

# Muhammad Moazzam Naseer (Ph.D.)

(HEC Approved Supervisor)

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Assistant Professor

Department of Chemistry

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## Personal

Father's Name	Naseer Ahmad
Date of Birth	09-10-1979
Passport No.	BB9826502
Domicile	Chakwal, Punjab (Pakistan)
Subject	Organic Chemistry
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## Education

**PhD (Organic Chemistry):** Institute of Chemistry, Chinese Academy of Sciences, Beijing, China. (2007-2011).

**Supervisor: Prof. Dr. Mei-Xiang Wang**

**Thesis Title:** "Construction of large molecular cages based on heterocalixaromatics"

**M.Phil (Organic Chemistry):** Bahauddin Zakariya University, Multan, Pakistan. (2002-2004)

**Supervisor: Prof. Dr. Humayun Pervez**

**Thesis Title:** "Synthesis of Some 1-Acetylisatin-3-Hydrazones as Potential Antibacterial, Antifungal, Antileishmanial and Cytotoxic Agents"

**M.Sc (Chemistry):** University of Agriculture, Faisalabad, Pakistan. (2000-2002)

**Supervisor: Prof. Dr. Rakhshanda Nawaz**

**Thesis Title:** "Urinary Excretion of N(2,3-Xylyl)anthranilic acid in females"

## Professional Experience

- Working as Assistant Professor in the Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan. (December 11, 2012 to date)
- Worked as Lecturer in the Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan. (September 14, 2012 to December 10, 2012)
- Worked as Assistant Professor (IPFP) in the Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan. (September 14, 2011 to September 13, 2012)
- Worked as Research Associate for the Research Project No.20-16/Acad(R&D)/2nd Phase/03/211 entitled “ Synthesis of Metal Based Sulfonamide Derived Novel Antibacterial, Antifungal and Antiviral Compounds” Granted By Higher Education Commission, in the Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan. (June 2004-June 2007)

## Awards and Honors

- Post Doc. Fellowship awarded by Alexander von Humboldt-Foundation, Germany, 2015
- Fully funded visit (travel grant) by Higher Education Commission (HEC) of Pakistan to attend “The Collaborative Conference on Crystal Growth (3CG)” to be held in Phuket, Thailand from 04-07 November, 2014.
- Fully funded visit (travel grant) by Higher Education Commission (HEC) of Pakistan to attend an “International Conference on Pure and Applied Chemistry” (ICPAC2014) held in Mauritius from 23-27 June, 2014.
- Research Productivity Award 2012, (Cash Prize) awarded in 2014.
- Member, Editorial Board, “Universal Journal of Chemistry” published by Horizon Research Publishing, USA, ISSN 2332-3019 (Print), 2332-3027 (Online)
- HEC Overseas Scholarship Award for Ph.D., Phase-II, Batch-1 (China). (2007)
- HEC Indigenous Ph.D. fellowship (2006) [not availed]
- Scientific Talent Scholarship Award. (2003-2004)

## Academic Activities

### a) Courses Taught

Course Title	Credit Hours	Ph.D/M.Phil/MSc
CH 341, Organic Chemistry-I	3	M.Sc

CH 342, Organic Chemistry Lab-I (Laboratory)	1	M.Sc
CH 343, Organic Chemistry-II	3	M.Sc
CH 344, Organic Chemistry Lab-II (Laboratory)	1	M.Sc
CH 440, Chemistry of Heterocycles	2	M.Sc
CH 441, Reaction Mechanism	3	M.Sc
CH 446, Retrosynthesis	3	M.Sc
CH-648 Chemistry of Organometallic Compounds	3	M.Phil/Ph.D
CH-470 Biochemistry	2	M.Sc
CH-440, Retrosynthesis	3	M.Phil/Ph.D
CH-201, Chemistry-III	3	BS
CH-201(Lab), Lab. Chemistry-III	1	BS

