CURRICULUM VITAE

Name	:	Dr. Niyaz Ahmad Mir
Address for correspondence	:	Assistant Prof.
		Dept. of Chemistry Govt.
		Degree College (Boys)
		Anantnag-192101
		Email: mirniyaz@gmail.com
Contact Number	:	09740371146
Father's Name	:	<i>(late)</i> Mohammad Munawar Mir
Date & Place of Birth	:	Feb., 20, 1985; J & K, India
Nationality	:	Indian

Academic Qualifications:

Examination Passed	Title of the Degree	Year of Passing	Max Marks	Marks Obtd.	%age	University /Board
Secondary	Secondary School Examination	1999	550	381	69.630	JKBOSE
Higher Secondary	Higher Secondary part II	2001	600	407	67.830	JKBOSE
Bachelor's Degree	B.Sc. (Honours)	2006	1500	1096	73.060	AMU
Master's Degree	M.Sc Chemistry(Organic)	2008	2400	1771	73.790	AMU

Academic Distinctions (if any)

S.No	Name of Academic Course/Body	Academic distinction obtained
1	B.Sc. (Hons.) Chemistry	His Majesty King Saud Gold Medal for securing highest marks in Theology at undergraduate level
2	M.Sc Chemistry	Qualified PG Merit Scholarship test

Eligibility Tests:

Eligibility Test	Year of Passing	Certificate No. :	Rank	Conducted By / Examination Body
NET with JRF	22-11-2010	2061010080	368	Joint CSIR-UGC

Research Details

Research Degree	Topic of research	Name of Guide	Date of Enrolment	Date of Award	University / Institution
Ph.D.	Heterogeneous photocatalysed reactions of few selected organic systems	Prof. Mohd Muneer	11-12-2008	23-08- 2018	AMU
PDF	Crystal engineering: Design of higher cocrstals	Prof. Gautam R. Desiraju	06-01-2014	30-11- 2015	IISC

Research Experience in a Project(s):

	Period	Period			Role in
Title of the Project/s	From	То	Funding	Amount	Project
Crystal engineering study of	28-05-	21-04-	DST	3,800,000.00	PI
photochemical and thermal Cycloaddition reactions	2014	2017	SERB		

Administrative or UG/PG Level Teaching Experience:

Position Held	Period of	f Service	Basic Pay and Grade		Main duties/Classes taught	Name & Address of the Institution
	From	То				
Assistant Professor	01-12- 2015	1-04- 2017	25590	6000	Teaching and Research	Aligarh Muslim University
Assistant Professor	22-04- 2017	ongoing	24850	6000	Teaching	Dept of Higher education Govt of J & K

Research Experience:

Position Held	Period o	of Service	Emoluments	Main duties	Name & Address of
	From	То			the Institution
	06-01- 2014	27-05- 2014	20,000	Research	Solid State & Structural Chemistry Unit, IISC, Bangalore
	28-05- 2014	30-11- 2015	55000	Research	Solid State & Structural Chemistry Unit, IISC, Bangalore
Assistant Professor	01-12- 2015	21-04- 2017	72547	Teaching and Research	Aligarh Muslim University

Research Interests

Crystal engineering and Solid State reactions, Homogeneous and Heterogeneous catalyzed reactions, Synthesis of functional organic materials, Identification and characterization of intermediate products formed during photoxidation processes.

Instruments Handled:

Single crystal X-ray Diffractometer, Powder X-ray Diffractometer, GC-MS, Total Organic Carbon (TOC) Analyzer, UV/Vis Spectrophotometer, FTIR, HPLC.

Publications

Published Papers: 32

Abstracts in Conferences: 19

PUBLISHED PAPERS IN JOURNALS:

