

# **Ahmad Kaleem Qureshi**

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<https://orcid.org/0000-0001-5586-7419>; <https://www.scopus.com/authid/detail.uri?authorId=36994050900>

## **Qualification**

<b>Doctor of Philosophy (Ph.D in Chemistry)</b>	University of Malaya, Kuala Lumpur, Malaysia
<b>Master of Science (M.Sc. in Chemistry)</b>	University of the Punjab, Lahore, Pakistan
<b>Bachelor of Science (B.Sc.)</b>	BahauddinZakariya University, Multan, Pakistan

## **Experience**

### **Teaching:**

- As Assistant Professor Chemistry (BPS-19) at the Department of Chemistry, University of Sahiwal, Sahiwal, since January 03, 2020 till date.
- As Assistant Professor Chemistry (TTS) at the Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur, since October 17, 2017 to January 02, 2020.
- As Assistant Professor (Visiting Faculty) in Organic Chemistry at the Institute of Chemical Sciences, BahauddinZakariya University, Multan, since January 28, 2017 to September 30, 2017.
- As Assistant Professor in Organic Chemistry at the Institute of Chemical Sciences, BahauddinZakariya University, Multan, since January 28, 2016 to January 27, 2017.
- As a PhD Scholar at the Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia, since April 14, 2008 to October 17, 2015.
- As a Research Assistant at University of Malaya, Malaysia since August 2009 to February 2011 and since August 2011 to March 2012.
- University of Malaya Fellowship Scheme Award 2008-2009.
- As a Lecturer in Organic Chemistry at BahauddinZakariya University Multan since November 6, 2004 to April 10, 2008.
- As a Lecturer of Chemistry in Army Public Degree College Multan since August 2004 to October 2004.
- As Chemistry and Biology teacher and coordinator at Kehkashan Army Public School (KAPS) Multan, since March 2003 to July 2004.
- As a HS Teacher and Lab In charge at American School of International Academics Multan since July 2002 to January 2003.
- Teachers Training Workshop at American School of International Academics Multan. 2002-2003.
- As an In-charge Science Section & Subject Specialist at HOPE School Multan since August 1999 to June 2002.

## **Administrative:**

- Additional Director Information Technology (IT), University of Sahiwal since January 22, 2021 till June 22, 2021
- Member, Department of Chemistry Purchase Committee since January 26, 2021 till date
- In-charge, Department of Chemistry Time Table for BS Program since January 26, 2021 till date
- Member, Department of Chemistry Examination Committee since January 26, 2021 till date
- BS Coordinator, Department of Chemistry, University of Sahiwal since July 1, 2020 till date
- Member, Master's Level PEEF Scholarship Committee since June 18, 2020 till date
- Secretary, Quality Maintenance Committee for Online Teaching Department of Chemistry, University of Sahiwal since April 22, 2020 till date
- Member, Board of Studies Department of Chemistry, University of Sahiwal since 2020 till date
- Convener, Budget Committee Department of Chemistry, University of Sahiwal 2020 till date
- Deputy Director Students Affair Male (II), University of Sahiwal since January 07, 2020 till April 8, 2020.
- Nomination as member of Program Team (PTS) for Preparation of Self-Assessment Report (SARS) of the Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur, Pakistan. (Letter dated: April 19, 2019).
- Nominated Facilitator of the Department of Chemistry for the QEC Department, TheIslamia University of Bahawalpur, Bahawalpur, Pakistan. (Letter dated: April 16, 2019)
- Member Departmental Purchase Committee of the Department of Chemistry, TheIslamia University of Bahawalpur, Bahawalpur, Pakistan. (Letter dated: February 19, 2019)
- Member Admission Committee BS & M.Sc. of th Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur for Spring Semester 2019 (Letter dated: January 30, 2019)
- Nominated Focal Person for MPhil and PhD Admission Committee of the Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur for Fall Semester 2018-2019. (Letter dated: September 13, 2018)
- Member Admission Committee MPhil & PhD of th Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur for Fall Semester 2018/19 (Letter dated: August 31, 2018)
- Member Admission Committee BS & M.Sc. of th Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur for Fall Semester 2018/19 (Letter dated: August 31, 2018)
- Nominated Focal Person of Department of Chemistry for Prospectus Committee of The Islamia University of Bahawalpur for the year 2018/19. (Letter dated: June 7, 2018)
- Deputy Manager Hi-Tec. LAB., Institute of Chemical Sciences, BahauddinZakariya University, Multan since January 28, 2016 to January 27, 2017.
- Secretary Admission Committee for Social Science in the Department of Undergraduate Studies, BahauddinZakariya University, Multan since August 01, 2007 to November 14, 2007.
- Chief Chemist Testing Lab. for Multan Dry Port, Textile Engineering College, BahauddinZakariya University, Multan since November 15, 2007 to April 10, 2008.
- Coordinator and Controller Examination DAE Program for Punjab Technical Board Lahore since November 15, 2007 to April 10, 2008.

