 034610 (2011).
14. M. Ismail and **A. Adel**, "Shell corrections for heavy and superheavy nuclei", *International Journal of Modern Physics E*, vol. 21, 1250062 (2012).
15. V. A. Rachkov, **A. Adel**, A. V. Karpov, A. S. Denikin, and V. I. Zagrebaev, "Effect of neutron transfer in the fusion process near and below the Coulomb barrier", *AIP Conference Proceedings*, vol. 1491, pp. 381-382, 2012.
16. **A. Adel**, V. A. Rachkov, A. V. Karpov, A. S. Denikin, M. Ismail, W. M. Seif, and A. Y. Ellithi, "Effect of neutron rearrangement on subbarrier fusion reactions", *Nuclear Physics A*, 876, 119 (2012).
17. M. Ismail and **A. Adel**, "Correlation between α -particle preformation probability and the energy levels of parent nuclei", *Physical Review C* 86, 014616 (2012).
18. **V. A. Rachkov, A. Adel, A. V. Karpov, A. S. Denikin, and V. I. Zagrebaev**, "Effect of neutron transfer channels in fusion reactions with weakly bound nuclei at subbarrier energies", *Bulletin of the Russian Academy of Sciences: Physics*, vol. 77, no. 4, pp. 411-415, 2013.
19. **M. Ismail, and A. Adel**, "Effect of energy level sequences and neutron-proton interaction on α -particle preformation probability", *Nuclear Physics A*, vol. 912, pp. 18-30, 2013.
20. **M. Ismail, and A. Adel**, "Prediction of nuclear spin based on the behavior of α -particle preformation probability", *Physical Review C*, vol. 88, issue 5, pp. 054604, 2013.
21. **M. Ismail, and A. Adel**, "Effect of deformation parameters, Q value, and finite-range NN force on α -particle preformation probability", *Physical Review C*, vol. 89, pp. 034617, 2014.

Teaching Experience

General Physics	Phys. 101	Cairo University
Statistical Mechanics	Phys. 351	Cairo University
Classical Mechanics	Phys. 221 & Phys. 222	Cairo University
Quantum Mechanics	Phys. 321	Cairo University
Computational Nuclear Physics	Phys. 427	Cairo University
General Physics	Phys. 128	Majmaah University
Nuclear Physics I	Phys. 481	Majmaah University

Conferences

Attended the "International Workshop on "Nuclear Science and Education"	Cairo University	2009
Italian Scientific Seminar Series in Egypt "Present Status of Research in Controlled Thermonuclear Fusion" by Dr. Francesco Romanelli.	Cairo University	2010

Training Experience

Training " The Credit Hour System", Cairo University, Egypt
Training "Competing for Research Funds", Cairo University, Egypt
Training " Scientific Publication", Cairo University, Egypt

Practical Skills

Programming Using "Fortran and C++"
Mathematica
Latex Writing

Dr. Sajad Hussain



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Research Interests:

Solar cells,

Energy harvesting nanomaterials

Growth and characterization of Functional Nanomaterials

Language Skills

English, Urdu, Chinese

Qualification (Career and University Education)

2000-2004	B. Sc. Degree (Physics)	Punjab University Pakistan
2005-2007	MS. C. Degree (Physics)	University of Agriculture Faisalabad, Pakistan
2008-2012	PhD Degree (Materials Physics and Chemistry)	Beijing Institute of Technology, China

Career

July, 2012- Feb, 2013	Assistant Professor, Department of Physics, Government College University, Faisalabad, Pakistan
Mar, 2013- July 2013	Assistant Professor, Department of Physics, COMSATS Institute of Information Technology, Islamabad, Pakistan
Oct, 2013-to date	Assistant Professor, Department of Physics, Faculty of Science, Majmaah university, Saudi Arabia

Short Visits

Publication

S. Hussain, C. Cao, G. Nabi, W. S. Khan, Z. Usman, T. Mahmood. Effect of Electrodeposition and annealing of ZnO on optical and photovoltaic properties of the p-Cu₂O/n-ZnO solar cells. *Electrochimica Acta* 56, 2011, 8342-8346

S. Hussain, C. Cao, W. S. Khan, G. Nabi, Z. Chen, Z. Ali, F. K Butt. Fabrication and electrical characterization of p-Cu₂O/n-ZnO heterojunction. *J. Nanosci. Nanotechnol.* 12, 2012 1967-1971