## b) Areas of Research Interest

Organic Synthesis

Bio-organic & Medicinal Chemistry

Supramolecular Chemistry of Novel Macrocyclic Host Molecules

Crystal Engineering

## c) Research Grants Obtained/Under Process

- Obtained research grant of Rs. ~4.3 million on a research project of 2 year duration entitled “Design, synthesis, structure and biological screening of heterocalixhetarenes” from Higher Education Commission (HEC) of Pakistan, 2014.
- Obtained research grant of USD ~8,000 on a research project of 1.5 years duration entitled “Hybrid molecular approach for novel antimalarial and antitubercular agents: Design, synthesis and biological evaluation” from TWAS, 2014.
- Obtained research grant of Rs. ~ 0.025 million on a research project of 1 year duration entitled “Synthesis of some new homologous 1,3,5-triarylpyrazolines for evaluation of lipophilicity-bioactivity relationship” from University Research Fund (URF, 2014) of Quaid-i-Azam University.
- Obtained research grant of Rs. ~0.045 million on a research project of 1 year duration entitled “*N*-Bridged bis-triazines: Synthesis, characterization and biological evaluation” from University Research Fund (URF, 2013) of Quaid-i-Azam University.
- Obtained research grant of Rs. 0.5 million on a research project of 9 months duration entitled “Synthesis of 1,3,5-triazine derived novel compounds and evaluation of their biological significance” from Higher Education Commission, Govt. of Pakistan. (December 1, 2011 – August 31, 2012)

## d) Research Supervision

### i) M.Phil

No.	Title	Name of the student	Year
1.	New triazine-based potential biologically active compounds: synthesis and characterization	Shumaila Razzaque	January 2013 (Completed)
2.	Synthesis and characterization of potential biologically active <i>bis</i> -isatins	Zer Afshan	July 2013 (Completed)
3.	Synthesis, characterization and DNA interaction studies of some new 2-pyrazolines	Faiza Anam	January 2014 (Completed)
4.	Synthesis of potential biologically active prazolines based on <i>bis</i> -chalcones	Shumaila Ashraf	July 2014 (Completed)
5.	Biologically Active Homologous Pyrazoles: Synthesis and Characterization	Maria Maqbool	January 2015 (Completed)
6.	Synthesis and Characterization of Isatin-Based Spiro Heterocycles as Potential Biologically Active Molecules	Hira Arzoo	January 2015 (Completed)
7.	-	Maria Bibi	July 2015 In progress
8.	-	Rida Shafiq	July 2015 In progress
10.	-	Zartasha Naseem	January 2016 In progress

### (ii) Ph.D

No.	Title	Name of the student	Enrolled
1.	-	M. Ifzan Arshad	Jan. 2013
2.	-	M. Shoaib	Jan. 2013
3.	-	M. Zafar	Jan. 2013
4.	-	Majid Ali	Sep. 2013
5.	-	Saira Khattoon	Feb. 2014

## e) Conferences Attended

- INVITED ORAL PRESENTATION entitled “CH- $\pi$ ,  $\pi$ - $\pi$  and Weak Hydrogen Bonds in Crystal Engineering” in the Collaborative Conference on Crystal Growth (3CG)” to be held in Phuket, Thailand from 04-07 November, 2014.
- ORAL PRESENTATION entitled “Giant Molecular Cages: Synthesis and Efficient Surface Functionalization” in the International Conference on Pure and Applied Chemistry (ICPAC2014) held in Mauritius from 23-27 June, 2014.
- ORAL PRESENTATION entitled “Large Cavity Heteroatom Bridged Calixaromatics: Construction and Functionalization” in the 12<sup>th</sup> International and 24<sup>th</sup> National Chemistry Conference held in Bahauddin Zakariya University, Multan- Pakistan from 28-30 October, 2013.

- Attended as participant most of the conferences and symposia held in Beijing during 2007-2011, where listened many Nobel Laureate Lectures (Lehn, Suzuki, Negishi etc).
- Participated in the 6th international & 16th national chemistry conference held at department of chemistry B. Z. U., Multan 6-8 April 2006, Organized the conference as a member of student organization committee.
- Participated in 33rd All Pakistan Science Conference, 25-28 December, 2002. University of Agriculture, Faisalabad.