## **Achievements/ Memberships of learned Societies/ Editor/ Reviewer of Journals**

- **Member Editorial Board** for the Environmental Contaminants Review (ECR) Journal, since November 13, 2018 till date.  
<https://contaminantsreviews.com/index.php/editorial-board/>
- **Reviewer** Iranian Journal of Science and Technology Transactions A: Science (30-09-2018)
- **Reviewer** Special Issue CleanWAS 2017 for Saudi Journal of Biological Sciences (SJBS)- 07-04-2018
- **Reviewer** Journal of Faculty of Engineering & Technology (22-03-2018)
- **Member Editorial Board** for the Water Conservation and Management (WCM) Journal, since October 25, 2017 till date.  
<https://www.watconman.org/editorial-board/>
- **Gold Medal** awarded by Zakariyan Chemists Organization (ZACHO) 31-03-2017.
- **Reviewer** Plos One Journal (09-08-2015)
- **Most cited paper** in “Corrosion Science Journal” by Elsevier. Title: *Neolamarckiacadamba* alkaloids as eco-friendly corrosion inhibitors for mild steel in 1M HCl media (published in 2013).  
<https://www.journals.elsevier.com/corrosion-science/most-cited-articles>
- **Member** American Chemical Society since 2012 till 2014
- **University Malaya Fellowship** Scheme Award 2008-2009.
- **Member** Center for Natural Products and Drugs Research (CENAR), University of Malaya, Kuala Lumpur, Malaysia, since 2008 till 2015.
- **Mentor** Intel group 2006-2007.
- **HEC Pakistan certified** teacher 2005.

## **Teaching Assignments**

### **Research Supervisions:**

<b>Student</b>	<b>Program</b>	<b>Year</b>	<b>Research Title</b>
Tayyaba Sana Admission Fall Semester 2021	MPhil (UoSWL)	F 2021-2023 In progress	(In Progress) Officially will be completed in Fall 2023
Aleem (Evening Program)	BS (UoSWL)	2019-2022 In Progress	(In Progress) Officially will be completed in Fall 2023
AlamZaib (Evening Program)	BS (UoSWL)	2019-2022 In Progress	(In Progress) Officially will be completed in Fall 2023
Ayesha (Evening Program)	BS (UoSWL)	2019-2022 In Progress	(In Progress) Officially will be completed in Fall 2023

Iqra Khalid Admission Spring Semester 2021	MPhil (UoSWL)	S 2021-2023 In progress	(In progress) Synthesis of Hydrogels and their Dye Degradation Studies
Mussarat Admission Spring Semester 2021	MPhil (UoSWL)	S 2021-2023 In progress	(In progress) Effects of Cross-Linkers on the Properties of Synthesized Hydrogels and their Photolytic Dye Degradation Potential
JavariaIshfaq Admission Spring Semester 2021	MPhil (UoSWL)	S 2021-2023 In progress	(In progress) Metal Oxide Reinforced Hydrogels, Synthesis and their Dye Removal Efficacy
Asr Abdullah (Evening Program)	BS (UoSWL)	2018-2022 Completed	Formulation and Characterization of Sodium Alginate Beads Loaded with ZnO by using CaCl <sub>2</sub> and their Applications
Asra (Morning Program)	BS (UoSWL)	2018-2022 Completed	Formulation and Characterization of Sodium Alginate Beads Loaded with TiO <sub>2</sub> by using CaCl <sub>2</sub> as a Cross Linker for Dye Absorption and Degradation Application
Bukhtiar Khan (Morning Program)	BS (UoSWL)	2018-2022 Completed	Titanium Dioxide Reinforced and BaCl <sub>2</sub> Cross Linked Sodium Alginate Beads Formation and Characterization as well as their Application as an Efficient Dye Absorbent
IqraAslam (Morning Program)	BS (UoSWL)	2018-2022 Completed	Graphene Oxide Reinforced and Barium Chloride Cross Linked Polymer Beads as Efficient Adsorbent
Mariyum (Morning Program)	BS (UoSWL)	2018-2022 Completed	Zinc Oxide Reinforced and CaCl <sub>2</sub> Cross Linked Polymer (Na-Alginate) Beads as Efficient Adsorbent
Moazam Hussain (Morning Program)	BS (UoSWL)	2018-2022 Completed	Fabrication and Characterization of Reusable Sodium Alginate Beads loaded with ZnO by using BaCl <sub>2</sub> as a Cross Linker for Dye Degradation Application
Farah Akram	BS (UoSWL)	2017-2021 Completed	Synthesis and Characterization of Pyrazole Derivatives
Sarfraz Ashiq	MPhil (IUB)	2018-2020 Spring Semester Completed	Greener Approach to avail Silver Nanoparticles from <i>Avenafatua</i> and their Antifungal Activity against <i>Fusariumoxysporum</i>
Umar Farooq	MPhil (IUB)	2018-2020 Spring Semester Completed	Antimicrobial Activity of Silver Nanocomposites, Fabricated with Ethanolic Crude Extract of <i>Oxystelmaesculentum</i>
Muhammad Amjad	MPhil (IUB)	2018-2020 Spring Semester Completed	Green Synthesis of Iron Nanoparticles with <i>Ammivisnaga</i> (L.) Lam Water Extract and their Antimicrobial Activity
RabiaKanwal	MPhil (IUB)	2017-2019 Fall Semester Completed	Green Synthesis of Silver Nanoparticles with <i>Ammivisnaga</i> (L.) Lam and their Activity against <i>Aphis nerii</i>

