



BUITEMS

Quality & Excellence in Education

ISO 9001-2008 certified

www.buitms.edu.pk

UAN: 081- 111-717-111



Name	Dr. Mamoon Ur Rashid			
Designation	Associate Professor			
Department	Department of Chemistry, FBS			
Research Profile	ORCID ID: https://orcid.org/0000-0002-7505-8958			
	Research Gate ID: mamoondawar			
	Google Scholar Profile ID: E-9760-2016			
E-mail address	Official	mamoon.urrashid@buitms.edu.pk		
	Personal	mamoondawar@gmail.com		
Telephone Number	Office Extension	Nil		
	Mobile	03339688051		
Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
March 2008–July 2014	MS Leading to PhD	University of Peshawar, Peshawar	Chemistry	
Dec 2004–Jan 2007	M.Sc	Kohat University of Science and Technology (KUST), Kohat	Chemistry	
Oct 2002–Sep 2004	Graduation	Gomal University DI Khan	Biological Sciences	
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	date
1	Extraction of valuable chemicals from sustainable rice husk waste using ultrasonic assisted ionic liquids technology	Journal of Cleaner Production	International	2019
2	Thermophysical Properties and Ecotoxicity of New Nitrile Functionalized Protic Ionic Liquids.	Journal Molecular liquids	International	2018
3	Effect of Temperature on ¹ H NMR Spectra, Antitrypanosomal Activity, Conformational Analysis and Molecular Docking of Curine Derivatives from Berberis brevissima Jafri	Journal of Natural Products.	International	2020
4	Spectral, Anti-Inflammatory, Anti-Pyretic, Leishmanicidal, and	Front. Chem.	International	2021

	Molecular Docking Studies, Against Selected Protein Targets, of a New Bisbenzylisoquinoline Alkaloid.			
5	Phytochemical and Antitrypanosomal Investigation of the Fractions and Compounds Isolated from <i>Artemisia elegantissima</i> .	Pharmaceutical Biology	International	2014
6	A new irregular monoterpene acetate along with eight known compounds with antifungal potential from the aerial parts of <i>Artemisia incisa</i> Pamp (Asteraceae).	Natural product Research	International	2016
7	A new ceramide along with eight known compounds from the roots of <i>Artemisia incisa</i> Pamp	Records of Natural Products	International	2015
8	The chemistry and pharmacology of alkaloids and allied nitrogen compounds from <i>Artemisia</i> species: A review.	Phytotherapy Research.	International	2019
9	A new diterpene glucoside from the roots of <i>Isodon rugosus</i> Wall Ex benth.	Record of Natural Products	International	2019
10	Effect of Temperature on ¹ H NMR Spectra, Antitrypanosomal Activity, Conformational Analysis, and Molecular Docking of Curine Derivatives from <i>Berberis brevissima</i> .	Journal of Natural Products	International	2020
11	A new isoquinoline alkaloid with antimicrobial properties from <i>Berberis jaeschkeana</i> Schneid. var. <i>jaeschkeana</i> .	Natural Product Research.	International	2015
12	Antidiabetic and antimicrobial activities of fractions and compounds isolated from <i>Berberis brevissima</i> Jafri and <i>Berberis parkeriana</i> Schneid.	Bangladesh Journal of Pharmacology	International	2013
13	Isolation, structure elucidation and enzyme inhibition studies of a new hydroxy ester and other compounds from <i>Berberis jaeschkeana</i> Schneid stem.	Natural Product Research	International	2015
14	Antimicrobial properties of extracts and compounds isolated from <i>Berberis jaeschkeana</i> .	Bangladesh Journal of Pharmacology	International	2013
15	Combined nematocidal effect of nonacosan-10-ol and 23a-homostigmast-5-en-3 β -ol on <i>Meloidogyne incognita</i> (kofoid and white) chitwood.	The Journal of Animal and Plant Sciences.	International	2016
16	Biological screening of ethyl acetate extract of <i>Hedera nepalensis</i> stem.	African Journal of Pharmacy and Pharmacology	International	2012
17	Bioassay guided isolation and characterization of anti-microbial and anti- trypanosomal agents from <i>Berberis glaucocarpa</i> Stapf.	African Journal of Pharmacy and Pharmacology	International	2013

