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Qual	lifi	cation						
Year	•	Degree/Certific ate	Name of t	he Institute/	Field of study	,		
2012 2015		PhD	Dalian Un technology	niversity of y- China	Material phys Chemistry	ics &		
2004 2006		M. Phil Physics	The Islam Bahawalp	ia University of ur-PK	Spintronic Ma	Spintronic Materials		
2000 2002	2000- M Sc Physics		The Islamia University of Bahawalpur-PK		Digital Electronics			
Publ	lica	tions in HEC Rec	cognized jo	urnals				
S. No	Т	itle of Paper		Name of Journal	National/ International	Publication date		
1	re	Evaluation on electrical resistivity of silicon materials after electron beam melting (0925)		Bulletin of Materials Science	International	38(5) (2015) 1429-1433		
2	b N L	Characterization of y Means of I-V Measurements of Re ight-Emitting Dioo y DLTS (1.092)	espective	Arabian Journal for Science and Engineering	International	40(1) (2015): 263-268		
3	Formation mechanism of hollow silicon ingot induced by fountain effect(4.900)		induced	Renewable Energy	International	77 (2015) 463-466		
4	Segregation and evaporation behaviors of aluminum and calcium in silicon during solidification process induced by electron beam(2.280)		aporation um and uring ss	Semiconductor Science and Technology	International	30(3) (2015) 035013		
5	R	emoval of aluminulicon by electron by electron by electron belting with exponent	eam	Separation and Purification Technology	International	152 (2015) 32-36		

	decreasing power(3.927)			
6	Removal of oxygen from silicon by electron beam melting (1.604)	Applied Physics A	International	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	HEC/National	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	HEC/National	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	HEC/National	3 (1) 25-29 (2012)
10	Synthesis and characterization of strontium hexaferrite by solid state reaction	Journal of applied & Emerging Sciences	HEC/National	3 (2) 133- 135 (2012)
11	Solid State Synthesis and Characterization of Spintronics Material Cd0.55 Hg0.45 Te (0.111)	Applied Mechanics and Materials	International	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	HEC/National	2 (2) 146- 149 (2011)
13	A Diagnosing Case of the Eye and Orbital Tumor through B-Scan (0.75)	Science International	International	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	HEC/National	6 (2) 111- 114 (2016)
15	Morphological and magnetic behavior of neodymium doped LiNi0.5Fe2O4 nanocrystalline ferrites prepared via micro-emulsion technique (0.673)	Digest Journal of Nanomaterials and Biostructures	International	Vol. 12, No. 1, January - March 2017, p. 223 - 228
16	A Comparative Study of 16- Frame and 8-Frame Gated Spect Imaging for Determination of Left Ventricular Volumes and Ejection Fraction(0.75)	Science International	International	29(4),847- 855,2017
17	Redistribution of Carbon from Silicon by Electron Beam Melting(0.673)	Digest Journal of Nanomaterials and Biostructures	International	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 (4.2)	Physical Chemistry Chemical Physics	International	V. 19, Issue. 38, 28,September 2017, p. 25837-25850
19	Improvement of solar cell performance after oxygen removal by electron beam melting (1.246)	Silicon	International	Silicon (2018) 10:1887– 1891 https://doi.or g/10.1007/s1 2633-017- 9694-y
20	Removal of SiC from Silicon after Electron Beam Melting Technique on Industrial Scale(1.246)	Silicon	international	12 June 2018 https://doi.or g/10.1007/s1 2633-018- 9859-3
21	New LiCo0.5PrxFe2-xO4 Nano ferrites: Prepared via low cost technique for high density storage application (3.057)	Ceramics International	International	DOI:https://d oi.org/10.101 6/j.ceramint.2 017.10.126
22	Evaluation and comparison of dc resistivity of NiZrxCoxFe2-2xO4, Ni0.5Sn0.5CoxMnxFe2-2xO4, Mg 1-xCaxNiyFe2-yO4 and Mg1-xNixCoyFe2-yO4nanocrytalline materilas (1.151)	Materials Research Express	International	Volume 4 Issue11 (2017) 115009
23	Separation of boron from silicon by steam-added electron beam melting for photovoltaic applications (5.976)	Journal of Materials Chemistry C	International	TC-ART-10- 2017-004744 Under review
24	Developmental and Reproductive Toxicity of Hydrothermally Synthesized Zirconium dioxide Nanoparticles(0.258)	Interciencia	International	2017 42(11)16-34
25	Measurement of ambient gamma radiation levels at different localities of Quetta, Pakistan (0.258)	Interciencia	International	2017 42(11)63-78
26	Thermogravimetric analysis, optical and dielectric properties of newly developed LiNi0.5PrxFe2-xO4 monocrystalline ferrites(1.151)	Materials Research Express	International	MRX-106225