Nadia Khan	MPhil (IUB)	2017-2019 Fall Semester Completed	Extraction of <i>Silybummarianum</i> (L.) Gaertn and Synthesis of Silver Nanoparticles with their Activity against <i>Coccinellaseptempunctata</i>
Maria Fazal	MPhil (BZU)	2015-2017 Completed	Catalytic Investigation of Metal Complexes in Biodiesel Synthesis.
Shaista Karim	MPhil (BZU)	2015-2017 Completed	Synthesis, Spectroscopic and Chromatographic Analysis of Biodiesel using Bulk and Nanocatalysts.
Muhammad AmmadAslam	MPhil (BZU)	2015-2017 Completed	Synthesis and Characterizations of Antibiotic stabilized Ag Nanoparticles and their Applications
ShahidRaza	MPhil (BZU)	2014-2016 Completed	Morphology controlled synthesis of Silver Nano Particles and their Applications.
Waseem Tahir	Master (BZU)	2004-2006 Completed	Estimation of Sugar Contents in Famous Biscuit Brands.
Muhammad Zahid Iqbal	Master (BZU)	2004-2006 Completed	Estimation of of Sugar Contents in Famous Honey Brands.
GhulamShabir	BS (BZU)	2002-2006 Completed	Synthesis of Indole-2-3-dione Derivatives.

### Courses Taught:

**PhD**            **Chemistry of Natural Products (Alkaloids):** Main types and classes of alkaloids; General methods used for alkaloids isolation and structural identification; Main Pharmaceutical applications of alkaloids. Indole Alkaloids: Introduction, Physical and Chemical Properties of indole alkaloids; general way of isolations; Chemical and spectroscopic methods of indole alkaloids structure determinations; applications of naturingoccurringindole alkaloids with special reference to; cancer, neurodegenerative disorders, antioxidant activities and corrosion inhibition.

**MPhil Degree**            **Chemistry of Glycosides:** Classification of glycosides, Flavonoid, Coumarin, Saponin, Cardiac glycosides, Naturally occurring glycosides, Synthesis and Semi-synthesis of glycosides, C-glycosides, Extraction and Structural elucidations. Biosynthetic pathways of glycosides, Physical and Chemical properties of glycosides, Enzymatic hydrolysis of glycosides, Pharmaceutical applications of glycosides etc.

**Chemistry of Isoprenoids:** Introduction to Terpenoids and steroids. Isolation, structure elucidation and biological activity of Terpenoids. Bile acids, Cholesterol, Vitamin D, Steroid Hormones, Estrogens, Gestrogens, Endrogens, Adrenocortical hormones, Cardiac Steroids and Bufadiolides. Total synthesis of Equilenin, Oestrone and Progesterone.

**Master's Degree**            Stereochemistry, Concept of Acid and Base, Aliphatic Nucleophilic Substitution Reactions, Aromatic Nucleophilic Substitution Reactions, Aromatic Electrophilic Substitution Reactions, Elimination Reactions, Addition Reactions, Condensation Reactions, Natural Products (Alkaloids, Terpenoids, Steroids), Organometallic Compounds, Reaction Mechanisms, Spectroscopic Techniques i.e UV-visible, IR, NMR, Mass Spectrometry, etc.

**BS Degree**            Fundamental Concepts in Organic Chemistry, Oxidation Reduction Reactions, Pericyclic Compounds, Elimination reactions, Addition Reactions, Spectroscopic Techniques i.e UV-Visible, IR, NMR, Mass Spectrometry, General Science, Natural Products Chemistry, etc.

Technical & Scientific Writing.

**Textile Engineering**      Coloration, Color Science, Color Matching and Practical Dyeing I, Color Matching and Practical Dyeing II.

### Field of Research

**Field of Research:** **Natural Product Chemistry.** Extraction, isolation, purification and structural elucidation of pure compounds from plant resources. Plant crude extracts and purified natural products biological and corrosion inhibition activities.

**Material Chemistry:** Synthesis of nanoparticles and materials, study of their electrochemical, catalytic and magnetic properties and applications.