18	NMR, Novel Pharmacological and In Silico Docking Studies of Oxyacanthine and Tetrandrine: Bisbenzylisoquinoline Alkaloids Isolated from Berberis glaucocarpa Roots.	Journal of Analytical Methods in Chemistry.	International	2018
19	Activity guided isolation of nematicidal constituents from the roots of Berberis brevissima Jafri and Berberis parkeriana Schneid.	Tarim Bilimleri Dergisi (Journal of Agriculture Sciences (Ankara University))	International	2019
20	Phytochemical management of root knot nematode (Meloidogyne incognita) kofoid and white Chitwood by Artemisia spp. In tomato (Lycopersicon esculentum).	Brazilian Journal of Biology.	International	2020
21	Antileishmanial Potential of Berberine Alkaloids from Berberis glaucocarpa Roots: Molecular Docking Suggests Relevant Leishmania Protein Targets.,	Natural Product Communications	International	2021
22	"In vitro antioxidant, anticholinesterase, tyrosinase activity studies, and LC-MS/MS simultaneous determination of 37 bioactive compounds in Indigofera heterantha."	South African Journal of Botany	International	2022

Paper Presented

S. No	Title of Paper	Name of Conference	National/ International	Date
-------	----------------	--------------------	-------------------------	------

Books Authored/ Edited

S. No	Name of book Chapter	Publisher	ISBN
1	Mujtaba Ellahi and Mamoon Ur Rashid, 2017. The toxic effects BPA on fetuses, infants, and children (pp. 143-54). London (UK): IntechOpen. http://dx.doi.org/10.5772/intechopen.68896	Intechopen.com	5772

Work Experience

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	Dec 2021	Continue	https://www.buitms.edu.pk/	Assoc. Professor (Chemistry)
2	July 2016	Dec 2021	https://www.buitms.edu.pk/	Asst. Professor (Chemistry)
3	Aug 2014	July 2016	https://www.upr.edu.pk/	Asst. Professor (Chemistry)
4	March 2012	Sept 2012	https://www.strath.ac.uk/science/strathclydeinstituteofpharmacybiomedicalsciences/	Res Associate
5	Aug 2007	July 2008	https://www.pmr.org.pk/ (Peshawar Branch)	Res Officer

