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Designation	Associate P	rofessor		
Department	Physics	Physics		
Faculty	Arts and Ba	Arts and Basic Sciences		
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Qualification				

Qualification

Year	Degree/Certificate	Name of the Institute/ University	Field of study
2016 PhD		The Library's University of Dalasses	Physics (Magnetic
2010	2016PhDThe Islamia University of Bahawa		Materials)
2004	MC/MDL:1	The Islamic University of Dehewalnum	Physics (Medical
2004	2004MS/ MPhilThe Islamia University of Bahawalpur		Physics)
2000	Graduation	The Islamia University of Bahawalpur	Physics (Digital
2000		The Islamia Oniversity of Banawaipur	Electronics)

Publications in HEC Recognized journals

S. No	Title of Paper	Name of Journal	National/ International	Publication date	
1.	Dielectric, Impedance and modulus spectroscopic studies of Co _{0.3} Cd _{0.7} Zn _{1.5x} Fe _{2-x} O ₄ nanoparticles	Applied Physics A (Impact factor = 1.78)	International	2019	
2.	Characterization of Zirconium Substituted Cobalt Zinc Ferrites Synthesized via Co- Precipitation Technique	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.84)	International	2019	
3.	Effects of bismuth on structural and dielectric properties of cobalt-cadmium spinel ferrites fabricatedvia micro-emulsion route	Chinese Physics B (Impact factor = 1.436)	International	2019	
4.	Role of Praseodymium and Neodymium on lithium ferrites and smart technological application	Results in Physics (Impact factor = 2.08)	International	2019	
5.	Structural, magnetic and dielectric properties of Ni-Co	Physica B: Condensed Matter (Impact factor = 1.43)	International	2019	

	doped BiFeO3 multiferroics			
	synthesized via micro- emulsion route			
	Mechanism of the Effect of			
6.	Electron Beam Melting on the Distribution of Oxygen, Nitrogen, and Carbon in Silicon	International Journal of Materials Research (Impact factor = 0.87)	International	2019
7.	A Simulation Model Approach to Analysis of High Breakdown Voltage in Normally-Off 4h-SiC Vertical Junction Field Effect Transistor	Journal of Ovonic Research (Impact factor = 0.74)	International	2018
8.	Dose verification of volumetric- modulated arc therapy using one- dimensional and two-dimensional dosimeters	Journal of Radiotherapy in Practice ESCI	International	2018
9.	Thermogravimetric analysis, optical and dielectric properties of newly developed LiNi _{0.5} Pr _x Fe _{2-x} O ₄ nanocrytalline ferrites	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.84)	International	2018
10.	Intensity modulated radiation therapy: A review of current practice and future outlooks	Journal of Radiation Research and Applied Sciences ESCI	International	2018
11.	Quality Assurance of Volumetric-Modulated Arc Therapy Head and Neck Cancer Treatment Using Presage® Dosimeter	Journal of Radiotherapy in Practice ESCI	International	2018
12.	Design and Optical Modeling of a Low-Profile Stationary Concentrating Solar Collector for Medium Temperature Heat Supply	Journal of Telecommunication, Electronic and Computer Engineering Scopus index	International	2018
13.	Structural, Morphological and optical investigations of silver nanoparticles synthesized by sol-gel auto combustion Method	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.84)	International	2018
14.	Dosimetric, Radiobiological and Secondary Cancer Risk Evaluation in Head-and-Neck Three-Dimensional Conformal Radiation Therapy, Intensity- Modulated Radiation Therapy, and Volumetric Modulated Arc Therapy: A Phantom Study	Journal of Medical Physics ESCI	International	2018

15.	Removal of SiC from Silicon After Electron Beam Melting Technique on Industrial Scale	Silicon (Impact factor = 1.2)	International	2018
16.	Solid State Synthesis and Characterization of Spintronics Material Hg _{0.8} Cd _{0.2} Te	Journal of applied & Emerging Sciences	National	2018
17.	Measurement of ambient gamma radiation levels at different localities of Quetta, Pakistan	Interciencia Journal (Impact factor = 0.28)	International	2017
18.	Improvement of solar cell performance after oxygen removal by electron beam melting	Silicon (Impact factor = 1.2)	International	2017
19.	Developmental and Reproductive Toxicity of Hydrothermally Synthesized Zirconium dioxide Nanoparticles	Interciencia Journal (Impact factor = 0.28)	International	2017
20.	New LiCo _{0.5} $Pr_xFe_{2-x}O_4$ nanoferrites: Prepared via low cost technique for high densitystorage application	Ceramics International (Impact factor = 2.98)	International	2017
21.	Evaluation and comparison of dc resistivity of NiZr _x Co _x Fe ₂₋ _{2x} O ₄ , Ni _{0.5} Sn _{0.5} Co _x Mn _x Fe _{2-2x} O ₄ , Mg _{1-x} Ca _x Ni _y Fe _{2-y} O ₄ and Mg ₁₋ _x Ni _x Co _y Fe ₂₋ _y O ₄ nanocrytalline materials	Materials Research Express(Impact factor = 1.06)	International	2017
22.	New LiNi _{0.5} $Pr_xFe_{2-x}O_4$ Nanocrystallites: Synthesis Via Low Cost Route for Fabrication of Smart Advanced Technological Devices	Ceramics International (Impact factor = 2.98)	International	2017
23.	Redistribution of carbon from silicon by electron beam melting	Digest Journal of Nanomaterials and Biostructures (Impact factor = 0.84)	International	2017
24.	A comparative study of 16- frame and 8-frame gated SPECT imaging for determination of left ventricular volumes and ejection fraction	Science International (Impact factor = 0.75)	International	2017
25.	Morphological and magnetic behavior of neodymium doped	Digest Journal of Nanomaterials and	International	2017

