



# BUITEMS

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<b>Name</b>	Dr. Mamoon Ur Rashid			
<b>Designation</b>	Assistant Professor (BPS-19)			
<b>Department</b>	Chemistry			
<b>Faculty</b>	Faculty of Arts & Basic Sciences (FABS)			
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<b>Qualification</b>				
Year	Degree/Certificate	Name of the Institute/University	Field of study	
2008-2014	M.Phil leading to PhD	University of Peshawar	Organic Chemistry	
2004-2006	M.Sc	Kohat University of Sciences & Technology	Organic Chemistry	
2002-2004	B.Sc	Gomal University, DI Khan	Biological Sciences	
<b>Publications in HEC Recognized journals</b>				
<b>S. No</b>	<b>Title of Paper</b>	<b>Name of Journal</b>	<b>National/ International</b>	<b>Publication date</b>
1	Ur Rashid M, Alamzeb M, Ali S, et al. The chemistry and pharmacology of alkaloids and allied nitrogen compounds from Artemisia species: A review. Phytotherapy Research. 2019;1-24. <a href="https://doi.org/10.1002/ptr.6466">https://doi.org/10.1002/ptr.6466</a>	Phytotherapy Research.	International	2019
2	Zahoor Ullah, Zakaria Man, Amir Sada Khan, Nawshad Muhammad, Hamayoun Mahmood, Ouahid Ben Ghanem, Pervaiz Ahmad, Mansoor-Ul Hassan Shah, Mamoon-Ur-Rashid, Muhammad Raheel. Extraction of valuable chemicals from sustainable rice husk waste using ultrasonic assisted ionic liquids technology. Journal of	Journal of Cleaner Production	International	2018

	Cleaner Production 220 (2019) 620-629.			
3	Amir Sada Khan, Asma Nasrullah, Zahoor Ullah, A.H Bhat, Ouahid Ben Ghanem, Nawshad Muhammad, Mamoon Ur Rashid, Zakaria Man. Thermophysical Properties and Ecotoxicity of New Nitrile Functionalised Protic Ionic Liquids. Journal Molecular liquids. 2018, 249: 583-590.	Journal Molecular liquids.	International	2018
4	Mamoon-Ur-Rashid, Saqib Ali, Muhammad Alamzeb, John Igoli, Carol Clements, Syed Qaiser Shah, Valerie A Ferro, Alexander Irvine Gray, Muhammad Rafiullah Khan. Phytochemical and Antitrypanosomal Investigation of the Fractions and Compounds Isolated from Artemisia elegantissima. Pharmaceutical Biology 2014, 52(8): 983-7.	Pharmaceutical Biology	International	2014
5	Rashid, Mamoon Ur, Muhammad Alamzeb, Saqib Ali, Zafar Ali Shah, Ishrat Naz, Ashfaq Ahmad Khan, Dima Semaan, and Mohammad Rafiullah Khan. "A new irregular monoterpene acetate along with eight known compounds with antifungal potential from the aerial parts of Artemisia incisa Pamp (Asteraceae)." Natural product research (2016): 1-8.	Records of Natural Products	International	2016
6	Mamoon-Ur-Rashid, Alamzeb M, Ali S, Khan AA, Igoli JO, Ferro VA, Gray AI, Khan MR. A new ceramide along with eight known compounds from the roots of Artemisia incisa Pamp. Records of Natural Products. 2015, 9: 297-304. Impact Factor: 1.205 (2018).	Records of Natural Products	International	2015
7	Muhammad Alamzeb, Muhammad Rafiullah Khan, Mamoon Ur Rashid, Saqib Ali, Ashfaq Ahmad Khan. A new isoquinoline alkaloid with anti-microbial properties from Berberis jaeschkeana Schneid. var. jaeschkeana. Natural Product Research. 2015, 29(8): 692-7.	Natural Product Research.	International	2015
8	Saqib Ali, John Igoli, Carol Clements, Dima Semaan,	Bangladesh Journal of	International	2013

