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Designation	Professor/ Chairman Department of physics			
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Faculty	Faculty of Basic Sciences			
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Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2012-2015	PhD	Dalian University of technology- China	Material physics & Chemistry	
2004-2006	M. Phil Physics	The Islamia University of Bahawalpur-PK	Spintronic Materials	
2000-2002	M.Sc Physics	The Islamia University of Bahawalpur-PK	Digital Electronics	
Publications in HEC/ SCI Recognized journals				
S. No	Title of Paper	Name of Journal	Research field / Area	Publication date
1	Evaluation on electrical resistivity of silicon materials after electron beam melting	Bulletin of Materials Science	Materials Science / Photovoltaic	38(5) (2015) 1429-1433
2	Characterization of InGaN by Means of I-V Measurements of Respective Light-Emitting Diode (LED) by DLTS	Arabian Journal for Science and Engineering	Materials Science / semiconductor	40(1) (2015): 263-268
3	Formation mechanism of hollow silicon ingot induced by fountain effect	Renewable Energy	Materials Science / Photovoltaic	77 (2015) 463-466
4	Segregation and evaporation behaviors of aluminum and calcium in silicon during solidification process induced by electron beam	Semiconductor Science and Technology	Materials Science / Photovoltaic	30(3) (2015) 035013

5	Removal of aluminum from silicon by electron beam melting with exponential decreasing power	Separation and Purification Technology	Materials Science / Photovoltaic	152 (2015) 32-36
6	Removal of oxygen from silicon by electron beam melting	Applied Physics A	Materials Science / Photovoltaic	115(3) (2014) 753-757
7	Characterization of ZnO by mean of I-V measurement of respective schottky diode by DLTS	Journal of Applied and Emerging Sciences	Materials Science / semiconductor	4(2), (2013) pp 147-152
8	Characterization of ZnO by means of C-V measurement of respective schottky diode by DLTS	Journal of applied & Emerging Sciences	Materials Science / semiconductor	4 (1) 46-50 (2013)
9	Characterization of SiC by means of C-V measurement of respective schottky diode by DLTS	Journal of applied & Emerging Sciences	Materials Science / semiconductor	3 (1) 25-29 (2012)
10	Synthesis and characterization of strontium hexaferrite by solid state reaction	Journal of applied & Emerging Sciences	Materials Science / semiconductor	3 (2) 133-135 (2012)
11	Solid State Synthesis and Characterization of Spintronics Material Cd _{0.55} Hg _{0.45} Te	Applied Mechanics and Materials	Materials Science / semiconductor	Vols 44-47(2011) 2299-2306
12	Characterization of InGaN by means of C-V measurement of respective Light Emitting Diode (LED) by DLTS	Journal of applied & Emerging Sciences	Materials Science / semiconductor	2 (2) 146-149 (2011)
13	A Diagnosing Case of the Eye and Orbital Tumor through B-Scan	Science International	Medical Physics	28(4),3345-3348,2016
14	Study of Current-voltage Characteristic Using Deep Level Transient Spectroscopy Technique of Schottky Diode Made of SiC	Journal of applied & Emerging Sciences	Materials Science / semiconductor	6 (2) 111-114 (2016)
15	Morphological and magnetic behavior of neodymium doped LiNi _{0.5} Fe ₂ O ₄ nanocrystalline ferrites prepared via micro-emulsion technique	Digest Journal of Nanomaterials and Biostructures	Materials Science / magnetic materials /nanotechnology	Vol. 12, No. 1, January - March 2017, p. 223 - 228
16	A Comparative Study of 16-Frame and 8-Frame Gated Spect Imaging for	Science International	Medical Physics	29(4),847-855,2017

