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Designation	Assistant Professor			
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Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2016	PhD	Universiti Teknologi Petronas (UTP), Malaysia	Chemical Engineering (Ionic Liquids, Biofuel, Catalysis)	
2011	MS/ Mphil	Kohat University of Science and Technology (KUST), Pakistan	Organic Chemistry	
2008	Graduation	Kohat University of Science and Technology (KUST), Pakistan	Organic Chemistry	
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1	Rheology of pure ionic liquids and their complex fluids: A review	<i>ACS Sustainable Chemistry and Engineering</i>	International	2019
2	Extraction of valuable chemicals from sustainable rice husk waste using ultrasonic assisted ionic liquids technology.	<i>Journal of Cleaner Production</i>	International	2019
3	The Chemistry and Pharmacology of Alkaloids and Allied Nitrogen Compounds from Artemisia Species: A Review	<i>Phytotherapy Research</i>	International	2019
4	Fabrication of hexagonal boron nitride quantum dots via a facile bottom-up technique	<i>Ceramics International</i>	International	2019
5	COSMO-RS Predictions, Hydrogen Bond Basicity Values and Experimental Evaluation of	<i>Journal of Molecular liquids</i>	International	2019

	Amino Acid-based Ionic Liquids for Lignocellulosic Biomass Dissolution			
6	Preparation of cellulosic Ag-nanocomposites using an ionic liquid	<i>Journal of Biomaterials Science: Polymer Edition</i>	International	2019
7	A new diterpene glycoside from the roots of <i>Isodon rugosus</i> Wall Ex benth	<i>Records of Natural Products</i>	International	2018
8	Decomposition-adsorption-deposition: An effective and novel technique for synthesis of hexagonal boron nitride microsheets	<i>Journal of Materials Science in Semiconductor Processing</i>	International	2018
9	A review on ionic liquids as perspective catalysts in transesterification of different feedstock oil into biodiesel	Journal of Molecular Liquids	International	2018
10	Phosphonium based hydrophobic ionic liquids with fluorine anions for biodiesel production from waste cooking oil.	International Journal of Environmental Science and Technology	International	2018
11	Alkyd paint removal: Ionic Liquid vs volatile organic compound (VOC).	Journal of Progress in Organic Coatings	International	2018
12	De-acidification of crude oil using supported ionic liquids phases.	Journal of Separation and Purification Technology	International	2018
13	Thermophysical Properties and Ecotoxicity of New Nitrile Functionalised Protic Ionic Liquids.	Journal of Molecular liquids	International	2018
14	Study of the Antimicrobial Activity of Cyclic Cation-Based Ionic Liquids via Experimental and Group Contribution QSAR Model.	Journal of Chemosphere	International	2018
15	Dicationic Ionic Liquids as Sustainable Approach for Direct Conversion of Cellulose to Levulinic Acid.	Journal of Cleaner Production	International	2018
16	Efficient Conversion of Lignocellulosic Biomass to Levulinic Acid Using Acidic Ionic Liquids.	Journal of Carbohydrate Polymers	International	2018
17	Magnesium diboride (MgB ₂): an effective and novel precursor for the synthesis of vertically aligned BNNTs.	Journal of Materials Research Bulletin	International	2018
18	A Detail Description on Catalytic Conversion of Waste Palm Cooking Oil into Biodiesel and Its Derivatives: New Functionalized Ionic Liquid Process.	Journal of Chemistry Select	International	2017
19	Preparation and kinetics study of biodiesel production from waste	Renewable energy-Journal	International	2017