S. No	Title, Name of authors, Journal, Vol., Pages Nos.	Year of publication	Impact Factor
1	Strategy and Methodology in the Synthesis of Multicomponent Molecular Solids: The Quest for Higher Cocrystals NA Mir, R Dubey, GR Desiraju Accounts of chemical research 52 (8), 2210-2220	2019	21.661
2	 Triphenylphosphine/Isocyanide Mediated Synthesis of Benzo [4, 5] imidazo [1, 2-a] pyrimidine, Enamine Ketones and Secondary Ketimines TA Shah, W Raza, M Muneer, NA Mir, M Ahmad ChemistrySelect 3 (3), 946-950 	2018	1.716
3	Crystal engineering and the design of higher cocrystals NA Mir, R Dubey, GR Desiraju ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES 73, C405-C405	2017	1.878
4	A highly efficient visible-light-driven novel pn junction Fe2O3/BiOI photocatalyst: Surface decoration of BiOI nanosheets with Fe2O3 nanoparticles O Mehraj, BM Pirzada, NA Mir, MZ Khan, S Sabir Applied Surface Science 387, 642-651	2016	5.155
5	Synthesis of CdS-rGO Composite by Photodeposition for Methylene Blue Decolorization A Khan, M Asim, U Alam, Y Khan, N A Mir, M Muneer Current Nanoscience 12 (5), 547-553	2016	1.586
6	Quaternary cocrystals: combinatorial synthetic strategies based on long-range synthon Aufbau modules (LSAM) R Dubey, NA Mir, GR Desiraju IUCrJ 3 (2), 102-107	2016	6.544
7	Four-and five-component molecular solids: crystal engineering strategies based on structural inequivalence NA Mir, R Dubey, GR Desiraju IUCrJ 3 (2), 96-101	2016	6.544
8	One step synthesis of highly functionalized thiazolo [3, 2- b][1, 2, 4] triazole, triazolo [1, 5-a] pyrimidine and triazolo [3, 4-b][1, 3, 4] thiadiazine TA Shah, Z Ahmad, NA Mir, M Muneer, NP Rath, M Ahmad RSC Advances 5 (130), 107931-107937	2015	3.049

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9	Fabrication of novel Ag3PO4/BiOBr heterojunction with high stability and enhanced visible-light-driven photocatalytic activity	2015	5.155
	O Mehraj, NA Mir, BM Pirzada, S Sabir		
	Applied Surface Science 332, 419-429		
10	Synthesis, characterization and optimization of	2014	3.507
	photocatalytic activity of TiO2/ZrO2 nanocomposite		
	heterostructures		
	BM Pirzada, NA Mir, N Qutub, O Mehraj, S Sabir, M Muneer		
	Materials Science and Engineering: B 193, 137-145		
11	Combinatorial crystal synthesis of ternary solids based on 2-	2015	3.382
	methylresorcinol		
	NA Mir, R Dubey, S Tothadi, GR Desiraju		
	CrystEngComm 17 (41), 7866-7869		
12	Efficient visible light photocatalytic activity and enhanced	2015	3.069
	stability of BiOBr/Cd (OH) 2 heterostructures		
	BM Pirzada, O Mehraj, NA Mir, MZ Khan, S Sabir		
	New Journal of Chemistry 39 (9), 7153-7163		0.0.10
13	Ag 2 S sensitized mesoporous Bi 2 WO 6 architectures with	2015	3.049
	enhanced visible light photocatalytic activity and recycling		
	properties O Mehraj, BM Pirzada, NA Mir, S Sultana, S Sabir		
	RSC Advances 5 (53), 42910-42921		
14	In-situ anion exchange synthesis of AgBr/Ag2CO3 hybrids	2014	2.938
14	with enhanced visible light photocatalytic activity and	2014	2.750
	improved stability		
	O Mehraj, NA Mir, BM Pirzada, S Sabir, M Muneer		
	Journal of Molecular Catalysis A: Chemical 395, 16-24		
15	Photocatalytic degradation of herbicide Bentazone in	2014	1.666
	aqueous suspension of TiO2: mineralization, identification		
	of intermediates and reaction pathways NA Mir, MM Haque, A Khan, M Muneer, S Vijayalakshmi		
	Environmental technology 35 (4), 407-415		
16	Photocatalytic Study of Two Azo Dye Derivatives, Ponceau	2014	0.0
	Bs and Reactive Blue 160 in Aqueous Suspension of	2011	0.0
	TiO2: Adsorption Isotherm and Decolorization Kinetics		
	1102. Ausorption isotherm and Decolorization Milettes		
	NA Mir, A Khan, AA Dar, M Muneer		
	NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science,		
	NA Mir, A Khan, AA Dar, M Muneer		
17	NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science, Engineering and (E) and (Z)-1,4-diphenyl-2-(2-phenyl-1H-benzo[d]imidazol-	2014	0.0
17	NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science, Engineering and (E) and (Z)-1,4-diphenyl-2-(2-phenyl-1H-benzo[d]imidazol- 1-yl)but-2-ene-1,4-dione	2014	0.0
17	 NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science, Engineering and (E) and (Z)-1,4-diphenyl-2-(2-phenyl-1H-benzo[d]imidazol- 1-yl)but-2-ene-1,4-dione S Ahmed, NA Mir, TA Shah, W Raza, M Muneer, NP Rath 	2014	0.0
	NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science, Engineering and (E) and (Z)-1,4-diphenyl-2-(2-phenyl-1H-benzo[d]imidazol- 1-yl)but-2-ene-1,4-dione S Ahmed, NA Mir, TA Shah, W Raza, M Muneer, NP Rath Journal of Crystallography		
17	 NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science, Engineering and (E) and (Z)-1,4-diphenyl-2-(2-phenyl-1H-benzo[d]imidazol- 1-yl)but-2-ene-1,4-dione S Ahmed, NA Mir, TA Shah, W Raza, M Muneer, NP Rath Journal of Crystallography One pot synthesis of imidazo [2, 1-b] thiazoles and benzo 	2014	0.0
	NA Mir, A Khan, AA Dar, M Muneer International Journal of Innovative Research in Science, Engineering and (E) and (Z)-1,4-diphenyl-2-(2-phenyl-1H-benzo[d]imidazol- 1-yl)but-2-ene-1,4-dione S Ahmed, NA Mir, TA Shah, W Raza, M Muneer, NP Rath Journal of Crystallography		