	LiNi _{0.5} Fe ₂ O ₄ nanocrystalline	Biostructures		
	ferrites preparedvia micro-	(Impact factor $= 0.84$)		
	emulsion technique			
	The Effect Of Rare Earth			
	Dy ³⁺ ions on Structural,	Digest Journal of		
	Dielectric and Electrical	Nanomaterials and		2015
26.	Behavior Of Ni _{0.4} Co _{0.6} Dy _y Fe ₂₋	Biostructures	International	2017
	_y O ₄ Nano-FerritesSynthesized	(Impact factor $= 0.84$)		
	By Wet Chemical Approach			
	A Diagonosing Case of the			
27.	Eye and Orbital Tumor	Science International	International	2016
	through B-Scan	(Impact factor $= 0.75$)		_010
	Enhanced Dielectric and	Digest Journal of		
	Photocatalytic Behaviour of	Nanomaterials and		
28.	Dy-Co Co-Doped Multiferroic	Biostructures	International	2016
	BiFeO ₃ Nanoparticles	(Impact factor $= 0.84$)		
	Study of Current-voltage	(impact factor = 0.04)		
	Characteristic Using Deep			
29.		Journal of applied &	National	2016
29.	Level Transient Spectroscopy	Emerging Sciences	Inational	2016
	Technique of Schottky Diode			
	Made of SiC			
30.	Structural and Electromagnetic Studies of Ni _{0.7} Zn _{0.3} Ho _{2x} Fe _{2-2x} O ₄	Ceramics International	International	2016
50.	Ferrites	(Impact factor $= 2.98$)	International	2010
	Structural, Morphological and	Optoelectronics and Advanced		
31.	Electrical Properties of Heat	Materials	International	2015
011	Treated CaHPO ₄ Biomaterials	(Impact factor $= 0.47$)		2010
	Impacts of Neodymium on			
	Structural, Spectral and Dielectric			
32.	Properties of LiNi _{0.5} Fe ₂ O ₄	Physica E	International	2015
52.	Nanocrystalline Ferrites	(Impact factor $= 2.22$)	International	2013
	Fabricated Via Micro-Emulsion			
	Technique			
	Rare Earth Tb ₃₊ Doped LaFeO ₃	Commiss Internetional		
33.	Nanoparticles: New Materials for High Frequency Devices	Ceramics International (Impact factor = 2.98)	International	2015
	Fabrication	$(111) \mu \alpha (111) (111) - 2.98)$		
	Structural and Electromagnetic			
	Behavior Evaluation of Nd-	Journal of Alloys and		
34.	Doped Lithium–Cobalt	Compounds (Impact factor =	International	2015
	Nanocrystals for Recording	3.13)		
	Media Applications			
	La _{1-x} Eu _x FeO ₃ Nanoparticles:	Journal of Alloys and		
35.	Fabrication Via Micro-Emulsion	Compounds (Impact factor =	International	2015
55.	Route for High Frequency	3.13)	memanonal	2013
	Devices Applications			
	Characterization of Ingan by	Arabian Journal for Science and		
36.	Means of I–V Measurements of	Engineering	International	2015
	Respective Light-Emitting Diode	$\frac{de}{(Impact factor = 0.86)}$		
	(LED) by DLTS A Comparative Study of Crop			
37.	Classification by Using	Sindh Univ. Res. Jour	National	2015
57.	Radiometric and Photographic	Sman Chry, Res. Jour	1 utional	2013
L	radiometrie and r notographie			