	Determination of Left Ventricular Volumes and Ejection Fraction			
17	Redistribution of Carbon from Silicon by Electron Beam Melting	Digest Journal of Nanomaterials and Biostructures	Materials Science / Photovoltaic	Vol. 12, No. 3, July - September 2017, p. 785 - 795
18	Kinetics of volatile impurities removal from silicon by electron beam melting for photovoltaic applications	Physical Chemistry Chemical Physics	Materials Science / Photovoltaic	V. 19, Issue. 38, 28, September 2017, p. 25837-25850
19	Improvement of solar cell performance after oxygen removal by electron beam melting	Silicon	Materials Science / Photovoltaic	Silicon (2018) 10:1887–1891 https://doi.org/10.1007/s12633-017-9694-y
20	Removal of SiC from Silicon after Electron Beam Melting Technique on Industrial Scale	Silicon	Materials Science / Photovoltaic	12 June 2018 https://doi.org/10.1007/s12633-018-9859-3
21	New LiCo _{0.5} Pr _x Fe _{2-x} O ₄ Nano ferrites: Prepared via low cost technique for high density storage application	Ceramics International	Materials Science / magnetic materials /nanotechnology	DOI: https://doi.org/10.1016/j.ceramint.2017.10.126
22	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 nanocrystalline materials	Materials Research Express	Materials Science / magnetic materials /nanotechnology	Volume 4 Issue11 (2017) 115009
23	Developmental and Reproductive Toxicity of Hydrothermally Synthesized Zirconium dioxide Nanoparticles	Interciencia	Medical Physics	2017 42(11)16-34
24	Measurement of ambient gamma radiation levels at different localities of Quetta, Pakistan	Interciencia	Medical Physics	2017 42(11)63-78
25	Thermogravimetric analysis, optical and dielectric		Materials Science /	

	properties of newly developed LiNi _{0.5} PrxFe _{2-x} O ₄ monocrystalline ferrites	Digest Journal of Nanomaterials and Biostructures	magnetic materials /nanotechnology	Vol. 13, No. 3, July - September 2018, p. 809 - 816
26	Evaluations of Secondary Cancer Risk in Head and Neck Radiotherapy using 3DCRT, IMRT and VMAT: A Phantom Study(0.76)	Journal of Medical Physics	Medical Physics	J Med Phys 2018;43:129-35 DOI:10.4103/jmp.JMP_106_17
27	Quality Assurance of VMAT Head and Neck cancer treatment using PRESAGE® Dosimeter	Journal of Radiotherapy in Practice	Medical Physics	doi: 10.1017/S146039691800016X, 2018
28	Solid State Synthesis and Characterization of Spintronics Material Hg _{0.8} Cd _{0.2} Te	Journal of applied & Emerging Sciences	Materials Science / semiconductor	7 (2) 178-182 (2017)
29	Effect Mechanism of Electron Beam on Carbon in Silicon during Melting	International Journal of material research	Materials Science / Photovoltaic	DOI 10.3139/146.111736
30	Intensity modulated radiation therapy: a review of current practice and future outlooks	Journal of Radiation Research and Applied Sciences	Medical Physics	https://doi.org/10.1016/j.jrras.2018.07.006
31	Microstructure and conversion efficiency of multicrystalline silicon ingot prepared by upgraded metallurgical grade silicon Solar Energy Materials and Solar Cells	Solar Energy Materials and Solar Cells	Materials Science / Photovoltaic	Volume 186, November 2018, Pages 50–56
32	Structural, morphological and optical investigations Of silver nanoparticles synthesized by sol-gel autocombustion Method	Digest Journal of Nanomaterials and Biostructures	Materials Science / magnetic materials /nanotechnology	Vol. 13, No. 3, July - September 2018, p. 679 - 683
33	Distribution of Phosphorus in N-type Multicrystalline Silicon Produced by Directional Solidification	IEEE Journal of Photovoltaics	Materials Science / magnetic materials /nanotechnology	DOI: 10.1109/JPHOTOV.2018.2866182 (Volume: 8 , Issue: 6 , Nov. 2018) Page(s): 1486 – 1493
34	Morphological, Structural and Hardness Changes on Human Dental Enamel	Laser Physics	Materials Science / medical	28 126004 10-Dec-2018

	Irradiated with Nd: YAG Laser		physics /nanotechnology	
35	Thermogravimetric Analysis, Optical and Dielectric Properties of Newly Developed LiNi _{0.5} Pr _x Fe _{2-x} O ₄ Nano Crystalline Ferrites	Digest Journal of Nanomaterials and Biostructures	Materials Science / magnetic materials /nanotechnology	Vol. 13, No. 3, July - September 2018, p. 809 - 816
36	A simulation model approach to analysis of high breakdown voltage in normally off 4h-sic vertical junction field effect transistor”	Journal of Ovonic Research	Materials Science / semiconductor /computational Physics	Volume 14, Number 6, November - December 2018
37	Solid State Synthesis and Characterization of Spintronics Material Hg _{0.8} Cd _{0.2} Te	Journal of applied & Emerging Sciences	Materials Science / magnetic materials /nanotechnology/ spintronic	7 (2) 178-182(2018)
38	Separation of boron from silicon by steam-added electron beam melting	Separation and Purification Technology	Materials Science / Photovoltaic	https://doi.org/10.1016/j.seppur.2018.12.080
39	Structural, optical and magnetic elucidation of co-doped of Nd⁺³ and Pr⁺³ on lithium nanoferrites and its smart technological application	Results in Physics	Materials Science / magnetic materials /nanotechnology	12 (2019) 1334–1339
40	Impacts of bismuth on the structural and dielectric properties of cobalt-cadmium spinel ferrites fabricated via micro-emulsion route	Chin. Phys. B	Materials Science / magnetic materials /nanotechnology	Vol. 28, No. 8 (2019) 088701
41	Energy efficiency improvement in electron beam melting of solar-	Energy	Materials Science / Photovoltaic	Volume 185, 15 October 2019,