19	Photocatalytic Decolorization of an azo dye derivative, Acic Yellow 29 in aqueous suspension of Titania A Khan, NA Mir, M Muneer, ZS Seddigi Current catalysis 3 (1), 115-122	2014	0.0
20	Photocatalysed mineralization of three selected antibacterial drugs, kanamycin acid sulfate, ampicillin and pyrazinamide in aqueous suspensions of TiO2/H2O2 A Khan, NA Mir, MM Haque, M Muneer	2013	0.0
21	Photocatalytic Study of a Xanthene Dye Derivative, Phloxine B in Aqueous Suspension of TiO2: Adsorption Isotherm and Decolourization Kinetics NA Mir, A Khan, K Umar, M Muneer	2013	0.0
22	Photocatalytic degradation of a widely used insecticide Thiamethoxam in aqueous suspension of TiO2: Adsorption, kinetics, product analysis and toxicity assessment NA Mir, A Khan, M Muneer, S Vijayalakhsmi	2013	5.589
23	Titanium dioxide-mediated photocatalysed mineralization of two selected organic pollutants in aqueous suspensions K Umar, MM Haque, NA Mir, M Muneer, IH Farooqi Journal of Advanced Oxidation Technologies 16 (2), 252-	2013	0.901
24	Synthesis, characterization and photocatalytic activity of visible light induced Ni-doped TiO2 MM Haque, A Khan, K Umar, NA Mir, M Muneer, T Harada, M Matsumura	2013	0.0
25	Solar photocatalytic decolorization of two azo dye derivatives, acid red 17 and reactive red 241 in aqueous suspension A Khan, N Mir, MM Haque, M Muneer, C Boxall	2013	1.318
26	Heterogeneous photocatalyzed degradation of a pesticide derivative, 3-chloro-4-methoxyaniline, in aqueous suspensions of titania A Khan, NA Mir, MM Haque, M Muneer, S Vijayalakshmi,	2012	2.064
27	Photocatalysed decolourization of two textile dye derivatives, Martius Yellow and Acid Blue 129, in UV- irradiated aqueous suspensions of Titania K Umar, AA Dar, MM Haque, NA Mir, M Muneer	2012	1.383
28	Semiconductor mediated photocatalysed reaction of two selected organic compounds in aqueous suspensions of Titanium dioxide NA Mir, MM Haque, A Khan, K Umar, M Muneer, S	2012	0.901
29	Titanium dioxide-mediated photcatalysed degradation of two herbicide derivatives chloridazon and metribuzin in aqueous suspensions A Khan, NA Mir, M Faisal, M Muneer	2012	0.0
30	Photoassisted degradation of a herbicide derivative, dinoseb in aqueous suspension of titania NA Mir, MM Haque, A Khan, M Muneer, C Boxall The Scientific World Journal 2012	2012	0.0

31	Photocatalysed degradation of a herbicide derivative, Dinoterb, in aqueous suspension AA Dar, K Umar, NA Mir, MM Haque, M Muneer, C Boxall	2011	2.064
32	Heterogeneous photocatalysed degradation of an insecticide derivative acetamiprid in aqueous suspensions of semiconductor A Khan, MM Haque, NA Mir, M Muneer, C Boxall	2010	6.035

INTERNATIONAL CONFERENCES

Proceedings:

- Crystal engineering and the design of higher cocrystals
 Niyaz A Mir, Ritesh Dubey and Gautam R. Desiraju
 24th Congress and general Assembly of the international Union of crystallography, 21-28 August, Hyderabad, India.
- Sunlight-induced semiconductor mediated photodecolorisation of an azo dye derivative, acid red 17 in aqueous suspension Abuzar Khan, Niyaz A. Mir, M.M. Haque and M. Muneer International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 5-6 (2011)
- Study on photocatalytic degradation of Chloramben in aqueous suspension of titania
 Niyaz A. Mir, M.M. Haque, Abuzar Khan and M. Muneer
 International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 5-6 (2011).
- The hydrogen peroxide-assisted photocatalytic degradation of a pesticide derivative bentazon in aqueous suspension of semiconductor M.M. Haque, Niyaz A. Mir, M. Zaid, Khalid Umar and M. Muneer International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 5-6 (2011).
- Photocatalytic transformation of an insecticide derivative Thiamethoxam in aqueous suspension of Titania monitored by GC-MS
 Niyaz A. Mir, A. Khan, M. Muneer International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 2-3 (2013).
- Synthesis charecterisation and X-ray structure derived from the reaction of 2-phenylbenzimidazole with dibenzoyl acetylene Sarfaraz ahmad, Niyaz A. Mir, Waseem Raza, Mohd Muneer, Nigam P. Rath international Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 2-3

(2013).