**Organo-metallic** compound synthesis and their applications.

**Polymer Synthesis** and their applications

**Hydrogel Synthesis** and their applications

**Thesis in PhD:** Indole alkaloids isolated from *Neolamarckiacadamba* (Rubiaceae), *Alstoniaangustifoliavar. latifolia* (Apocynaceae), their biological and corrosion inhibition activities.

**Thesis in M.Sc:** Non-polar terpenic constituents from *Viola Odorata*& polar terpenic constituents from *Artemisia Maritima*.

### Research Grants

Project Title	Principal/Co-Principal Investigator	Amount	Sponsoring Agency	Duration
Applications of Metalloporphyrins in Homo and Hetero-geneous Systems - <b>Completed</b>	Co-Principal Investigator	PKR 0.48 Million	Start-up Research Grant Program by Higher Education Commission (HEC), Pakistan	1 Year
Chemical Constituents of <i>Neolamarckiacadamba</i> (Family: Rubiaceae) – <b>Completed</b>	Principle Investigator	RM 20,000.0 Million	University of Malaya, Kuala Lumpur, Malaysia	2 Years
Chemical Constituents of <i>Neolamarckiacadamba</i> (Family: Rubiaceae) – <b>Completed</b>	Co-Principal Investigator	RM 0.3 million, Almost PKR 9.0 Millions	University of Malaya, Kuala Lumpur, Malaysia	3 Years

### Academic Journals

2022

Farooq, U., Akter, S., **Qureshi, A. K.**, Alhuthali, H. M., Almeahmad, M., Allahyani, M., Alsaiari, A. A., Aljuaid, A., Farzana, M., Alhazmi A. Y. M. & Shahab, M. (2022). Arbutin Stabilized Silver Nanoparticles: Synthesis, Characterization, and its Catalytic Activity against Different Organic Dyes. *Catalysts*, (**Accepted: 03-12-2022**)

Shahazidy, U., Jamal, M. A., Muneer, M., Naseem, B., & **Qureshi, A. K.** (2022). Elucidation of molecular interactions between sugar alcohol and dimethyl sulfoxide in aqueous system: volumetric and acoustic study. *Journal of Molecular Liquids*, 118543.

**DOI:** <https://doi.org/10.1016/j.molliq.2022.118543>

<https://linkinghub.elsevier.com/retrieve/pii/S0167732222000782>

<https://www.sciencedirect.com/science/article/abs/pii/S0167732222000782>

## 2021

Tariq, M., Batool, A., Abbas, N., Hussain, A., **Qureshi, A. K.**, & Shirazi, J. H. (2021). Synthesis, characterization, anti-microbial and cytotoxic applications of zinc (II) complexes. *Bulletin of the Chemical Society of Ethiopia*, 35(2), 287-299.

**DOI:** <https://dx.doi.org/10.4314/bcse.v35i2.6>

**Qureshi, A. K.**, Liew, S. Y., Othman, N. A., & Awang, K. (2021). Phytochemical constituents from *Neolamarckiacadamba* (Roxb.) Bosser. *Biochemical Systematics and Ecology*, 96, 104257. (Accepted: February 27, 2021)

**DOI:** <https://doi.org/10.1016/j.bse.2021.104257>

<https://www.sciencedirect.com/science/article/pii/S0305197821000351?via%3Dihub>

Tariq, M., **Qureshi, A. K.**<sup>\*</sup>, Karim, S., Sirajuddin, M., Abbas, N., Imran, M., & Shirazi, J. H. (2021). Synthesis, characterization and fuel parameters analysis of linseed oil biodiesel using cadmium oxide nanoparticles. *Energy*, 222, 120014.

**DOI:** <https://doi.org/10.1016/j.energy.2021.120014>

Abid, M. A., Hussain, S., Intisar, A., Rizwan, M., Mutahir, Z., Yar, M., Aamir, A., **Qureshi, A. K.**, Jamil, M. (2021). Synthesis, Characterization, Hydrolytic Degradation, Mathematical modeling and Antibacterial Activity of Poly[bis((methoxyethoxy)ethoxy)phosphazene] (MEEP). *Polymer Bulletin*. 1-4. (Accepted: December 12, 2020)

**DOI:** <https://doi.org/10.1007/s00289-021-03625-w>

<https://link.springer.com/article/10.1007/s00289-021-03625-w>

## 2020

Ali, U., Maalik, A., Taj, M. B.<sup>\*</sup>, Raheel, A.<sup>\*</sup>, **Qureshi, A. K.**, Imran, M., Sharif, M., Tirmizia, S. A.<sup>\*</sup>, Noor, S.<sup>\*</sup>, HebaAlshater, H. (2020). Facile Synthesis, Solubilization Studies and Anti-Inflammatory Activity of Amorphous Zinc (II) Centered Aldimine Complexes. *Revue Roumaine de Chimie*. 65(10), 929-941.