S. Hussain, C. Cao, W. S. Khan, G. Nabi, Z. Usman, F. K Butt, Z. Ali, T. Mahmood. Fabrication and photovoltaic characteristics of Cu₂O/TiO₂ thin film heterojunction solar cell. *Thin Solid films* 522 2012 430-434,

S. Hussain, C. Cao, W. S. Khan, G. Nabi, Z. Usman, F. K Butt, Z. Ali, T. Mahmood.
.Preparation of ZnO novel nanostructures by facile hydrothermal route, their PL and PEC
properties. J. Current nanosci. 8 (3) 2012 414-416

Teaching Experience

Basic Physics	Phys 128	G.C Uni. Faisalabad, Pakistan
Thermal Physics Lab	Phys 291	G.C Uni. Faisalabad, Pakistan
Classical Mechanics	Phys 211	Majmaah university

Conferences

Training Experience

Practical Skills

RF and DC sputtering
Sol-Gel and hydrothermal
CVD
Electrodeposition station

a) Scholarship Names

م	Name	Rink	Field	Position Study	E-mail
1)	Mansour Elhabardi	Lecture	Solid State	England	m.alhabradi@mu.edu.sa
2)	Mohamed Elbadah	Admisrator	Physics	Canada	@mu.edu.sa
3)	Ahmed Elanzei	Admnstrator	Physics	USA	@mu.edu.sa

b) Administrator Names

م	Name	Rink	Field	Position Study	E-mail
1)	Majed Elowaid	Administrator	Physics		m.alouaid@mu.edu.sa
2)	Abdulrzag Aldweesh	Administrator	Physics		as.aldweesh@mu.edu.sa
3)	Nader Alhabradi	Administrator	Physics		n.alhabradi@mu.edu.sa

c) Technician Names

M	Name	Rink	Field	work	E-mail
1)	Ahmed Alwazzan	B. Sc.	Physics	Zulfi College	a.alwazzan@mu.edu.sa

e) Secretary Names

M	Name	=	=	work	E-mail
1)	Abdalla Alsweeket			Zulfi College	a.alsweeket@mu.edu.sa

STATISTICS INFORMATION

Occupation	Number	Non-Saudi	Saudi
Professor	2	2	-
Associate Professor	1	1	-
Assistant professor	11	10	1
Lecturer	-	-	-
Demonstrator	3	-	3
Scholarship	3	-	3
Total		13	7

Illustration shows the percentage of Saudi to non-Saudis to the functional framework