## f) Publications:

- 1) Jawaria, R.; Hussain, M.; Shafiq, Z.; Ahmad, H. B.; Tahir, M. N.; Shad H. A.; **Naseer, M. M.** Robustness of thioamide dimer synthon, carbon bonding and thioamide-thioamide stacking in ferrocene-based thiosemicarbazones. *CrystEngComm*, **2015**, DOI: 10.1039/C4CE02566K. (IF 3.858)
- 2) Dereli, Ö.; Bahçeli, S.; Abbas, A.; **Naseer, M. M.** Quantum chemical investigations of a co-crystal of 1,3,5-tris(4-hydroxyphenyl)benzene and 2,4,6-trimethoxy-1,3,5-triazine. *Monatsh Chem.* **2015**, DOI 10.1007/s00706-015-1413-z. (IF 1.347)
- 3) Youssoufi, M.H.; Hadda, T.B.; Warad, I.; **Naseer, M.M.**; Mabkhot, Y.N.; Bader, A. POM analyses of anti-kinase activity of thirteen peptide alkaloids extracted from *Zizyphus* species. *Med. Chem. Res.* **2015**, *24*, 267–274. (IF 1.612)
- 4) Anam, F.; Abbas, A.; Lo, K.M.; Zia-ur-Rehman; Hameed, S.; **Naseer, M.M.** Homologous 1,3,5-triarylpyrazolines: Synthesis, CH••• $\pi$  interactions guided self-assembly and effect of alkyloxy chain length on DNA binding properties. *New J. Chem.*, **2014**, *38*, 5617. (IF 3.159)
- 5) Abbas, A.; **Naseer, M.M.** Synthesis and Anti-inflammatory Activity of New *N*-Acyl-2-pyrazolines Bearing Homologous Alkyloxy Side Chains. *Acta Chim. Slov.*, **2014**, *61*, 792-802. (IF 0.810)
- 6) **Naseer, M.M.**; Wang, D.-X.; Zhao, L.; Wang, M.-X. Construction and Multiple Exterior Surface Functionalization of Giant Molecular Cages. *Eur. J. Org. Chem.*, **2014**, 7895-7905. (IF 3.154)
- 7) Ahmed, M. N.; Arshad, I.; Bo, W.; Hameed, S.; Khan, B. A.; Yasin, K. A.; **Naseer, M. M.** Molecular Structure of (1-Benzyl-4-phenyl-1*H*-1,2,3-triazol-5-yl)(4-