	Muhammad Alamzeb, Mamoon-Ur-Rashid, Syed Qaiser Shah, Valerie A. Ferro, Alexander I. Gray and M. Rafiullah Khan. 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 2013; 8: 336-342.	Pharmacology		
9	Muhammad Alamzeb, Muhammad Rafiullah Khan, Mamoon Ur Rashid, Saqib Ali, Ashfaq Ahmad Khan. 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, 2015, 29(17): 1664-1669.	Natural Product Research	International	2015
10	Muhammad Alamzeb, M. Rafiullah Khan, Saqib Ali, Syed Qaiser Shah and Mamoon-Ur-Rashid. Antimicrobial properties of extracts and compounds isolated from <i>Berberis jaeschkeana</i> . Bangladesh Journal of Pharmacology 2013; 8: 107-109.	Bangladesh Journal of Pharmacology	International	2013
11	Ishrat Naz, Saifullah, Shah. Hussain, J. E. Palomares-Rius, M. Ahmad, A. Ali 1, Mamoon Ur Rashid and F. Bibi. Combined nematocidal effect of nonacosan-10-ol and 23a-homostigmast-5-en-3 $\beta$ -ol on <i>Meloidogyne incognita</i> (kofoid and white) chitwood. The Journal of Animal and Plant Sciences. 2016, 26(6): 1633-1640. Impact Factor: 0.57 (2018).	The Journal of Animal and Plant Sciences.	International	2016
12	Ghias Uddin, Ashfaq Ahmad Khan, Muhammad Alamzeb, Saqib Ali, Mamoon-Ur-Rashid, Muhammad Alam, Abdul Rauf and Wali Ullah. Biological screening of ethyl acetate extract of <i>Hedera nepalensis</i> stem. African Journal of Pharmacy and Pharmacology Vol. 6(42), pp. 2934-2937, 15.	African Journal of Pharmacy and Pharmacology	International	2012
13	Muhammad Alamzeb, Mamoon-Ur-Rashid, M. Rafiullah Khan,	African Journal of	International	2013

	Saqib Ali and Syed Qaiser Shah. Bioassay guided isolation and characterization of anti-microbial and anti-trypanosomal agents from <i>Berberis glaucocarpa</i> Stapf. African Journal of Pharmacy and Pharmacology/23.01.13/3444. Open access journals. <a href="http://www.academicjournals.org/AJPP">http:// www.academicjournals.org/AJPP</a> .	Pharmacy and Pharmacology		
14	Muhammad Alamzeb, Muhammad Omer, Mamoon Ur-Rashid, Muslim Raza, Saqib Ali, Behramand Khan, and Asad Ullah. NMR, Novel Pharmacological and In Silico Docking Studies of Oxyacanthine and Tetrandrine: Bisbenzylisoquinoline Alkaloids Isolated from <i>Berberis glaucocarpa</i> Roots. Journal of Analytical Methods in Chemistry. Volume 2018, Article ID 7692913, 7 pages. <a href="https://doi.org/10.1155/2018/7692913">https://doi.org/10.1155/2018/7692913</a>	Journal of Analytical Methods in Chemistry.	International	2018
15	Saqib Ali, Ishrat Naz, Muhammad Alamzeb and Mamoon Ur Rashid. Activity guided isolation of nematocidal constituents from the roots of <i>Berberis brevissima</i> Jafri and <i>Berberis parkeriana</i> Schneid. Tarim Bilimleri Dergisi (Journal of Agriculture Sciences (Ankara University) ISSN: 1300-7580) 2019, 25: 108-114.	Journal of Agriculture Sciences (Ankara University)	International	2019
16	Arif Ullaha, Ghias Uddina, Ismaila, Nasir Ul Dina, Bina Shaheen Siddiquib, Mamoon Ur Rashid *. A new diterpene glucoside from the roots of <i>Isodon rugosus</i> Wall Ex benth. Record of Natural Products, Rec. Nat. Prod. 13:4 (2019) 287-295.	Record of Natural Products,	International	2018
17	Ribwa Khan, Ishrat Naz, Shaukat Hussain, Raja Asad Ali Khan, Saif Ullah, Mamoon Ur Rashid, Ifra Siddique. Phytochemical management of root knot nematode ( <i>Meloidogyne incognita</i> ) kofoid and white Chitwood by <i>Artemisia</i> spp. In tomato	Brazilian Journal of Biology.	International	2019