Area of specialization Organic Chemistry

Research Interest	Functional Porous Material (Metal/Covalent Organic Framework, Hydrogel) for Biosensing, Catalysis, Drug Delivery Application; Drug Macromolecular (DNA, surfactants) Interactions studies, Nanomaterials (Quantum/Carbons dots, chalcogenides, 2D materials); Macromolecular Prodrug Synthesis and Spectral Analysis.				
Future Research Plans	Establishing Material and Medicinal Chemistry Lab at BUIITEMS				
HEC Approved supervisor	Yes				
If Yes, provide HEC URL	https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/A/PSEPORTAL.aspx S. No. 29272				
Research grants/ Projects	Year	Project Title	PI/ Co-PI	Milli	Funding Agency
	2019-2023	Design, Synthesis and Physicochemical Characterization of Selected Naphthoquinones, Quinolines and Isoquinolines Based Drugs in the Presence of Surfactants as a Membrane models"	PI	3.542057	NRPU, Pakista
	2019-2020	Synthesis of Heterogeneous Catalyst for the extraction of Crude oil	Co-PI	0.50	SRGP, Pakista
	2018-2019	Synthesis of ionic liquids for the extraction of Crude oil	Co-PI	0.20	ORIC, BUIITE
	2018-2019	Physicochemical Investigation of Lapachone (Quinoline) analogues in the Presence of Zwitterionic Surfactants."	Co-PI	0.20	ORIC, BUIITE, Pakista
	2017-2018	Physicochemical Investigation of natural Berberine analogues obtained from Berberis jaeschkeana in the Presence of Ionic Surfactants."	PI	0.20	ORIC, BUIITE, Pakista
	2015-2016	Isolation, In-silico Design and Optimization (Synthetic & Biosynthetic) of Sphingosine Kinase Selective Inhibitors	PI	0.49	SRGP, Pakista
Additional Information					
GRADUATE RESEARCH THESES SUPERVISED SUPERVISED					
<ol style="list-style-type: none"> 2014-2016 --- Imtiaz Rasheed, M.Phil. Scholar) (as Full Supervisor at the University of Poonch Rawalakot, Kashmir). Project: Nanoparticles Synthesis of Selected Antioxidants with Paramagnetic/ And Noble Metals and Their Evaluation for Antimicrobial Activities 2014-2016 --- Raja Mansoor Mukhtar, M.Phil. Scholar (as Supervisor at the University of Poonch Rawalakot, Kashmir). Project: Green Synthesis of Dithiocarbamates and Their Evaluation for Selected Biological Applications 2014-2016 --- Umar Khan, M.Phil. Scholar (as Full Supervisor at the University of Poonch Rawalakot, Kashmir). Project: Chemical and Biological Evaluation of The Secondary Metabolites of Different Fungal Species (Including Endophytic Fungi) 2016-2018 --- Samra Farooq, M. Phil Scholar (Co-Supervisor) (Sardar Bahadur Khan Women University, Quetta, 2018). Project: Physicochemical Investigation of Berberine Based Drugs in The Presence of Ionic Surfactants 2016-2018 --- Muhammad Shoaib, M. Phil Scholar (2016-2018) (Co-Supervisor) BUIITEMS. Project: Physicochemical Investigation of naphthoquinones in the Presence of Ionic Surfactants 2018-2019 --- Iram Shah, M. Phil Scholar (2016-2018) (Co-Supervisor) (Sardar Bahadur Khan Women University, Quetta). Project: Studies on the Physicochemical Interaction of Ivermectin With Various Surfactants (Membrane Model) 2017-2019 --- Farah Gul, M. Phil Scholar (BUIITEMS) (Supervisor). Project: Studies on The Physicochemical Interaction of Selected Antifungal Drugs With DNA 					

8. 2019-2020 --- Sajida Kausar (Co-supervisor) (Sardar Bahadur Khan Women University, Quetta, Project: Studies on the Macromolecular Prodrug synthesis of Hydroxychloroquine Analogues (Hydroxychloroquine) With DNA.

9. 2021-2022--- Aftab Hassan MS chemistry (BUIITEMS) (Co-Supervisor). Project: Synthesis, Fabrication and Characterization of Chalcogenide for Drug Delivery Applications.

UNDER-SUPERVISION

1. 2020- 2021 --- Farah Gul, PhD Scholar (under the NPRU project/ scholarship) (Chemistry-BUIITEMS). Project: Design, Synthesis and Physicochemical Characterization of Selected Drugs in the Presence of Surfactants as a Membrane models

2. 2021-2022. Sadeeq Ullah, MS Chemistry (BUIITEMS) (Supervisor). Project: Synthesis, Characterization and Medical Application of Lawasome based Metal Organic Framework.

3. 2021-2022. M. Hussain, BS Chemistry (BUIITEMS) (Supervisor). Project: Biocompatible Gel synthesis of Gelatin, Chitosan and PEG using Lawsone (quinone) as a Fluorescent Linkers.

4. 2021-2022. Shiasta Bibi, BS Chemistry (BUIITEMS) (Supervisor). Project: Synthesis, Characterization and Biomedical evaluation of Biocompatible Chitosan Hydrogels.

4. 2021-2022. Kinza Jahangir, BS Chemistry (BUIITEMS) (Supervisor). Project: Synthesis, Characterization of High Quantum Efficient Fluorescent Metal Organic Framework.

AWARDS AND FELLOWSHIPS

Year	Award Title
2007	Merit Certificate for distinction at the Master of Science in Chemistry from KUST, Kohat.
2009	Fellow of the Indigenous 5000 fellowship, Batch VI, Higher Education Commission, Islamabad. From 2008 to 2013.
2012	Fellow of the International Research Support Initiative Program Batch XIX, Higher Education Commission, Islamabad. From March 2012 to September 2012, Glasgow, UK.