	cooking oil using new functionalized ionic liquids as catalysts.			
20	Effect of Structural Variations on the Thermophysical Properties of Protic Ionic Liquids: Insights from Experimental and Computational Studies.	Journal of Chemical engineering Data	International	2017
21	Swelling Mechanism of Urea Crosslinked Starch-Lignin Films in Water.	Journal of Environmental Technology	International	2017
22	A new approach of probe sonication assisted ionic liquid conversion of glucose, cellulose, biomass in to 5-hydroxymethylfurfural.	Ultrasonics Sonochemistry	International	2017
23	Dicationic Imidazolium Based Ionic Liquids: Synthesis and Properties.	Journal of Molecular Liquids	International	2017
24	Coupling supercritical methanol with ionic liquids for the acidity reduction of naphthenic acids.	Polish Journal of Chemical Technology	International	2017
25	Box-Benhken Optimization of Urea Crosslinked Starch Film as Slow Release Fertilizer.	Academia Journal of Scientific Research	International	2017
26	A review of their synthesis, characterization and toxic hazard considerations.	Arabian Journal of Chemistry	International	2017
27	Synthesis, characterization and physicochemical properties of dual-functional acidic ionic liquids.	Journal of Molecular Liquids	International	2016
28	Kinetics and thermodynamic parameters of ionic liquid pretreated rubber wood biomass.	Journal of Molecular Liquids	International	2016
29	Extraction of Biocompatible Hydroxyapatite from Fish Scales Using Novel Approach of Ionic Liquids Pretreatment.	Separation and Purification Technology	International	2016
30	Thermal stability and kinetic study of benzimidazolium based ionic liquid.	Procedia Engineering	International	2016
31	Pyrolysis Kinetics of 1-Propyronitrile Imidazolium Trifluoroacetate Ionic Liquid using Thermogravimetric Analysis.	Procedia Engineering	International	2016
32	Phosphonium-based ionic liquid and their application in separation of dye from aqueous solution.	ARNP Journal of Engineering and Applied Sciences	International	2016
33	Biodiesel production from waste cooking oil by acidic ionic liquid as a Catalyst.	Renewable Energy-Journal	International	2015
34	Synthesis, characterization and effect of temperature different physicochemical properties of protic ionic liquids.	RSC Advances	International	2015
35	Synthesis and Thermophysical	Journal of Solution	International	2015

	Properties of Hydrogensulfate Based Acidic Ionic Liquids.	Chemistry		
36	Impact of Ball-Milling Pretreatment on Pyrolysis Behavior and Kinetics of Crystalline Cellulose.	Waste and Biomass Valorization	International	2015
37	Dissolution and Separation of Wood Biopolymers Using Ionic Liquids.	ChemBioEng	International	2015
38	Calligonum polygonoides biomass as a low-cost adsorbent: surface characterization and methylene blue adsorption characteristics.	Desalination and Water Treatment	International	2015
39	Characterization of Waste Palm Cooking Oil for Biodiesel Production.	International Journal of Chemical Engineering and Application	International	2014
40	Preparation of biodiesel from waste cooking oil catalyzed by basic ionic liquid.	Applied Mechanics and Materials	International	2014
41	Antibacterial and Preliminary Phytochemicals Screening of Theraxicum officinale.	Journal of Pure & Applied Microbiology	International	2014
42	Assessment of Mycobiota and Aflatoxins in Poultry Feeds Collected from Poultry Farms.	Journal of Pure & Applied Microbiology	International	2014
43	Review on-Phytochemical and Biological evaluation of Vitex negundo Linn:	Int J Pharm Sci Res	International	2012
44	Behavior of Colchicine Treated and Untreated Diploid Plants of Sismbrium irio under Varying Photoperiods.	Welfenia journal	International	2012
45	Antitussive and Toxicological evaluation of Vitex negundo.	Natural Product Research	International	2012
46	Secondary metabolites from Nepeta Juncea.	African. J. Of Biotechnology	International	2011
47	Phytochemicals Screening and Antimicrobial Activities of Selected Medicinal of khyber Pakhtunkhwa Pakistan.	African. J. Of Pharmacy and Pharmacology	International	2011
48	Evaluation of the chemical composition and trace elements analysis of nepeta suaveolis and phlomis bracteosa belonging to family labiatae.	American-Eurasian J.Agric. & Environ. Sci	International	2009

Paper Presented

S. No	Title of Paper	Name of Conference	National/ International	Date
1	Conversion of waste cooking oil into biodiesel and their glycerol into biodiesel additives catalyzed by protic ionic liquids	Green Energy Technologies	National	2017
2	Thermal stability and kinetic study of	4th International	International	2016

	benzimidazolium based ionic liquid.	Conference on Process Engineering and Advanced Materials		
3	Phosphonium-based ionic liquid and their application in separation of dye from aqueous solution	<i>Malaysia Technical Universities Conference in Engineering and Technology- (MUCET)</i>	International	2015
4	Preparation of biodiesel from waste cooking oil catalyzed by basic ionic liquid.	<i>The 3rd International Conference on Process Engineering and Advanced Materials, Malaysia (ICPEAM)</i>	International	2014
5	Characterization of Waste Palm Cooking Oil for Biodiesel Production.	<i>2013 2nd International conference on chemical Science and engineering, Malaysia (ICCSE)</i>	International	2013
6	Tyrosinase inhibitory lignans from the methanol extract of <i>Vitex negundo</i> Linn and their structure-activity relationship.	<i>19th National Chemistry Conference, Pakistan</i>	National	2009
7	Attended conference	conference in Pakistan, on modern techniques in drug design & exploitation of local phytochemical & biological resources	National	2009