**DOI:** <http://revroum.lew.ro/wp-content/uploads/2020/10/Art%2008.pdf>

Ahmad, K., Nazir, M. A., **Qureshi, A. K.**, Hussain, E., Najam, T., Javed, M. S., Shah S. S. A., Tufail, M. K., Hussain, S., Khan, N. A. Shah, H. R. And Ashfaq, M. (2020). Engineering of Zirconium based metal-organic frameworks (Zr-MOFs) as efficient adsorbents. *Materials Science and Engineering: B*, 262, 114766.

**DOI:** <https://doi.org/10.1016/j.mseb.2020.114766>

Khan, M. N., Khan, M. A., Saeed, M. K., **Qureshi, A. K.**, & Sheikh, A. A. (2020). Thiochromenopyridines-II: Antibacterial and antioxidant 9-benzylideneamino-5H-thiochromeno [2, 3-b] pyridin-5-ones. *JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN*, 42 (6), 899-908. ISSN: 0253-5106. (Accepted July 13, 2020)

<https://jcsp.org.pk/issueDetail.aspx?aid=35705ed0-e99e-4629-ba4c-a5aeff04d8bf>

Abid, A., Hussain, S., Khan, **Qureshi, A. K.**,\*, Jamil, M., Rehman, H. And Rauf, A. (2021). Mathematical Modeling of Polyphosphazenes. *ActaChemica Malaysia (ACMY)*. 5 (1), 1-5. ISSN: 2576-6732 (Print), ISSN: 2576-6724 (Online). (Accepted: July 04, 2020).

**DOI:**[10.2478/acmy-2021-0001](https://doi.org/10.2478/acmy-2021-0001)

<https://sciendo.com/article/10.2478/acmy-2021-0001>

Tariq, M., **Qureshi, A. K.**\*, Hamid, M., Abbas, N., Hussain, A. And Khan, M. N. (2020). Organotin (IV) based Rabeprazole and Pregabalin Complexes Formation and Biocidal Investigation. *ActaChemica Malaysia (ACMY)*, 4 (1), 17-23. ISSN: 2576-6732 (Print), 2576-6724 (Online) (Accepted: May 8, 2020)

<https://sciendo.com/article/10.2478/acmy-2020-0003>

**DOI:**[10.2478/acmy-2020-0003](https://doi.org/10.2478/acmy-2020-0003)

## 2019

Tariq, M.\*, **Qureshi, A. K.**\*, Imran, M., Taj, M. B., Sirajuddin, M., Ali, S., and Abbas, N. (2019). Biodiesel- A transesterified product of non-edible castor oil. *Revue Roumaine de Chimie*, 64 (12), 1027-1036. ISSN: 0035-3930 (Accepted: December 04, 2019).

**DOI:** 10.33224/rrch.2019.64.12.02

<http://revroum.lew.ro/wp-content/uploads/2019/12/Art%2002.pdf>

Hayat, K., Afzal, M., Aqueel, M. A., Ali, S., Saeed, M. F., **Qureshi, A. K.**\*, Ullah, M. I., Khan, Q. M., Naseem, M. T., Ashfaq, U. & Damalas, C. A. (2019). Insecticide toxic effects and blood biochemical alterations in occupationally exposed individuals in Punjab, Pakistan. *Science Of The Total Environment*. 655, 102-111. ISSN: 0048-9697 (Accepted: November 13, 2018).

**DOI:**<https://doi.org/10.1016/j.scitotenv.2018.11.175>

## 2018

Ali, S., Farooqi, M. A., Sajjad, A., Ullah, M. I., **Qureshi, A. K.**\*, Siddique, B., Waheed, W., Sarfraz, M. & Ali Asghar, A. (2018). Compatibility of entomopathogenic fungi and botanical extracts against the wheat aphid, *Sitobionavenae* (Fab.) (Hemiptera:Aphididae). *Egyptian Journal of Biological Pest Control*, 28 (1), 1-6. ISSN: 2536-9342 (Published online: December 2018)

**DOI:**<https://doi.org/10.1186/s41938-018-0101-9>

Imran, M., Ramzan, M., **Qureshi, A.K.**, Khan, M. A. & Tariq, M. (2018). Emerging Applications of Porphyrins and Metalloporphyrins in Biomedicine and Diagnostic Magnetic Resonance Imaging. *Biosensors (Review)*. 8 (4), 95. ISSN 2079-6374. (Citescore 3.59 **Scopus**) (Published online: October 17, 2018)

**DOI:** <https://doi.org/10.3390/bios8040095>; **DOI:** <https://www.mdpi.com/2079-6374/8/4/95>

Aziz, B., Shakoor, A., **Qureshi A. K.**, Ali, K., Niaz, N. A., Farid, M. T, & Ali, I. (2018). Structural, Electrical, and Magnetic Properties of Ferrite–Polymer Composites. *Journal of Electronic Materials*. 47 (11), 6437-6442. Print ISSN 0361-5235; Online ISSN 1543-186X(Published online: August 1, 2018)