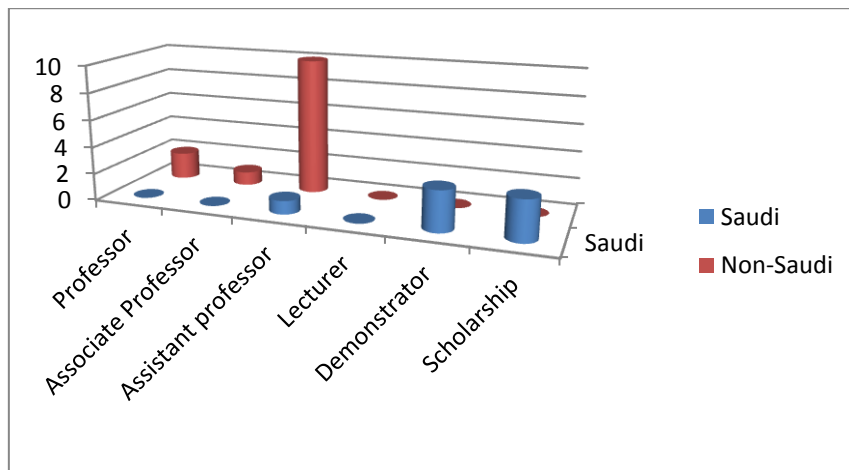


Illustration shows the overall non-Saudi Arabia

The proportion of non-Saudi Arabia 34.6%

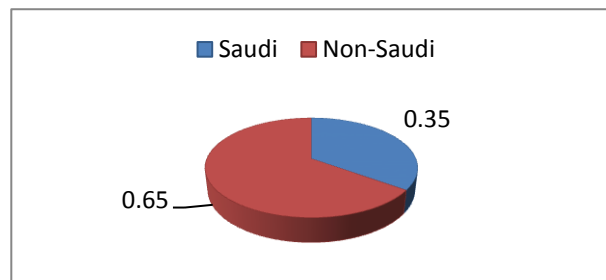
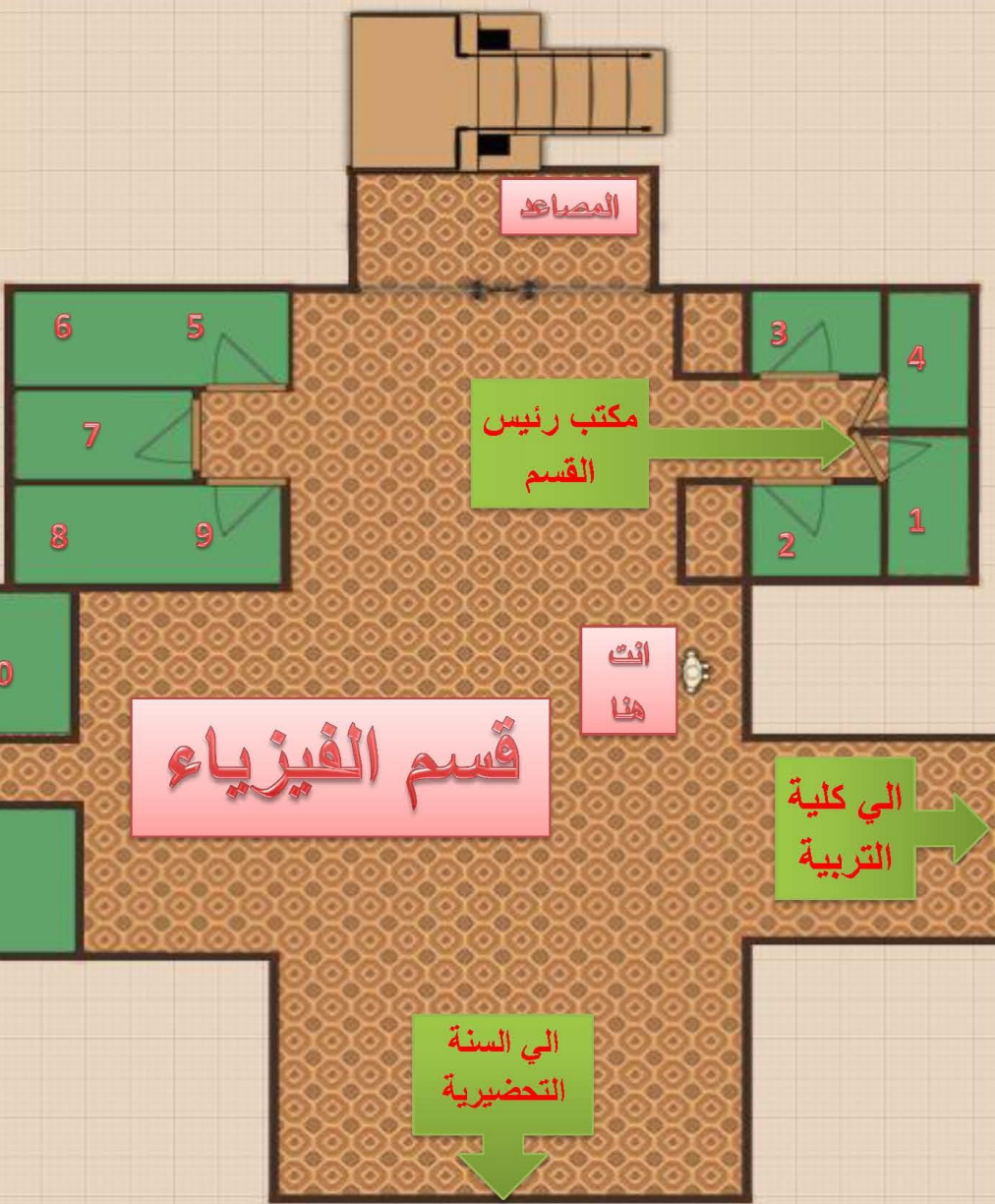


Illustration shows the ratio of faculty staff to students

The Ratio is 1: 10.

1. د. ثامر الحربي
2. د. ابراهيم شعراني
3. د. سامر الزبيدي
4. سكرتير القسم
5. د. محمد ابو صعيليك
6. د. خالد عبدالسلام
7. د.حسن حنفي
8. د.سجاد حسين
9. د.احمد عادل
10. د. عبد الماجد عبدالمجيد
11. د. محمد جعفر
12. د. طالب المسلماني
13. د. محمد زايد
14. د. محمد ابو شايب
15. د. عبده ادريس



تصميم واعداد
الدكتور/ ابراهيم شعراني حجي