27	Evaluations of Secondary Cancer Risk in Head and Neck Radiotherapy using 3DCRT, IMRT and VMAT: A Phantom Study(0.76)	Journal of Medical Physics	International	J Med Phys 2018;43:129- 35 DOI:10.4103 /jmp.JMP_10 6_17
28	Characterization of Continuous Laser Treated Human Enamel	Optics and Lasers in Engineering	International	under review (2019)
29	Quality Assurance of VMAT Head and Neck cancer treatment using PRESAGE® Dosimeter	Journal of Radiotherapy in Practice	International	doi: 10.1017/S14 60396918000 16X, 2018
30	Impacts of praseodymium on structural and magnetic properties of lithium nanocrystalline ferrites fabricated via micro- emulsion technique	journal applied physics	International	under review (2019)
31	Morphological, spectral and dielectric properties of Pr-doped lithium–Nickel nanoferrites for high frequency device applications	Applied Physics A	International	under review (2019)
32	Structural and magnetic behavior evaluation of LiCo _{0.5} Fe ₂ O ₄ nanocrystalline ferrites for high density magnetic media application	Silicon	International	under review (2019)
33	Solid State Synthesis and Characterization of Spintronics Material Hg0.8Cd0.2Te	Journal of applied & Emerging Sciences	HEC/National	7 (2) 178- 182 (2017)
34	Solid State Synthesis and Characterization of Spintronics Material Cd0.525 Zn0.225 Hg0.25 Te	Opto electronics rapid communication	International	under review (2019)
35	New dielectric material: CoErxFe2- xO4 nanoferrites for high frequency device fabrication	Journal of Alloys and Compounds (IF 3.13)	International	(Under review)2019
36	Role of Praseodymium and Neodymium on lithium ferrites and smart technological application	Ceramics International(IF 2.99)	International	(Under review)2019
37	Effect Mechanism of Electron Beam on Carbon in Silicon during Melting(0.67)	International Journal of material research	International	DOI 10.3139/146. 111736
38	Intensity modulated radiation therapy: a review of current practice and future outlooks	Journal of Radiation Research and	International	https://doi.or g/10.1016/j.jr ras.2018.07.0

		Applied Sciences		06
39	Microstructure and conversion efficiency of multicrystalline silicon ingot prepared by upgraded metallurgical grade silicon Solar Energy Materials and Solar Cells (5.018)	Solar Energy Materials and Solar Cells	International	Volume 186, November 2018, Pages 50–56
40	Separation of boron from silicon melt surface by steam-added electron beam melting (4.439)	Applied Surface Science	International	Accepted
41	Optimization of silicon refining process for energy saving by using industrial-scale electron beam melting equipment (6.207)	Journal of Cleaner Production	International	Accepted
42	Separation of SiC from silicon by aluminum addition during electromagnetic induction melting process (3.927)	Separation and Purification Technology	International	Accepted
43	Kinetics of evaporation under vacuum: application to molten silicon in electron beam melting (3.771)	Applied Thermal Engineering	International	ATE_2018_3 686
44	Structural, morphological and optical investigations Of silver nanoparticles synthesized by sol-gel autocombustion Method	Digest Journal of Nanomaterials and Biostructures	International	Vol. 13, No. 3, July - September 2018, p. 679 - 683
45	Distribution of Phosphorus in N-type Multicrystalline Silicon Produced by Directional Solidification	IEEE Journal of Photovoltaics	International	DOI: 10.1109/ JPHOTOV.20 18.2866182 (Volume: 8 , Issue: 6 , Nov. 2018) Page(s): 1486 – 1493
46	Morphological, Structural and Hardness Changes on Human Dental Enamel Irradiated with Nd: YAG Laser IF= 1.158	Laser Physics	International	Accepted 2018
47	Thermogravimetric Analysis, Optical and Dielectric Properties of Newly Developed LiNi0.5PrxFe2-xO4 Nano Crystalline Ferrites IF=.83	Digest Journal of Nanomaterials and Biostructures	International	Vol. 13, No. 3, July - September 2018, p. 809 - 816
48	A simulation model approach to analysis of high breakdown voltage in normallyoff 4h-sic vertical	Journal of Ovonic Research	International	Volume 14, Number 6, November - December