**DOI:** <https://doi.org/10.1007/s11664-018-6542-9>

## 2017

Lou, Y., Shi, J., Guo, D., **Qureshi, A. K.**, & Song, L. (2017). Function of PD-L1 in antitumor immunity of glioma cells. *Saudi journal of biological sciences*, 24(4), 803-807. ISSN 1319-562X. (Published on: June 22, 2015)

**DOI:** [10.1016/j.sjbs.2015.06.025](https://doi.org/10.1016/j.sjbs.2015.06.025)



## 2014

Raja, P. B., Rahim, A. A., Qureshi, A. K., & Awang, K. (2014). Green synthesis of silver nanoparticles using tannins. *Materials Science-Poland*, 32(3), 408-413. PRINT ISSN 2083-1331; ONLINE ISSN 2083-134X. (Published: September 1, 2014)

DOI:<https://doi.org/10.2478/s13536-014-0204-2>;

DOI:<http://link.springer.com/article/10.2478/s13536-014-0204-2#page-1>

Ashraf, M. A., Qureshi, A. K., Gharibreza, M., Rehman, M. A., Ahmad, I., & Yusoff, I. (2014). Intercationic effect on biosorbent efficacy. *Desalination and Water Treatment*, 52(7-9), 1504-1513. ISSN 1944-3994. (Published: February 23, 2014)

DOI:<http://www.tandfonline.com/doi/abs/10.1080/19443994.2013.788456>

Ashraf, M. A., Ullah, S., Ahmad, I., Qureshi, A. K., Balkhair, K. S., & AbdurRehman, M. (2014). Green biocides, a promising technology: current and future applications to industry and industrial processes. *Journal of the Science of Food and Agriculture*. 94(3), 388-403. ISSN: 0022-5142. (Published: February 1, 2014)

DOI:<http://onlinelibrary.wiley.com/doi/10.1002/jsfa.6371/abstract>

## 2013

Ashraf, M. A., Mahmood, K., Wajid, A., Qureshi, A. K., & Gharibreza, M. (2013). Chemical constituents of Haloxylonsalicornicum plant from Cholistan Desert, Bahawalpur, Pakistan. *Journal of Food, Agriculture and Environment*, 11(3-4), 1176-1182. ISSN: 1459-0255. (Published: September 14, 2013)

DOI:<https://www.wfpublisher.com/Abstract/4822>

DOI:<https://doi.org/10.1234/4.2013.4822>

Raja, P. B., Fadaeinasab, M., Qureshi, A. K., Rahim, A. A., Osman, H., Litaudon, M., & Awang, K. (2013). Evaluation of green corrosion inhibition by alkaloid extracts of ochrosiaoppositifolia and isoreserpiline against mild steel in 1 M HCl medium. *Industrial & Engineering Chemistry Research*, 52(31), 10582-10593. ISSN: 0888-5885. (Published: July 29, 2013)

DOI:<http://pubs.acs.org/doi/pdf/10.1021/ie401387s>

Ashraf, M. A., Mahmood, K., Yusoff, I., & Qureshi, A. K. (2013). Chemical constituents of Cenchrusciliaris L. from the Cholistan desert, Pakistan. *Archives of Biological Sciences*, 65(4), 1473-1478. ISSN: 0354-4664. (Published: June 3, 2013)

DOI:<http://archonline.bio.bg.ac.rs/VOL65/SVESKA4/26%20-%20Ashraf.pdf>

Raja, P. B., Qureshi, A. K., Rahim, A. A., Osman, H., & Awang, K. (2013). Neolamarckiacadamba alkaloids as eco-friendly corrosion inhibitors for mild steel in 1M HCl media. *Corrosion Science*, 69, 292-301. ISSN: 0010-938X. (Published: April 30, 2013)

DOI:<http://www.sciencedirect.com/science/article/pii/S0010938X12006269>

Ashraf, M. A., Maah, M. J., Qureshi, A. K., Gharibreza, M., & Yusoff, I. (2013). Synthetic polymer composite membrane for the desalination of saline water. *Desalination and Water Treatment*, 51(16-18), 3650-3661. ISSN: 1944-3994 (Published: April 1, 2013)

DOI:<http://www.tandfonline.com/doi/abs/10.1080/19443994.2012.751152#preview>

Raja, P. B., Qureshi, A. K., Rahim, A. A., Awang, K., Mukhtar, M. R., & Osman, H. (2013). Indole alkaloids of alstoniaangustifolia var. latifolia as green inhibitor for mild steel corrosion in 1 M HCl media. *Journal of Materials Engineering and Performance*, 22(4), 1072-1078. ISSN: 1059-9495. (Published: April 1, 2013)