- bromophenyl)methanone: A Combined Experimental and Theoretical Study. *Chinese J. Struct. Chem.* **2014**, *33*, 1749-1756. (IF 0.477)
- 8) **Naseer, M.M.**; Abbas, A.; Hameed, S.; M. Farman. Suzuki-Miyaura cross-coupling reaction of dichloro-heteroaromatics: synthesis of functionalized dinucleophilic fragments. *J. Chil. Chem. Soc.* **2014**, *59*, 2717-2720. (IF 0.469)
  - 9) Zia-ur-Rehman; **Naseer, M.M.**; Shah, A.; Ali, S.; Meetsma, A. Steric and Electronic Influence on the Coordination Aptitude of 4-Formylpiperazine-1-Carbodithioate Toward Triorganotin(IV) Moieties. *Heteroatom Chem.*, **2014**, DOI: 10.1002/hc.21222. (IF 1.257)
  - 10) Hussain, A.; Kashif, M.K.; **Naseer, M.M.**; Rana, U.A.; Hameed, S. Synthesis and *in vivo* hypoglycemic activity of new imidazolidine-2,4-dione derivatives. *Res. Chem. Intermed.* **2014**, DOI: 10.1007/s11164-014-1814-3. (IF 1.540)
  - 11) Ahmad, M.; Pervez, H.; Hadda, T.B.; Toupet, L.; **Naseer, M.M.** Synthesis and solid state self-assembly of an isatin-thiazoline hybrid driven by three self-complementary dimeric motifs. *Tetrahedron Lett.*, **2014**, *55*, 5400.
  - 12) Abbas, A.; Kalsoom, S.; Hadda, T.B.; **Naseer, M.M.** Evaluation of 4-alkoxychalcones as a new class of antiglycating agents: a combined experimental and docking study. *Res. Chem. Intermed.* **2014**, DOI: 10.1007/s11164-014-1752-0. (IF 1.540)
  - 13) Abbas, A.; Gökce, H.; Bahceli, S.; **Naseer, M.M.** Spectroscopic (FT-IR, Raman, NMR and UV-vis.) and Quantum Chemical Investigations of (E)-3-[4-(Pentyloxy)phenyl]-1-phenylprop-2-en-1-one. *J. Mol. Struct.*, **2014**, *1075*, 352.
  - 14) Abbas, A.; Hussain, S.; Hafeez, N.; **Naseer, M.M.** Synthesis and spectral characterization of new homologous 1,3,5-triaryl-2-pyrazolines: Influence of alkyloxy chain length on fluorescence. *Spectrochim. Acta A*, **2014**, *133*, 182. (IF 2.163)
  - 15) Babar, T.M.; **Naseer, M.M.**; Ali, F.I; Rama, N.H; Hadda T.B. Synthesis and effect of substituent position on anti-inflammatory activity of 3-(halobenzyl)isocarbostyrils. *Med. Chem. Res.* **2014**, *23*, 4607-4618. (IF 1.612)
  - 16) Babar, T.M.; **Naseer, M.M.**; Rauf, M.K.; Pervez, H.; Abihara, M.; Rama, N.H. Synthesis of hexacyclic fused isocoumarin framework through selective domino multicyclizations under catalyst and solvent free conditions. *Chin. Chem. Lett.*, **2014**, *25*, 1282-1286.
  - 17) Arshad, I.; Ashraf, S.; Abbas, A.; Hameed, S.; Lo, K.M.; **Naseer, M.M.** Conformational isomerism in a conformational polymorph of 2,5-dibenzylidenecyclopentanone:

crystallographic and quantum chemical structures. *Eur. Chem. Bull.*, **2014**, *3*, 587-592.