	(Lycopersicom esculentum). Brazilian Journal of Biology. Accepted (08/08/2019).			
18	Muhammad Alamzeb, Mamoon Ur Rashid * 'Urease enzyme inhibition studies of Isoquinoline alkaloids from Berberis glaucocarpa and confirmatory validation through in silico molecular docking studies. Asian Pacific Journal of Tropical Medicine, (Accepted APJTM-1152-18)	Asian Pacific Journal of Tropical	International	2019
19	Ali, Saqib; Alamzeb, Muhammad; Ur Rashid, Mamoon; Setzer, William. Effect of Temperature on 1H NMR Spectra, Antitrypanosomal Activity, Conformational Analysis and Molecular Docking of Curine Derivatives from Berberis brevissima Jafri." Journal of Natural Products. Manuscript ID: np-2019-003978.R1. Accepted on 06-August-2019.	Journal of Natural Products.	International	2019

#### Paper Presented

S. No	Title of Paper	Name of Conference	Nation.	Date
	The chemistry and <sup>1</sup> H-NMR spectral studies of ceramides	University of Strathclyde, Glasgow, UK.	International.	11 <sup>th</sup> - 13 <sup>th</sup> July 2012
	International Conference of Pakistan Psychopathological society	Sardar Bahadur Women Universi Quetta, Baloch	Nation.	November 20-22, 2017

#### Books Authored/ Edited

S. No	Name of book	Publisher	ISBN
	A Book chapter, Title "The Toxic Effects of BPA on Fetuses, Infants, and Childrens" by Mujtaba Ellahi and Mamoon Ur Rashid. (Published) <a href="http://dx.doi.org/10.5772/intechopen.68896">http://dx.doi.org/10.5772/intechopen.68896</a>	IntechOpen	DOI: 10.5772/intechopen.68896

#### Work Experience

S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1	2016	Continue	The Balochistan University of Information Technology, Engineering and Management Sciences	Assistant Professor (Chemistry)

			(BUIITEMS), Quetta	
2	2014	2016	The University of Poonch Rawalakot, AJK	Assistant Professor (Chemistry)
3	2007	2008	Pakistan Medical Research Council, HMC Peshawar	Research Officer
<b>Area of special.</b>	Organic Chemistry			
<b>Res. Interest</b>	Drug/surfactants/ DNA Interaction studies, Spectral Interpretation and Synthesis of Bioactive Natural Products			
<b>Future Res. Plans</b>	Establishing of Medicinal Chemistry Lab (NRPU project) at BUIITEMS			
<b>HEC Approved supervisor</b>	<b>Yes</b>			
<b>If Yes, provide HEC URL</b>	<a href="https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx">https://www.hec.gov.pk/english/scholarshipsgrants/ASA/Pages/APS-EPORTAL.aspx</a> Serial No. 29272			
<b>Res. grants/ Projects</b>	<p><b><u>In-Progress (working as a PI)</u></b></p> <p>a. 3.542057 Million NRPU Project No: 9372/Baloch NRPU/R&amp;D/HEC/ 2017. Title "Design, Synthesis Physicochemical Characterization of Selected Naphthoquinolines and Isoquinolines Based Drugs in the Presence of Surfactants as a Membrane models". <b>1<sup>st</sup> installment has released.</b></p> <p>b. 0.2 Million BUIITEMS ORIC Project 2017-2018, working on a project with title "Comparative Evaluation of Binding Interaction of Nano-Confined Charged Layer of Selected Benzoisoquinoline Chloride and DNA in Different Supramolecular Environment". <b>(Progress)</b></p> <p><b><u>Completed (worked as a PI)</u></b></p> <p>c. 0.5 Million Startup Research Project (2015-2016) Entitled "Isolation, <i>In-silico</i> Design and Optimization (Synthesis and Biosynthetic) of Sphingosine Kinase Selective Inhibitor". Funded by Higher Education Commission (HEC), Government of Pakistan.</p> <p>d. 0.2 Million BUIITEMS ORIC Project (2017-2018), working on a project with title "Physicochemical Investigation of natural Berberine analogues obtained from <i>Berberis jaeschkeana</i> in the presence of surfactants".</p>			