DOI:<https://doi.org/10.1007/s11665-012-0347-4>

2012

Mukhtar, M. R., Osman, N., Awang, K., Hazni, H., **Qureshi, A. K.**, Hadi, A. H. A., Zaima, K., Morita, H. & Marc Litaudon, M. (2012). Neonaucine, a new indole alkaloid from the leaves of *Ochreinaucleamaingayii* (Hook. f.) Ridsd. (Rubiaceae). *Molecules*, 17 (1), 267-274. ISSN: 1420-3049. (Published: December 28, 2011)

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**Qureshi, A. K.**, Mukhtar, M. R., Hirasawa, Y., Hosoya, T., Nugroho, A. E., Morita, H., Osamu Shirota, O., Muhamad, K., Hadi, A. H. A., Litaudon, M. & Awang, K. (2011). Neolamarckines A and B, new indole alkaloids from *Neolamarckiacadamba*. *Chemical and Pharmaceutical Bulletin* 59(2), 291-293. ISSN: 0009-2363. (Published: February 1, 2011)

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Khan, M. N., Munawar, M. A., Munawar, S., **Qureshi, A. K.**, & Rehman, S. (2008). Characterization of essential oil of local varieties of *Citrus grandis*. *Journal of the Chemical Society of Pakistan*, 29(3), 272-274. ISSN: 0253-5106. (Published: June 1, 2007)

<http://jcsp.org.pk/ArticleUpload/1193-5274-1-PB.pdf>

Furthermore, five more research articles are in process.

## **Conferences, Symposiums, Seminars and Workshops**

### **Organizer**

- 6th International & 16th National Chemistry Conference, under the Auspices of the Chemical Society of Pakistan.

**06-08 April 2006**, BahauddinZakariya University Multan, Pakistan, (International).

### **Oral presentations**

- **Key Note Speaker**

**Title:** Natural Products and their Applications

International 2021 Research Symposium: \Chemistry & Physics\”,

**20 February 2021**, University of Sahiwal arranged by University of Sahiwal ORIC

- **Title:** Size Controlled Green Synthesis and Characterization of Silver Nano-particles by using *Ammivisnaga* (L.) Lam. And their insecticidal Activities.

International Conference: 5<sup>th</sup> Conference on \“Frontiers of Nanoscience and Nanotechnology\”,

**24-25 September 2019**, Organized by Nanomaterials Research Group, Physics Division, Directorate of Science at Pakistan Institute of Nuclear Science & Technology (PINSTECH), Islamabad, Pakistan.

- **Title:** Synthesis of Biodiesel Using Metal Oxides Nano-particles as Catalyst and FTIR, NMR, GC-MS Analysis of Synthesised Biodiesel.

International Chemistry Conference: \“Forefronts of Chemistry, Celebrating the Periodic Table Year 2019\”,

**27-29 March 2019**, Jointly Organized by Institute of Chemical Sciences, BahauddinZakariya University (BZU) Multan, Royal Society of Chemistry, Pakistan Local Section, Higher Education Commission, Pakistan and ORIC BZU Multan, Pakistan.

- **Title:** Facil Conversion of Mustard Oil into Biodiesel by Zn, Cd, Complexes and Their Nano-oxides.

- **Title:** Neat Synthesis of Bio-Active Copper (II) (Z)-N-(2-Amino-4-Methylphenyl)-N'-Phenylbenzamidine And Its Light-Driven Photo Catalytic Activity.
- **Title:** Synthesis of Molybdenum, Tungsten Supported Calcium Oxide (MoW-CaO) And It's Role in Transesterification of Mustard Oil.

International Symposium: \ “On Technologies and Materials for Renewable Energy, Environment & Sustainability \”,

**06-07 February 2019**, Department of Chemistry, University of Agriculture Faisalabad, Pakistan.

- **Title:** Indole alkaloids isolated from *Neolamarckiacadamba* (Family: Rubiaceae) showed *iNOS* inhibition in dose dependent manner.
- **Title:** Evaluation of Brassica compact blocks as coccinellids source for aphid management on adjacent wheat crop.
- **Title:** Response of *Pieris brassicae* L. (*Lepidoptera: Pieridae*) towards some botanicals and synthetic insecticides.

National Conference on Plant: \ “From Food to Phytomedicine \”,

**03-04 May 2018**, Jointly Organized by University of Malakand & University of Sargodha Sponsored by Higher Education Commission Pakistan.

- **Title:** Nano and bulk catalytic transesterification of vegetable oil in to renewable energy-biodiesel.

9<sup>th</sup> Chemistry Conference 2017 \ “Chemistry in Engineering & Life Sciences \”,

**19-21 September 2017**, Dr. I. H. Usmani Auditorium, Pakistan Institute of Nuclear Science and Technology (PINSTECH) (International)

- **Title:** Alkaloids isolated from Malaysian Rubiaceae.