	junction field effect transistor"			2018
49	Solid State Synthesis and Characterization of Spintronics Material Hg _{0.8} Cd _{0.2} Te	Journal of applied & Emerging Sciences		7 (2) 178- 182(2018)
50	Separation of boron from silicon by steam-added electron beam melting	Separation and Purification Technology	International	https:// doi.org/ 10.101 6/j.sepp ur.2018 .12.080
51	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	International	12 (2019) 1334– 1339
52	Impacts of bismuth on the structural and dielectric properties of cobalt-cadmium spinel ferrites fabricated via microemulsion route	Chin. Phys. B	International	Vol. 28, No. 8 (2019) 088701
53	Energy efficiency improvement in electron beam melting of solar-grade silicon by using graphite substrate	Energy	International	Volume 185, 15 October 2019, Pages 102- 110
54	Exploration on the removal of arsenic in silicon under electron beam melting condition	Vacuum,	International	Volume 166, August 2019, Pages 191- 195
55	Kinetics of Evaporation Under vacuum: Application to Molten Silicon in Electron Beam Melting	Materials Science in Semiconductor Processing	International	Volume 96, 15 June 2019, Pages 53-58, https://doi.o rg/10.1016/j

				.mssp.2019. 02.015
56	Transmissivity of optomechanical system containing a two level system	Journal of	International	DOI: 10.1142/S02 1797921950 2527
57	Dielectric, Impedance and Modulus spectroscopic studies of Co0.3Cd0.7Zn1.5xFe2-xO4 nanoparticles	Applied Physics A Materials Science & Processing	International	DOI: 10.1007/s00 339-019- 3029-3
58	Characterization Of Zirconium Substituted Cobalt Zinc Ferrites Synthesized Via Co- Precipitation Technique,	Digest Journal of Nanomaterials and Biostructures	International	Vol. 14, No. 3, July - Septembre 2019, p 607- 616.
59	Design and Analysis of Normally-on 4h-Sic Vertical Junction Field Effect Transistor (VJFET) using Sentaurus TCAD Simulation"	Journal of Ovonic Research	International	Vol. 15, No. 5 September – October 2019, p. 335 – 343
60	Dose verification of volumetric-modulated arc therapy using one-dimensional and two-dimensional dosimeters. Journal of Radiotherapy in Practice	Journal of Radiotherapy in Practice	International	18 (3):304- 308
Pape	r Presented			
S. No	Title of Paper	Name of Conference	National/ International	Date
1	Solid State Synthesis and Characterization of Spintronic Material Cd0.55 Hg0.45 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 O2 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	Electro	nism of the on Beam M stribution o en, and Can	elting on f Oxygen,	Nano technology, GoC Faisalabad	International	2018		
11		n removal a	and cell istrial scale	Materials science UoB	International	2018		
Bool		red/ Edite						
S. No	Name	of book			Publisher	ISBN		
Wor		ience :To1		ience Sep- 2003	3-September 2	2019 (16 Y)		
S. No	From (year)	To (year)	Name of the Organization	ne Institution/	Position held			
1	Sep- 2003	Aug- 2005		ollege of Science	Lecturer			
2	Aug- 2005	Oct- 2009	FG college	s Pakistan	Lecturer			
3	Oct- 2009	Nov- 2010	BUITEMS		Lecturer			
4	Nov- 2010	June 2016	BUITEMS		Assistant Professor			
5	Jun- 2016	To Date	BUITEMS Associate Professor		or			
Area	of speci	ialization		cience and Enginee				
	ertise		Materials Physics, spintronic Materials, Ferrites, Super Capacitors, Photovoltaic industries, super alloysetc					
	C Approvervisor	ved	Yes , HEC approved supervisor					
If Yes, provide HEC URL			http://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/e portal- APS.aspx?Paged=TRUE&p_ID=210&PageFirstRow=211&&V iew={BB4654FE-A4B3-4894-BC0B-38231AD177DD}					
	arch gra	ants/	3 projects submitted and one National level project is under					
Proj		nformatio	Process	Vice Presiden	nt of new energy	materials and		
Tech resp	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							
Mak	ing it to t	he top thro	ugh professi	onal competence an	d hard work in gro	owing 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								

 $https://www.researchgate.net/profile/Muhammad_Khan65$

potential.

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23 Abdul Qayoom							