- 18) Mabkhot Y.N.; Al-Majid, A.M.; Barakat, A.; Al-Showiman, S.S.; Al-Har, M.S.; Radi, S.; **Naseer, M.M.**; Hadda T.B. Synthesis and Biological Evaluation of 2-Aminobenzamide Derivatives as Antimicrobial Agents: Opening/Closing Pharmacophore Site. *Int. J. Mol. Sci.*, **2014**, *15*, 5115. (IF 2.339)
- 19) Abbas, A.; Hussain, S.; Hafeez, N.; Hassan, A.; **Naseer, M.M.** Synthesis and spectral characterization of new 1,3,5-triaryl-2-pyrazolines highlighting effect of alkoxy chain length on fluorescence. *Spectrochim. Acta A*, **2014**, *127*, 32. (IF 2.163)
- 20) Hadda, T.B.; Srivastava, S.; Das, B.; Salgado-Zamora, H.; Shaheen, U.; Bader, A.; **Naseer, M.M.** POM analyses of antimicrobial activity of some 2,3-armed 4,5,6,7-tetrahydro-1-benzothiophenes: favourable and unfavourable physico-chemical parameters in design of antibacterial and mycolytic agents. *Med. Chem. Res.*, **2014**, *23*, 995. (IF 1.612)
- 21) Nazir, H.; Zhang, W.; Liu, Y.; Chen, X.; Wang, L.; **Naseer, M.M.**; Ma, G. Silicone oil emulsions: strategies to improve their stability and applications in hair care products. *Int. J. Cosmet. Sci.*, **2014**, *36*, 124. (IF 1.451)
- 22) Abbas, A.; Nazir, H.; **Naseer, M.M.**; Bolte, M.; Hussain, S.; Hafeez, N.; Hassan, A. Synthesis, spectral characterization, self-assembly and biological studies of N-acyl-2-pyrazolines bearing long alkoxy side chains. *Spectrochim. Acta A*, **2014**, *120*, 176. (IF 2.163)
- 23) Abbas, A.; **Naseer, M.M.**; Hassan, A.; Hadda, T.B. Synthesis and Cytotoxicity Studies of 4-Alkoxychalcones as New Antitumor Agents. *J. Mater. Environ. Sci.* **2014**, *5*, 281.
- 24) **Naseer, M.M.**; Hameed, S. Synthons for supramolecular assemblies: synthesis of new triazine-core polyhydroxylated and multi-N-donor compounds. *Eur. J. Chem.* **2013**, *4*, 149.
- 25) **Naseer, M.M.**; Hameed, S. Layer-by-layer assembly of supramolecular hexagonal blocks driven by CH/ $\pi$  and  $\pi$ - $\pi$  interactions. *CrystEngComm*, **2012**, *14*, 4247. (IF 3.858)  
*Selected as an article of interest to crystal engineers from across the RSC journals (May, 10, 2012). Selected among top ten most accessed articles (June 27, 2012)*
- 26) **Naseer, M.M.**; Hameed, S. Double Suzuki Cross-Coupling Reaction of Pyrimidine Boronic Acid: Synthesis of New Versatile Dielectrophile. *Appl. Organomet. Chem.*, **2012**, *26*, 330. (IF 2.017)
- 27) **Naseer, M.M.**; Wang, D.-X.; Wang, M.-X. Synthesis of Oxacalix[2]m-terphenyl[2]triazine and Its Functionalizations. *Heterocycles*, **2012**, *84*, 1375. (IF 0.908)
- 28) **Naseer, M.M.**; Wang, D.-X.; Zhao, L., Huang, Z.-T.; Wang, M.-X. Synthesis and Functionalization of Heteroatom Bridged Bicyclocalixaromatics, Large Molecular Triangular Prisms with Electron Rich and Deficient Aromatic Interiors. *J. Org. Chem.*, **2011**, *76*, 1804. (IF 4.638)

- 29) Chohan, Z.H; **Naseer, M.M.** Metal Based Sulfonamides: Synthesis, Characterization, antibacterial, antifungal and cytotoxic properties of pyrrolyl and thienyl derived compounds. *Appl. Organomet. Chem.*, **2007**, *21*, 728. (IF 2.017)
- 30) Chohan, Z.H; **Naseer, M.M.** Organometallic based biologically active compounds: synthesis of mono- and di-ethanolamine derived ferrocenes with antibacterial, antifungal and cytotoxic properties, *Appl. Organomet. Chem.*, **2007**, *21*, 1005. (IF 2.017)
- 31) **Naseer, M.M.**; Nawaz, R.; Shafiq, M.; Rehman R. Spectrophotometric determination of mefenamic acid excreted as free drug in urine of human beings. *J. Res. (Sci.)*, **2007**, *18*, 211.
- 32) Chohan, Z.H; Rauf, A.; **Naseer, M.M.**; Somra, M.A; Supuran, C.T. Antibacterial, Antifungal and Cytotoxic Properties of Some Sulfonamide-Derived Chromones. *J. Enz. Inhib. Med. Chem.*, **2006**, *21*, 173. (IF 2.383)
- 33) Chohan, Z.H; Shaikh, A.U; **Naseer, M.M.**; Supuran, C.T. *In-Vitro* Antibacterial, Antifungal and Cytotoxic Properties of Metal Based Furanyl Derived Sulfonamides. *J. Enz. Inhib. Med. Chem.*, **2006**, *21*, 771. (IF 2.383)
- 34) Chohan, Z.H; Shaikh, A U; **Naseer, M.M.** Metal Based Isatin Bearing Sulfonamides: Their Synthesis, Characterization and Biological Properties. *Appl. Organomet. Chem.*, **2006**, *20*, 729. (IF 2.017)

**Total IF = 60.132**

## Academic References

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