12<sup>th</sup> International Symposium on Natural Products Chemistry,

**22-25 November 2010**, HEJ, University of Karachi, Pakistan. (International).

## Poster presentations

- **Title:** Biogenic Synthesis of Silver Nano-particles via *Flacourtiaindica* Leaf Extract and Its Anti-biofilm Activity.

2<sup>nd</sup> International Conference on Chemistry (ICC) \ “Advances in the field of Polymer, Materials and Biochemistry \”,

**26-27 April 2019**, Organised by Department of Chemistry, Lahore Garrison University, Lahore, Pakistan.

- **Title:** Chemical constituents from *Neolamarckiacadamba* (Rubiaceae).

International Conference on natural Products \ "From Nature to Medicine through sustainable Education, R&D and Practice \",

**10-12 December 2010**, University Science, Malaysia., (International).

- **Title:** Preliminary studies of chemical constituents from *Neolamarckiacadamba* (Rubiaceae)

International Conference of Molecular Chemistry \ “drug development and discovery \”,

**25-27 November 2008**, University Malaya, Kuala Lumpur, Malaysia., (International).

## Participations

- **As a Chair for Chemistry Oral presentations sessions as well as Judge for Paper Evaluations**

**Title:** Natural Products and their Applications

International 2021 Research Symposium: \Chemistry & Physics \”,

**20 February 2021**, University of Sahiwal arranged by University of Sahiwal ORIC

- **Title:** Workshop on Leadership Development and Professionalism

**16 September 2019**, Workshop arranged by QEC University of Sahiwal held at Academic Block I, University of Sahiwal

➤ **Title:** Two-Days National Workshop on Material Modelling and Simulation.  
**09-10 April 2019**, Material Science Group at Department of Physics, University of Gujrat, Gujrat, Pakistan.

➤ **Title:** IWNS&T 2018 International Workshop on Nano Science & Technology.  
**30-31 October 2018**, The University of Haripur, Khyber Pakhtunkhwa, Haripur, Pakistan.

➤ **Title:** Awareness Seminar on Technology Development Fund (TDF) for Academia and Industry Joint Venture Project to Introduce New Technologies in Pakistan. A Seminar jointly arranged by Office of Research, Innovation & Commercialization (ORIC), BZU, Multan and Ministry of Higher Education Commission (HEC) Pakistan.  
**15 May 2018**, Institute of Management Sciences, BahauddinZakariya University, Multan, Pakistan.

➤ **Title:** Stakeholder Engagement Session for Clean Development Mechanism (CDM) and Environment Assessment- Khadim-E-Punjab Ujaala Program (KPUP).  
**13 February 2018**, Organized by Government of the Punjab, Project Management Unit (PMU) Energy Department at RAMADA Multan.

➤ **Title:** Recent Challenges and Chemical Sciences  
A Day Long International Conference: \“Recent Challenges and Chemical Sciences: \”,  
**22 December 2017**, Organized by Institute of Chemical Sciences, BahauddinZakariya University, Multan, Pakistan and The Royal Society of Chemistry, Pakistan Local Section at Institute of Chemical Sciences, BahauddinZakariya University, Multan, Pakistan)

➤ **Title:** Exploring Solutions in the Changing World  
**05-08 October 2015**, 26<sup>th</sup> National and 14<sup>th</sup> International Chemistry Conference of the Chemical Society of Pakistan organised by Department of Chemistry, The Islamia University of Bahawalpur

### **Other Qualifications and Trainings**

- NMR Short Course/ UniversitiTeknologi Mara, PuncakAlam, Malaysia/ Theory and on hand training of NMR technique; February 17, 2011 to February 18, 2011.
- The Principles and Applications of Chromatographic Systems (GC and HPLC) Analysis and Techniques/ University of Malaya, Kuala Lumpur, Malaysia/ Theory and on hand training of GC and HPLC; June 01, 2009 to June 05, 2009.
- Postgraduate Seminar on Phytochemistry/ University of Malaya, Kuala Lumpur, Malaysia/ On hand training of structural elucidation of natural products by using spectroscopic techniques; May 15, 2009. (One Day)
- Staff Development Course by HEC/ BahauddinZakariya University, Multan, Pakistan/ Teachers training course under the scheme National; June 09,2005 to July 02, 2005.
- Teacher Training Course/ American School of International Academics, Multan, Pakistan/ Teachers Training Course; July 01, 2002 to July 5, 2002.
- Short term Diploma of C Language (Computer)/ FACS College of Computer Science (Regd.), Multan, Pakistan/ On hand training of DOS, C/ C++ language; April 20, 1999 to July 20, 1999.
- Short term Diploma of Foxpro (Computer)/ FACS College of Computer Science (Regd.), Multan, Pakistan/ On hand training of DOS, WINDOWS, FOXPRO for DOS and Windows; April 20, 1999 to July 20, 1999.

## **References**

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*(References can be provided upon request).*