

CURRICULUM VITAE

Dr. Muzzaffar Ahmad Bhat

Address: Sonasamil P/O: Pulwama, Dist/Teh: Pulwama, Jammu and Kashmir, India

Contact No: +919469142402, 9697231450 (M).

E-Mail: muzzaffarbhat9@gmail.com, muzzafarbhat9@yahoo.com

Research Interests

- Synthesis, characterization, reactivity and biologic activity of sulphur and selenium i.e chalcogen bearing Ligands.
- Pesticides and insecticide synthesis especially dithiocarbamates, dithiophosphates, dithiocarbazates and carbazates
- Supramolecular chemistry, computational chemistry
- o Organic synthesis.

Research Experience

 Synthesis of dithiocarbamates, dithiophosphates, dithiocarbazates and carbazates and their complexation with metals especially Sn, Cd, Zn, Hg and Cu

- Synthesis, characterization and reactivity of sulphur, selenium and tellerium bearing ligands
- Purification and drying of all the commonly used solvents by easy and available methods, expertise in handling air sensitive materials via Schlenk line techniques and also have experience in characterization of NMR, IR, Mass spectra and single crystal X-ray data analysis.
- Have synthesized six noval compounds of phosphorous, sulfur and selenium and 38 noval complexes and determined the molecular structure of 8 supramolecular compounds
- Determined the molecular structure of polymeric dithiocarbamates.
- Have synthesized noval series of carbazates containing tertiary butyl carbazates and have determined their molecular structures.
- Expert in carrying out theoretical studies or computational studies using Gaussian 9 package
- Expertise in carrying out docking studies by employing AutoDock 4.2

Achievements

- 1st rank holder in the entrance test conducted by Jiwaji University for Ph.D
- 1st rank holder in the secondary school examination (81.00%) in MMET Public School Pulwama.
- Received the travel bursary award of 800 Aus \$ in the27th International Conference on Organometallic Chemistry 2016 17-22 july held in Melbourne Australlia.
- Received the postdoc offer from Rui Wang, MD, PhD, FAHA, Vice-President Research Laurentian University, 935 Ramsey Lake Road, Sudbury, Ontario, Canada P3E 2C6.

- U.V Visible Spectrophotometer. Both single beam and double beam.
- F.T I.R .KBr pellets. HPLC and NMR.
- Potentiometer and Polariometer.

Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Title of Thesis: "Preparation, characterization and reactivity of Sulphur and Selenium bearing ligands"

Supervisor

Prof. Sanjay K. Srivastava.

Professor, School of Studies in Chemistry Jiwaji University Gwalior-474011

Date of Award: May 2016.

1. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	То	Pay Scale
1.	Guest Faculty	CSMM, Chemicals, Sales and Marketing Management and Department of Chemistry	30-06-2011	29-07-2013	15000/
2.	Contractual Assistant Professor	Islamic University of Science and Technology, Awantipora Pulwama	11-12-2016	Till date	25000/

S.N 0.	Author(s)	Title	Name of Journal	Volu me	Page	Yea r
1.	Muzzaffar Bhat, Muzzaffar Ahmad Mir Agim, Ray J. Butcher , Sanjay K. Srivastava	First structurally characterized anion exchanged product of noval cyclohexane containing substituted thio piperazinium chloride [C ₆ H ₁₁ S(CH ₂) ₃ C ₄ H ₉ N ₂ C ₆ H ₅ Cl (L ¹ Cl)]: synthesis, crystal structure and supramolecularity of (L ¹ NO ₃).	Inorganic Chemistry communicati on (IF = 1.98)	77	8-11	2017
2.	Muzzaffar Ahmad Mir, Muzzaffar Ahmad Bhat, Rawoof Ahmad Naikoo,Rayees Ahmad Bhat, Mubashir khanb, Mahabul Shaik, Pawan Kumar, P.K. Sharma, Radha Tomar.	Utilization of zeolite/polymer composites for gas sensing: A review	Sensors and Actuators B: Chemical, (IF = 4.79)	http:// dx.doi. org/10 .1016/j .snb.2 016.09 .152		2016
3.	Muzzaffar Ahmad Mir , Muzzaffar Ahmad Bhat , Rawoof Ahmad Naikoo,Pukhram bam Dipak , Rayees Ahmad Bhat , Radha Tomar , P.K. Sharma	Fabrication of polyaniline/zeolite composites and their response towards nitrogen dioxide	Microporous and Mesoporous Materials (IF = 3.56)	233	53-61	2016
4.	Muzzaffar A. Bhat, Shalini Jain, Sanjay K. Srivastava, Ray J. Butcher, Jan	Poly[µ2-aqua-aqua[µ3-N-butyl-N-(2-hydroxyethyl)dithiocarbamato-k³O,O':S]sodium]	Crystallogra phic Acta (IF = 0.74)	E72,	196– 198.	2016.