	Data				
38.	Conformal Coating of Cobalt- Nickel Layered Double Hydroxides Nanoflakes on Carbon Fibers for High- Performance Electrochemical Energy Storage Supercapacitor Devices	Electrochimica Acta (Impact factor = 4.79)		International	2014
39.	Characterization of ZnO by mean of I-V measurement of respective schottky diode by DLTS	Journal of applied and Emergi Sciences		National	2013
40.	Characterization of ZnO by means of C-V measurement of respective schottky diode by DLTS	Journal of applied and Emergi Sciences	-	National	2013
41.	Characterization of SiC by means of C-V measurement of respective schottky diode by DLTS	Journal of applied and Emergi Sciences	-	National	2012
42.	Characterization of InGaN by means of C-V measurement of respective Light Emitting Diode (LED) by DLTS	Journal of applied and Emergi Sciences	-	National	2011
		Total Impact factor =			
Pape	r Presented	·			
S. No	Title of Paper	Name of Conference		onal/ mational	Date
1	Comparison of rare earth cation doping for structural and magnetic properties	2nd Conference on Frontiers of Nanoscience and Nanotechnology, PINSTECH, Islamabad	Nati	onal	September 2015.
2	Impacts of rare earth cation on the structure, dielectric and magnetic properties of ferrites', Presented poster in conference	nanomagnetism 2015 at NCP, Islamabad.	Inter	rnational	February 2015
3	Synthesis of Starch Coated Iron Oxide Nanoparticles by Co- precipitation, Pakistan.	International Scientific Spring 2013, Hosted by ICTP, Italy and Organized by National Centre of Physics, Islamabad	International		March 2013
4	Comparison of IMRT vs IMPT	11th Shaukat Khanum Cancer Symposium Costs of Cure, Lahore, Pakistan.	National		November 2012
Book	s Authored/ Edited	1			
S. No	Name of book		Publ	isher	ISBN

Wor	k Experi	ence			
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held	
1	2019	To date	Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS) Quetta-Pakistan	Associate Professor	
2	2009	2019	Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS) Quetta-Pakistan	Assistant Professor	
3	2006	2009	Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS) Quetta-Pakistan	Lecturer	
4	2004	2006	Govt. College of Technology (GCT)Bahawalpur-Pakistan	Lecturer	
5	2002	2004	Bahawalpur Study Center (Rays College), Allama Iqbal Open University Islamabad- Pakistan	Lecturer	
6	2000	2002	Govt. College of Technology (GCT)Bahawalpur-Pakistan	Lecturer	
Area	a of specia	alization	Material Science		
Expertise			Medical Physics, Magnetic materials, Nanotechnology, dielectrics ceran		
HEC Approved supervisor		ed	Yes		
If Yes, provide HEC URL		le HEC URL	https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS- EPORTAL.aspx ID#19184		
Rese	earch gra	nts/ Projects			
٨dd	itional In	formation	·		

Additional Information

I did my PhD work on the nano-ferrite materials and its analysis. I submitted my thesis entitled "Impacts of Rare Earth Cations on the Properties of Lithium Based Spinel Ferrites". Where substitution of rare earth metals praseodymium and neodymium on lithium ferrites was carried out. The impacts of these rare earth metals on thermal, structural, magnetic and dielectric properties were studies. The possible application of these ferrites for high frequency devices and electromagnetic application were studied

I joined Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS) as lecture in September 2006. This university is newly chartered by government of Pakistan. Here establishment of lab is necessary for B.S. Physics program and applied physics for engineering classes like Petroleum & Gas engineering, Electronics engineering, Computer engineering, Textile engineering. I prepare a **PC-1** report for this purpose to HEC through BUITEMS. This grant of about **39 Million** was approved and lab equipments have been purchased under my supervision. The syllabus was not yet decided; I conducted the 1st Board of study to finalize the syllabus as coordinator. Also conduct practical in the subjects relating to physics. The whole work was under my control. My research work was paused due to these activities.

Being the Faculty Member and working as a Lecturer in the Basic Sciences Department college of

technology Bahawalpur, Pakistan my responsibilities are:

- To develop and prepare syllabus and lesson plans based on course outlines for Diploma level to Graduation level classes.
- To establish a system of student evaluation and assessment to ensure high standard of academic performance and credibility for Mechanical, Electrical, Electronics, Civil, Telecommunication, Computer, and Auto &Forming Technologies.
- To conduct lectures according to the specified schedules.
- To plan, develop and implement practical activities to support the academic and curriculum development.

Working as a **Member** of the Graduate Studies, all the Technologies in college of Technology Pakistan, my responsibilities were :

- To assess the graduate (Mechanical production, civil communication, Electrical and Electronics) students.
- To help Mechanical Department, in organizing the curriculum.
- In addition to teach computer science and information technology to graduation level students at the study center Allama Iqbal Open University, my additional responsibilities were to develop and prepare lesson plans of the subjects like, Basic Electronics, Electricity and Magnetism, and Digital Logic Design.