

Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Gender

Summary

Shaikh, Waqas Jamil

Bungalow No.6, Block-D, Mir Fazal Town Latifabad No.9, Hyderabad, Sindh, Pakistan

+92-332-2324551

waqas143kh@yahoo.com, waqasjam2@yahoo.com

Pakistani

Male

Assistant Professor at Institute of Advanced Research Studies in Chemical Sciences (IARSCS), University of Sindh, with 5 years of research and teaching experience, producing powerful learning opportunities for corporate and higher education. Recognized for teaching excellence and effective research in the field of organic synthesis and spectroscopy.

Employment History

2014 – present

Assistant Professor at [IARSCS/HTCRL, University of Sindh](#)

2009 – 2013

Lecturer at [IARSCS/HTCRL, University of Sindh](#)

2008 – 2009

Organic Chemistry Teacher at [H.E.J. R.I.C. I.C.C.B.S., University of Karachi](#)

2005 – 2006

Research Associate at [H.E.J. R.I.C. I.C.C.B.S., University of Karachi](#)

2004 – 2005

Quality Assurance Officer at [Habib Oil Mills \(Pvt\) Ltd.](#)

Education

2012

Ph.D. in Chemistry - [H.E.J. R.I.C. I.C.C.B.S., University of Karachi](#)

2003

M.Sc. in Organic Chemistry - [University of Sindh, PK](#)

2002

B.Sc. in Chemistry - [University of Sindh, PK](#)

1999

HSSC (Pre-Med) - [BISE, Hyderabad](#)

1997

SSC (Science) - [BISE, Hyderabad](#)

Areas of Expertise

- Organic Synthesis, Bioorganic and Medicinal Chemistry.
- Chemical Process and Unit Operation.
- Spectroscopy and Chromatography.
- Nano Particle Synthesis.

Currently Working

- Design and Synthesis of Metal complexes in search of Medicinal and Analytical Application.
- Development of Green Synthetic Methods for the Synthesis of Nano Particles.

Instrumental skills

Molecular Spectroscopy - NMR, Mass, UV/Visible, FTIR

Thermal Methods - TG/DTA

Separation Methods - GC/GCMS, HPLC

Synthetic Techniques Expertise - Microwave, Ultrasonication, Glove Box

Computer skills

Operating System - DOS, Microsoft Windows

Office Application Software - Microsoft Office (Word, Excel, PowerPoint)

Chemistry Application Software - CambridgeSoft ChemBioOffice Ultra

Research Survey Software's - Scifinder and other knowledge based softwares

Honors and Awards

- 2014 Moulana Mohammad Ali Johar Award from Johar Foundation for Academic achievements
- 2008 Secured 51 percentile in International GRE Chemistry (ETS, USA.)
- 2006 A shield was awarded by Prof. Dr. Atta-ur-Rehman (Former Federal Minister and Chairman Higher Education Commission) for Coordination work with Prof. Dr. Khalid Mohammed Khan in 3rd National Chemistry Talent Contest, held at HEJ Research Institute of Chemistry, International Centre for Chemical and Biological Sciences, University of Karachi

Courses and Training

- 2011 Mass Spectroscopy Course **Mass Spectroscopy Survey** delivered by Prof Dr. David Smith of University of Nebraska Lincoln, NE 68006 USA held at H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan
- 2007 Spectroscopy Training course **NMR Concepts and Operating Techniques** delivered by Dr. Daniel D. Traficante, Former Director of M.I.T., USA held at H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan. A seven full fledged courses in Advance Organic Chemistry – General Spectroscopy(701), Mechanism and Structure Reactivity Relationship(702), Stereochemistry(703), Practical Course-I(704), Biosynthesis and Isolation of Natural Products and Bioassay Screenings(705), Organic Synthesis(706), Practical Course-II(707)
- ISO 9001: 2000 Lab Custodian for Lab # 315 at H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan

International Conferences and Workshops

- 2013 Participant of 4th International Symposium-cum-Training Course on Molecular Medicine and Drug Research held at Dr Panjwani Center for Molecular Medicine and Drug Research, H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan
- 2010 Participant of International Conference on Sustainable Water Management held at Mehran University of Engineering and Technology, Jamshoro, Pakistan
- 2008 Participant of 11th International Symposium on Natural Product Chemistry held at H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan
- 2006 Participant of 10th International Symposium on Natural Product Chemistry held at H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan
- Participant of One day Seminar on Patenting Skills held at H.E.J. R.I.C. I.C.C.B.S. University of Karachi, Pakistan