	grade silicon by using graphite substrate			Pages 102-110
42	Exploration on the removal of arsenic in silicon under electron beam melting condition	Vacuum,	Materials Science / Photovoltaic	Volume 166, August 2019, Pages 191-195
43	Kinetics of Evaporation Under vacuum: Application to Molten Silicon in Electron Beam Melting	Materials Science in Semiconductor Processing	Materials Science / Photovoltaic	Volume 96, 15 June 2019, Pages 53-58, https://doi.org/10.1016/j.mssp.2019.02.015
44	Transmissivity of optomechanical system containing a two level system	International Journal of Modern Physics B	Quantum optics	DOI: 10.1142/S0217979219502527
45	Dielectric, Impedance and Modulus spectroscopic studies of Co _{0.3} Cd _{0.7} Zn _{1.5} xFe _{2-x} O ₄ nanoparticles	Applied Physics A Materials Science & Processing	Materials Science / magnetic materials /nanotechnology	DOI: 10.1007/s00339-019-3029-3
46	Characterization Of Zirconium Substituted Cobalt Zinc Ferrites Synthesized Via Co-Precipitation Technique,	Digest Journal of Nanomaterials and Biostructures	Materials Science / magnetic materials /nanotechnology	Vol. 14, No. 3, July - Septembre 2019, p 607-616.
47	Design and Analysis of Normally-on 4h-Sic Vertical Junction Field Effect Transistor (VJFET) using Sentaurus TCAD Simulation”	Journal of Ovonic Research	Materials Science / semiconductor /computational Physics	Vol. 15, No. 5 September – October 2019, p. 335 - 343
48	Dose verification of volumetric-modulated arc therapy using one-dimensional and two-dimensional dosimeters. Journal of Radiotherapy in Practice	Journal of Radiotherapy in Practice	Medical Physics	18 (3):304-308

49	Impact of aluminum substitution on the structural and dielectric properties of Ni–Cu spinel ferrite nanoparticles synthesized via sol–gel route	Optical and Quantum Electronics (2020) 52:190	Materials Science / magnetic materials /nanotechnology	https://doi.org/10.1007/s11082-020-02304-w
50	Dielectric, impedance, and modulus spectroscopic studies of lanthanum-doped nickel spinel ferrites NiLaxFe2-xO4 nanoparticles	Journal of Sol-Gel Science and Technology	Materials Science / magnetic materials /nanotechnology	https://doi.org/10.1007/s10971-020-05359-z
51	Separation of SiC from Si by addition of Al with electromagnetic induction melting	Journal of Alloys and Compounds	Materials Science / Photovoltaic	https://doi.org/10.1016/j.jallcom.2020.155310
52	STRUCTURAL, MORPHOLOGICAL STUDY OF NEODYMIUM SUBSTITUTED COBALT ZINC FERRITES NANOPARTICLES SYNTHESIZED VIA CO-PRECIPIATION METHOD	Journal of Ovonic Research	Materials Science / magnetic materials /nanotechnology	Vol. 17, No. 1, January - February 2021, p. 89 - 98
53	Aluminum Substitution in Ni-Co Based Spinel Ferrite Nanoparticles by Sol–Gel Auto-Combustion Method	Journal of ELECTRONIC MATERIALS	Materials Science / magnetic materials /nanotechnology	https://doi.org/10.1007/s11664-021-08819-6
54	Tuning the dielectric and structural properties of erbium substitution on cobalt ferrites	Journal of Ovonic Research	Materials Science / magnetic materials /nanotechnology	Vol. 17, No. 4, July - August 2021, p. 383 - 394
55	Structural and magnetic properties of Co–Cd–Zn spinel ferrite nanoparticles synthesized through micro-emulsion method	Optical and Quantum Electronics	Materials Science / magnetic materials /nanotechnology	(2021) 53:677 https://doi.org/10.1007/s11082-021-03299-8
Paper Presented				
S. No	Title of Paper	Name of Conference	National/ International	Date