5. Study of synthesis, Characterization and photocatalytic properties of Lanthanum doped ZnO/TiO₂ Nanoparticles

Bilal Masood Pirzada, Niyaz A. Mir, Owais Mehraj, Suhail Sabir, M. Muneer International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 2-3 (2013).

- 4. Studies on polyethylene glycol capped lanthanum ion doped zinc sulphide nanoparticles
 Owais Mehraj, Bilal Masood Pirzada, Niyaz A. Mir, Suhail Sabir, Mohd Muneer
 International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 2-3 (2013).
- 3. Synthesis, Charecterization and photocatalytic activity of visible light induced Ni- doped ${\rm TiO}_2$

Abuzar Khan, M.M. Haque, **Niyaz A. Mir**, K. Umar, M. Muneer, T. Harada and M. Matsumura

International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 2-3 (2013).

- Synthesis of multichromophoric organic compounds by addition of heterocyclic nucleophiles to dibenzoylacetylene Zubair Ahmad, Tariq A. Shah, Niyaz A. Mir, Waseem Raza, M. Muneer International Conference on Chemistry: Frontiers and Challenges, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 2-3 (2013).
- 1. Synthesis, Characterization, Photocatalytic and Electrical Properties of

ZrO2 doped TiO2 Nanocomposites

Bilal Masood Pirzada, Niyaz Ahmad Mir, Nida Qutub, Suhail Sabir, Mohd. Muneer

5th Bangalore Nano, Bangalore, India, POS-28 Dec 2012.

NATIONAL CONFERENCES

Proceedings:

8. Heterogeneous photocatalysed degradation of a pesticide derivative dinoseb in aqueous suspension of semiconductor

N. A. Mir, M. M. Haque, M. Muneer, C. Boxal.

National conference on chemistry of materials, Department of Chemistry, University of Mumbai, Mumbai, February, 20-21 (2009).

7. Photocatalysed degradation of a pesticide derivative thiamethoxam in aqueous suspension of semiconductor

Niyaz A. Mir, M. M. Haque, M. Muneer.

National Symposium on Recent Trends in Chemical Sciences, Department of hemistry, Aligarh Muslim University, Aligarh, February, 24-25 (2010).

- Synthesis, Characterization and photocatalytic activity of Mn-doped TiO2 M. M. Haque, K. Umar, A. Khan, N.A. Mir and M. Muneer National Conference on New Vistas in Chemistry, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 1-3 (2012).
- 5. Photocatalytic decolourization of an azo dye Acid Yellow 29 in aqueous suspensions of titanium dioxide

Abuzar Khan, N.A.Mir, M. M. Haque, M. Muneer

National Conference on New Vistas in Chemistry, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 1-3 (2012).

4. Photocatalytic degradation of an azo dye Ponceau BS in water: Investigation of the effect of operational parameters

Niyaz A. Mir, A. Khan and M. Muneer

National Conference on New Vistas in Chemistry, Department of Chemistry, Aligarh Muslim University, Aligarh, March, 1-3 (2012).

3. Photocatalytic decolourization of a dye, Phloxine B in aqueous suspension of $\rm TiO_2$

Niyaz A. Mir, A. Khan and M. Muneer

National conference on nanoscience and nanotechnology, Department of applied physics, Z. H. college of engineering & Technology, Aligarh Muslim University, Aligarh, March, 10-12 (2012).

2. Synthesis of Visible Light Active Cds-RG Composite by Photoreduction of

Page **10** of **11**

Graphene Oxide.

A.Khan, N. A. Mir, S. A. Ansari, S. Ahmed, M. Muneer, W. Khan

National conference on nanoscience and nanotechnology, Department of applied physics, Z. H. college of engineering & Technology, Aligarh Muslim University, Aligarh, March, 10-12 (2012).

 Synthesis and characterisation of mesoporous doped titanium dioxide & its photocatalytic activity on the degradation of methylene blue.
 M. M. Haque, A. Khan, K. Umar, Niyaz A. Mir, M. Muneer National conference on nanoscience and nanotechnology, Department of applied physics, Z. H. college of engineering & Technology, Aligarh Muslim University, Aligarh, March, 10-12 (2012).