Students under Supervision

- 2013 **Sorath Solangi** - Synthesis Characterization of Isatin Schiff Bases Metal Complexes and their Medicinal Application. (*Registered for Ph.D.*)
- 2013 **Pirkash Nangani** - Synthesis, Characterization of 3-Amino Propyl Trimethoxy Silane Derivatives and their Bioactivities as Therapeutic Agents. (*Registered for M.Phil.*)
- 2013 **Nazim Pervaiz** - Synthesis, Characterization of Aryl Hydrazide Derivatives and Study of their Complexing Ability for the Determination of Metal Ions. (*Registered for M.Phil.*)
- 2013 **Abid Ali** - Synthesis, Characterization, and Dying Applications of New Azo Compounds. (*Registered for M.Phil.*)
- 2014 **Kifayatullah Korejo** - Synthesis and Characterization of Thiourea Derivative Metal Complexes for Bioactivities. (*Registered for M.Phil.*)
- 2014 **Javed Ahmed** - Thermo Gravimetric Analysis of some Pharmaceutical compounds from Synthetic and Natural Sources. (*Registered for M.Phil.*)

Additional information

Annexes

- 1 List of publications

Attachment 1: List of publications

Publications

- [1] A. N. Aziz, M. Taha, N. H. Ismail, E. H. Anouar, S. Yousuf, W. Jamil, K. Awang, N. Ahmat, K. M. Khan, and S. M. Kashif, "Synthesis, crystal structure, dft studies and evaluation of the antioxidant activity of 3,4-dimethoxybenzenamine schiff bases," *Molecules*, vol. 19, pp. 8414–8433, June 2014.
- [2] W. Jamil, S. Perveen, S. A. A. Shah, M. Taha, N. H. Ismail, S. Perveen, N. Ambreen, K. M. Khan, and M. I. Choudhary, "Phenoxyacetohydrazide schiff bases: Beta-glucuronidase inhibitors," *Molecules*, vol. 19, no. 7, pp. 8788–8802, 2014.
- [3] K. M. Khan, W. Jamil, N. Ambreen, M. Taha, S. Perveen, and G. A. Morales, "An expeditious synthetic approach towards the synthesis of bis-schiff bases (aldazines) using ultrasound," *Ultrasonics Sonochemistry*, vol. 21, pp. 1200–1205, May 2014.
- [4] M. Taha, N. H. Ismail, M. Ali, K. M. Khan, W. Jamil, S. M. Kashif, and M. Asraf, "Synthesis of indole-2-hydrazones in search of potential leishmanicidal agents," *Medicinal Chemistry Research*, vol. 0, pp. 1–12, July 2014.
- [5] K. M. Khan, M. Taha, F. Rahim, M. I. Fakhri, W. Jamil, M. Khan, S. Rasheed, A. Karim, S. Perveen, and M. I. Choudhary, "Acyldiazide schiff bases: Synthesis and antiglycation activity," *Journal of the Chemical Society of Pakistan*, vol. 35, no. 3, pp. 929–937, 2013.
- [6] M. Taha, N. H. Ismail, W. Jamil, S. Yousuf, F. M. Jaafar, M. I. Ali, S. M. Kashif, and E. Hussain, "Synthesis, evaluation of antioxidant activity and crystal structure of 2,4-dimethylbenzoylhydrazones," *Molecules*, vol. 18, no. 9, pp. 10912–10929, 2013.
- [7] K. M. Khan, W. Jamil, N. Ambreen, A. Ameen, S. Saied, M. Kanwal, A. Ahmed, and S. Perveen, "Synthesis, antibacterial and antifungal activities of 3-amino-5-methyl[1,1'-biphenyl]-2,4-dicarbonitrile derivatives," *Letters in Drug Design and Discovery*, vol. 9, no. 6, pp. 618–624, 2012.
- [8] K. M. Khan, M. Taha, F. Rahim, W. Jamil, S. Perveen, and M. I. Choudhary, "An efficient synthesis of substituted bis(indolyl)methanes using sodium bromate and sodium hydrogen sulfite in water," *Journal of the Iranian Chemical Society (JICS)*, vol. 9, pp. 81–83, February 2012.
- [9] K. M. Khan, M. Taha, F. Rahim, M. Ali, W. Jamil, S. Perveen, and M. I. Choudhary, "An improved method for the synthesis of disulfides by periodic acid and sodium hydrogen sulfite in water," *Letters in Organic Chemistry*, vol. 7, pp. 415–419, July 2010.
- [10] W. Jamil and K. M. Khan, "Synthesis and in vitro anti bacterial and dpph scavenging effect study of phthalazine derivatives," in *19th National Chemistry Conference*, Department of Chemistry, Kohat University of Science and Technology, June 2009.
- [11] W. Jamil, K. M. Khan, and K. M. Azeem, "Synthesis of tryptophan derivatives, their biological evaluation and use in protein engineering," in *11th International Symposium on Natural Product Chemistry*, H.E.J. R.I.C. I.C.C.B.S., University of Karachi, October 2008.