1	Solid State Synthesis and Characterization of Spintronic Material Cd _{0.55} Hg _{0.45} Te	ICFMD 2010 International	International	2010
2	The Role of spintronic Materials	Materials Science progress	International	2012
3	Removal of Impurities from silicon through EBM	Innovations in energy sector	International	2014
4	INCONAL 740 alloys	Future of Alloys	International	2015
5	Impurities behavior in Si	FICT BUITEMS,	International	2016
6	SiC removal via EBM	BUITEMS ,FOE	International	2018
7	Effect mechanism of O ₂ during Si melt via EBM	AIOU, Islamabad	International	2018
8	SiC removal by EBM and energy crises	UET Lahore	International	2017
9	Green energy building discussion panel	UET Lahore	International	2017
10	Mechanism of the Effect of Electron Beam Melting on the Distribution of Oxygen, Nitrogen, and Carbon in Silicon	Nano technology, GoC Faisalabad	International	2018
11	Oxygen removal and cell efficiency on industrial scale	Materials science UoB	International	2018
12	Separation of boron from silicon by steam-added electron beam melting	Nano technology, GoC Faisalabad	International	2020
13	Removal of Boron from silicon through Directional solidification to improve n-type polycrystalline solar cells	AIOU, Islamabad	International	2020
14	Ferrites Nanoparticles applications on communication satellites	AIOU, Islamabad	International	2021

Books Authored/ Edited

S. No	Name of book	Publisher	ISBN

Work Experience :Total Experience Sep- 2003-September 2020 (18 Y)

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held

1	Sep-2003	Aug-2005	National College of Science and Technology	Lecturer
2	Aug-2005	Oct-2009	FG colleges Pakistan	Lecturer
3	Oct-2009	Nov-2010	BUIITEMS	Lecturer
4	Nov-2010	Jan 2018	BUIITEMS	Assistant Professor
5	Jan-2018	December 2021	BUIITEMS	Associate Professor
6	Feb, 2017	To Date	BUIITEMS	Chairperson Physics
7	Dec-2021	To Date	BUIITEMS	Professor
Area of specialization			Materials science and Engineering	
Expertise			Materials Physics, spintronic Materials, Ferrites, Super Capacitors, Photovoltaic industries , super alloys..... etc	
HEC Approved supervisor			Yes , HEC approved supervisor	
If Yes, provide HEC URL			http://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/eportal-APS.aspx?Paged=TRUE&p_ID=210&PageFirstRow=211&&View={BB4654FE-A4B3-4894-BC0B-38231AD177DD}	
Research grants/ Projects			3 projects submitted and one National level project is under Process	
Additional Information: Vice President of new energy materials and Technology institute Co. LTD. Of Dalian University of Technology (Qingdao). to be responsible for construction of China-Pakistan International Science and Technology Corridor				
Making it to the top through professional competence and hard work in growing dynamic and reputable organization, where my knowledge, skill and experience of Physics, in materials Science, solar grade silicon refining and spintronic physics can be applied to the potential.				
https://www.researchgate.net/profile/Muhammad_Khan65				

<p>Supervisor of MS Student</p> <ol style="list-style-type: none"> 1 Noor ul Haque Khan 2 Talal Usman 3 Ziaurrahman 4 Muhammad Hussain

5 Ayesha

6 Sulaiman

7 Saira Yasmeen

8 Siraj ul Islam

9 Muhibullah

10 Saifullah

11 Muhamamd Hafiz

12 Farkhanda Naheed

13 Muzaffar Hussain

14 Muhammad Musa Khan Achakzai

15 Yasrab

16 Usman Buzdar

17 Qurratulain

Co-supervisor of MS Student

18 Muhammad Khalid

19 Sunila Bakhsh

20 Sameen Aslam

21 Furhaj

22 Waseemullah

23 Awais Ahmad

24 WAqas Ahmad

25 Shahzaib

26 Habib ur Rahman

Supervisor of student BS level

27 Muhibbullah

28 Suleman

29 Saifullah

30 Siraj ul Islam

Currently supervising PhD Student

25 Noor ul Haq

26 Maqbool Ahmad

Co-supervisor of PhD Student

27 Furhaj Ahmad Shaikh

28 Abdul Qayoom

29 Samiullah