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Faculty		Arts & Basic Sciences		
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Qualification				
Year	Degree/Certificate	Name of the Institute/ University		Field of study
2010-2013	Ph.D	University of Science and Technology Beijing, P.R.China		Materials Science and Engineering (Analytical Polymer Chemistry)
2000-2001	M.Sc (Hons)	University of Sindh, Jamshoro		Organic Chemistry
1997-2000	B.Sc (Hons)	University of Sindh, Jamshoro		Chemistry
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1.	Influence of the multi-functional epoxy monomers structure on the electro-optical properties and morphology of polymer-dispersed liquid crystal films	Polymer Bulletin	International	2013
2.	Study on the effects of isotropic cross-linked pristine morphology and electro-optical properties of PDLC films	Polymer Bulletin	International	2015
3.	Characterization and Morphology of Polymer-Dispersed Liquid Crystal Films	Soft Materials	International	2014
4.	The UV polymerization temperature dependence of polymer dispersed liquid crystals based on epoxies/acrylates hybrid polymer matrix components	LiquidCrystals	International	2012
5.	Study of polymer dispersed liquid crystal systems using epoxies / acrylates as hybrid polymer matrix components	LiquidCrystals	International	2012
6.	Influence of the excessive	Archives Des Sciences	International	2013

	mercaptane hardener effects of epoxy monomer structure on the electro-optical properties and morphology of polymer-dispersed liquid crystal films			
7.	Controlled synthesis, phase formation, growth mechanism, and magnetic properties of 3-D CoNi alloy microstructures composed of nanorods	Crystal Engineering Communication	International	2013
8.	Effects of di and tetra functional epoxy monomers structure on the morphology and the electro-optical properties of polymer-dispersed liquid crystal films	International Journal of Scientific & Technology Research	International	2013
9.	Hydrothermalsynthesis, characterization and hydrogen storage of SnS nanorods	Material Letters	International	2013
10.	Influence of enhanced curing temperature of epoxy monomers structure on the electro-optical properties and morphology of polymer-dispersed liquid crystal films	American Journal of Engineering Research	International	2013
11.	Fabrication of CoNi alloy hollow nanostructured microspheres for hydrogen storage application	Journal of Nanoparticle Research	International	2013
12.	Theoretical study of the effect of ion trap geometry on the dynamic behavior of ions in a Paul trap	International Journal of Mass Spectrometry	International	2011
13.	Preparation and Electro-Optical Properties of Polyurethane Matrix Based Polymer Dispersed Liquid Crystal Films	Chinese journal of liquid crystals and displays	International	2013
14.	Fabrication and Electrical characteristic of quaternary ultrathin HfTiErO thin films for MOS devices grown by rf sputtering	Chemistry and Materials Research	International	2013
15.	Polymer-stabilized nano particle-enriched blue phase liquid crystals	Journal of Material Chemistry C	International	2013
16.	Exchange interaction, electronic structure and magnetic properties of (LaMnO ₃) _m /(SrTiO ₃) _n superlattices: Ab initio study	Journal of Alloys and Compounds	International	2014
17.	Electrical and Photonics Characteristics of Hftiero Thin Films Deposited at 673 K Substrate Temperature	Sindh University Research Journal Sci: Series	National	2013
18.	Effect of impact force on Ti ⁺ C10Mo alloy powder compaction by high velocity compaction technique	Materials and Design	International	2014
19.	Study on the effects of epoxy resin based PDLC films using polythiol group (-SH) as hardener and catalyst	Materials Focus	International	2015
20.	Single crystalline Nano Octahedron of NiFe ₂ O ₄ : Gram scale Synthesis, magnetic and optical properties	Material letter	International	2016

21.	Electro-optical properties of PDLC Films using Diethylene tri amine.	MolecularCrystal & Liquid Crystal	International	2016
Paper Presented				
S. No	Title of Paper	Name of Conference	National/ International	Date
1.	Effects of the content of Epoxy Monomers on the Electro-Optical Properties and reducing morphology of Polymer-Dispersed Liquid Crystal films	International Conference on Engineering & Applied Sciences (ICEAS-2012) Beijing, P.R.China	International	2012
2.	Influence of the multiple crack growth effect of Epoxy Monomers Structure on the Electro-Optical Properties and morphology of Polymer-Dispersed Liquid Crystal films	The 2 ND International Conference on Engineering & Applied Sciences (ICEAS-2013) at Tokyo, Japan.	International	2013
3.	Study on the electro-optical properties of PDLC films (Smart glass) using Diethylenetriamine (DETA) hardener	EMN Meeting on Liquid Crystal, at the Radisson Resort Orlando-Celebration Hotel, Orlando, USA.	International	2016
4.	Preparation of PDLC films (Smart glass) using Trimethanolamine (TMA) catalyst via heat curing PIPS method	3D and Materials Research (CC3DMR), in Cheon /Seoul, South Korea.	International	2016
5.	Study on the Effects of Epoxy Resin Based PDLC Films Using Triethanolamine (TEA) as Catalyst	Materials and Process Engineering ,at the NED University Science and Technology, I.R.PAKISTAN	National	2015
Books Authored/ Edited				
S. No	Name of book	Publisher	ISBN	
	N/A			
Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1.	2001	2010	Public College Mirpurkhas,Sindh	Lecturer in Chemistry

2.	2013	2014	Department of Chemical Engineering, University of Karachi	Assistant Professor (IPFP)
3.	2014	2015	H.E.J. Research Institute of Chemistry, University of Karachi	Research Officer
4.	2016	Till to date	BUIITEMS	Assistant Professor
Area of specialization			Analytical Polymer Chemistry	
Expertise			Smart Glass thin PDLC films.	
HEC Approved supervisor			Yes	
If Yes, provide HEC URL			In Progress	
Research grants/ Projects			<ol style="list-style-type: none"> 1. Study on the effects of isotropic cross-linked pristine morphology and electro-optical properties of PDLC films (Supported by the National Natural Science Foundation (Grant No.51272026 and 51273022), the Research Fund of the State Key Laboratory for Advanced Metals and Materials, the Open Research Fund of the State Key Laboratory of Bioelectronics (Southeast University) and the Fundamental Research Funds for the Central Universities (Grant No.FRF-TP-12-035A). (Completed)). 2. Study on the effects of polythiol group (-SH) hardener and catalyst based PDLC films. (HEC, 0.5million). (Completed). 3. Single crystalline Nano Octahedron of NiFe₂O₄: Gram scale Synthesis, magnetic and optical properties. (Supported by National Natural Science Foundation of China (Grant nos: 51371105 and 51071023) (Completed)). 	
Additional Information				
<u>Research Profile</u>				
<ul style="list-style-type: none"> • Impact Factor 36.274 • Number of Citations 114 • <i>h</i> - Index 07 • <i>i10</i>- Index 04 				
<u>Scholarships and Awards</u>				
<ol style="list-style-type: none"> 1. 3rd position in excellent international student scholarship of USTB for year of 2012. 2. Chancellor Scholarships of University of Science and Technology Beijing for Ph.D Studies. 3. Rotary club International scholarship of youth merit award programme. 4. Tharparkar boy scouts presidential scholarship. 				
<u>International Journal Reviewer</u>				
<ol style="list-style-type: none"> 1. Universal Journal of Materials Science (Horizon Research Publishing Corporation, USA). 2. Journal of Physical Science & Application (David Publishing Company, USA). 				