Books Authored/ Edited

S. No	Name of book	Publisher	ISBN
1	Conversion of biomass to chemicals using ILs		<i>In Press</i>
2	Applications of Ionic Liquids in Sensors and Biosensors	Materials Research Forum LLC, Millersville, PA 17551, USA	978-1-64490-030-7
3	Ion exchange materials and their pharmaceutical applications.	Nova Publisher, New York	978-1-62417-887-0

4	Electrospun nanofibers and their functionalization.		Nova Publisher, New York	978-1-62417- 887-0
Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	06/06/ 2017	To date	BUIITEMS	Assistant Professor
2	04/06/201 2	20/09/201 6	Universiti Teknologi PETRONAS (UTP) Malaysia	Graduate Assistantship/ Lecturer
3	05/05/201 1	05/05/201 2	King Saud University (Saudi Arabia)	Researcher
4	07/10/200 7	06/10/200 8	Government Degree College, Mirali, KPK, Pakistan	Lecturer
Area of specialization			Organic Chemistry	
Research Interest			Ionic Liquids, Biofuels, Biomass, Catalysis, Natural product	
Future Research Plans			Working in the above related fields	
HEC Approved supervisor			Yes	
If Yes, provide HEC URL			https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx	
Research grants/ Projects			<p>Completed as a PI:</p> <ol style="list-style-type: none"> 1. Ionic Liquids Catalytic Conversion of Waste Cooking Oil into Biodiesel. (HEC start of grant, 0.5 million) 2. Comparative Study of Ionic Liquids and Heterogeneous Catalysts for Biodiesel Production from high FFAs Oil. (ORIC BUIITEMS, 0.2 million) <p>Ongoing as a Co-PI:</p> <ol style="list-style-type: none"> 1. Design, Synthesis and Physicochemical Characterization of Selected Naphthoquinones, Quinolines and Isoquinolines based drugs in the presence of surfactants as a membrane models. (HEC TDF Project) 2. Development of the Non Tracking Collector with Nano Fluids to Enhance the Thermal Capabilities of the Collector. (HEC NRPU Project) 	
Additional Information				
Scholarships and Awards				
<ol style="list-style-type: none"> 1. Best Poster Award in SEDEX 2015, UTP, Malaysia 2. Silver Award for the project in SEDEX 2015, UTP, Malaysia 3. PhD: Scholarship Awarded by University Technology PETRONAS, Bandar Seri Iskandar, Tronoh 31750, Perak, Malaysia (2012). 				

Workshops and Seminar attended

1. A short course on introduction to COSMO-RS model theory and practices, at Universiti Teknologi PETRONAS, Malaysia (25th-26th March 2015).
2. One day workshop related to Nanotechnology at King Saud University , Riyadh, Saudi Arabia.
3. Exploitation of Drugs in Kohat University of Science and Technology, Kohat.KPK, Pakistan
4. Six days Workshop on Teacher Training in Chemistry in Kohat University of Science and Technology, Kohat KPK, Pakistan (19-24 November 2007).
5. Three days' workshop on research techniques in Kohat University of Science and Technology, Kohat KPK, Pakistan (27-29 September 2010).
6. A short course on mastering the art of journal publication-A versatile approach at Universiti Teknologi PETRONAS, Malaysia (26th February 2015)
7. A seminar on esco safety awareness on laminar flow, biological cabinet & fume hood technology.
8. Chromatography techniques and application seminar at Universiti Teknologi PETRONAS, Malaysia (5th November 2014)
9. One day seminar on Journal Impact Factor at Universiti Teknologi Petronas (7th November 2012).

Trainings

1. Professional Development Training Program, at Balochistan University of IT, Engineering and Management Sciences (BUITEMS), Pakistan (26th February-26th March 2018).
2. Training course on writing research proposal/thesis, at University of Malaya, Malaysia (29th-30th November 2014).
3. Training has completed on basic operational & application training for DSC & TGA, manufactured by TA instrument USA. Conducted by national scientific company, Riyadh, Saudi Arabia