	<p>of Ionic Surfactants”</p> <p><b><u>(worked as a Co-PI with Dr. Zahoor Ullah, BUIITEMS , 2018)</u></b></p> <p>e. 0.5 Million Startup Research Project Entitled’’ Synthesis of Heterogeneous Catalyst for the extraction of Crude oil” by Higher Education Commission (HEC), Government of Pakistan</p> <p>f. <b><u>worked as a Co-PI with Dr. Muhammad Raheel, BUIITEMS, 2018)</u></b></p> <p>g. 0.2 Million BUIITEMS ORIC Project 2017-2018, working as Co-PI, Title “0.2 Million BUIITEMS ORIC Project 2017-2018, working as Co-PI, Title “Physicochemical Investigation of naphthoquinone Lapachol analogues obtained from <i>Heterophragma adenoporum</i> plant in the Presence of Ionic Surfactants”</p> <p><b>Submitted</b></p> <p>h. 3.0 Million HEC Project, Title “Strengthening and Up Grading of Chemistry lab at BUIITEMS”</p>
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#### **Additional Information**

- ✓ Merit /Distinction Certificate at M.Sc. Chemistry from KUST, Kohat.
- ✓ Fellow of the Indigenous 5000 Fellowship, Batch VI, Higher Education Commission, Islamabad (PIN # 106-1074-Ps6-062). From 2008 to 2013.
- ✓ Fellow of the International Research Support Initiative Program (PIN # IRSIP 20 Ps 19), Higher Education Commission, Islamabad. From March 2012 to September 2012, Glasgow, UK.
- ✓ Hafiz Ul Quran Certificate (1995-1999)

#### **M. Phil thesis supervised (2014-2019)**

##### **SUPERVISION**

1. **Imtiaz Rasheed, M.Phil. Scholar (2014-2016) (as Full Supervisor at University of Poonch Rawalakot, Kashmir)**  
**Project:** Nanoparticles Synthesis of Selected Antioxidants with Paramagnetic And Noble Metals and Their Evaluation for Antimicrobial Activity
2. **Raja Mansoor Mukhtar, M.Phil. Scholar (2014-2016) (as Full Supervisor at the University of Poonch Rawalakot, Kashmir)**  
**Project:** Green Synthesis of Dithiocarbamates and Their Evaluation for Selected Biological Applications
3. **Umar Khan, M.Phil. Scholar (2014-2016) (as Full Supervisor at University of Poonch Rawalakot, Kashmir)**  
**Project:** Chemical and Biological Evaluation of The Secondary Metabolites of Different Fungal Species (Including Endophytic Fungi)
4. **Samra Farooq, M. Phil Scholar (2016-2018) (Co-Supervisor) (Sardar Bano Khan Women University, Quetta, 2018)**  
**Project:** *Physicochemical Investigation of Berberine Based Drugs*

*Presence of Ionic Surfactants*

- 5. Muhammad Shoaib, M. Phil Scholar (2016-2018) (Co-Supervisor) BUIITEM**  
**Project:** *Physicochemical Investigation of naphthoquinones in the Presence of Ionic Surfactants*
- 6. Iram Shah, M. Phil Scholar (2016-2018) (Co-Supervisor) (Sardar Bahadur Khan Women University, Quetta, 2019)**  
**Project:** *Studies on the Physicochemical Interaction of Ivermectin with Various Surfactants (Membrane Model)*
- 4. Nine Master Students research thesis** were supervised during the span of 2014 - 2016.

**UNDER-SUPERVISION**

- 5. Farah Gul, M. Phil Scholar (BUIITEMS, 2016-2018) (Supervisor)**  
**Project:** *Studies on The Physicochemical Interaction of Selected Anti-Tubercular Drugs With DNA*
- 8. Sajida Kausar (Co-supervisor) (Sardar Bahadur Khan Women University, Quetta, 2019-2020)**  
**Project:** *Studies on The Physicochemical Interaction of Selected Chloroquine Analogues (Hydroxychloroquine) With DNA*