	Wikair.					
5.	Sharma, Ambik	Crystal structure of 1-(3- Chlorophenyl)-4-(3- chloropropyl)- piperazinium chloride redetermined at 100 K.	Crystallogra phic Acta (IF = 0.74)	http://dx.doi. org/10 .1107/ S2414 31461 60016 81		2016
6.	Muzzaffar Ahmad Mir, Rawoof Ahmad Naikoo, Samiullah Bhat, Radha Tomar, Muzzaffar Ahmad Bhat, Rayees Ahmad Bhat, Pukhrambam Dipak and D. C. Tiwari.	Effect of Different Variables on the Electrical Conductivity Sensitivity of Synthesized Zeolite/Polymer Composites for Various Gases: A Review	American Chemical Science Journal, IF = 0.45)	13(2),	1-18(2016
7	Muzzaffar A. Bhat, Shabir H. Lone, Muzzaffar A. Mir, Sheikh A. Majid, Sanjay K. Srivastava	Synthesis, spectral characterization, DFT studies and biological activity of novel Ligand 1-(2-cyclohexyl thioethyl) piperidine and its complexes with group 12 metal chlorides	Applied Organometal lic Chemistry IF=3.6	DOI: 10.100 2/aoc. 4329		2018
8	Muzzaffar A. Bhat, Shabir H. Lone , Sanjay K. Srivastava	Synthesis, spectroscopic characterization, DFT studies and biological activity of bis (1-(ethyl) piperidine) diselenide (L) and its complexes with selected group 12 metal halides	Inorganica Chemica Acta IF= 2.09	478	222– 231	(2018
9.	Shabir H. Lone, Muzzaffar A. Bhat, Rayees A. Lone, Salman Jameel, Javeed A. Lone	Hemisynthesis, computational and molecular docking studies of novel nitrogen containing steroidal aromatase	New Journal Of Chemistry IF= 3.2	DOI: 10.103 9/c8nj 00063 h		

	and Vhanahaad	inhihitana tagtala atam		1		1
	and Khursheed A. Bhat	inhibitors: testolactam				
	A. Dilat	and testololactam				
	Cl. l' II I					
10	Shabir H. Lone,	Synthesis of an unusual	RSC Adv.	8	2018	8259
10	Salman Jameel,	quinazoline alkaloid:	KSC Auv.	0	2010	0439
	Muzzaffar A.	theoretical and	IF= 3.1			
	Bhat, Rayees A.	experimental	11 – 3.1			
	Lone,	investigations of its				
	Ray J. Butcher	structural, electronic,				
	and Khursheed	molecular and biological				
	A. Bhat.	properties†				
	Muzzaffar A.	Synthesis of t-butyl 2-(4-			(2010	-1-
11	Bhat , Shabir H.	hydroxy-3-	Journal of	1164	(2018	516-
	Lone, Muzzaffar	methoxybenzylidene)hydr	Molecular)	524
	A. Mir, Sheikh	azine	Structure			
	A. Majid,	carboxylate: Experimental	TF 44			
	Haroon Mohi-	and theoretical	IF= 2.1			
	ud-din Bhat,	investigations of its				
	Raymond J.	properties				
	Butcher, Sanjay					
	K. Srivastava					
	Muzzaffar A.	Theoretical and				
12.	Bhat, Shabir H.	experimental	Journal of	1168	(2018	242-
	Lone, Ray J.	investigations into	Molecular)	249
	Butcher, Sanjay	structural, electronic,	Structure			
	K. Srivastava	molecular and biological				
		properties of 4-(3-	IF= 2.1			
		chlorophenyl)-1-(3-				
		chloropropyl) piperazin-1-				
		ium chloride				
	Muzzaffar A.	Synthesis, spectral				
13.	Bhat, Shabir H.	characterization,	Journal of	1171	(2018	233-
	Lone, Sabeena	reactivity and DFT studies	Molecular		()	242
	Ali, Sanjay K.	of	Structure		'	<u>-</u>
	Srivastava	novel ligand phenylseleno				
		benzylacetate (L) and its	IF= 2.1			
		complexes with				
		group 12 metal chlorides				
	Muzzaffar A.	1-(3-Chlorophenyl)-4-(3-				
14	Bhat, Shabir H.	phenylseleno propyl)	Journal of	https:/		
	Lone & Sanjay	piperazine (L); Synthesis,	Coordination	/doi.or		
	K. Srivastava	spectroscopic	Chemistry	g/10.1		
		characterization, DFT		080/00		
		studies, antimicrobial		95897		
		evaluation and its		2.2018		
		reactivity towards group	IF= 2.1	.14891		
		12		26		
		metal chlorides				
	1	metal chiorides			1	

15	Muzzaffar Ahmad Mir, Muzzaffar Ahmad Bhat, Sheikh Abdul Majid, Shabir H. Lone, Manzoor Ahmad Malla, Kautily Rao Tiwari, Ashiq Hussain Pandit, Radha Tomar, Rayees Ahmad Bhat.	Studies on the synthesis and characterization of polyaniline-zeolite nanostructures and their role in carbon monoxide sensing	Journal of Environment al Chemical Engineering IF=1.5	6	(2018	1137 - 1146
16	Rayees A. Bhat, D. Kumar, Anurag Srivastava,Bilal A. Mir, Manzoor A. Malla, Muzzaffar A. Bhat, and Muzzaffar A. Mir	Experimental, DFT Studies and Biological Evaluation of S-methyl-b-N-(3-(2- nitrophenyl)allylidene)dit hiocarbazate	Chemistry Select IF=1.5	DOI: 10.100 2/slct. 20180 1698		
17	Muzzaffar A. Bhat, Muzzaffar A. Mir, Shabir H. Lone, Sheikh A. Majid, Rayees A. Bhat, Sanjay K Srivastava	H/BETA Zeolite mediated synthesis of t-butyl carbazate based Schiff bases. A versatile catalyst for the synthesis of highly functionalized imines	Journal of Porous materials IF= 1.8	Accep ted		
18	Muzzaffar Ahmad Bhat, Joseph Agim, Raymond. J. Butcher and Sanjay K. Srivastava	Synthesis, spectral characterization, crystallographic analysis, DFT studies, bio evaluation and anion exchange reactions of novel ligand 1-(3-Chlorophenyl)-4-(3-phenylseleno propyl) piperazinium chloride	Journal of Molecular Structure IF= 2.1	Accep ted		

Books Published

Books Published

1. Advances in Organosulphur and Organoselenium Chemistry.

Muzzaffar Ahmad Bhat, Muzzaffar Ahmad Mir, Sheikh Abdul majid.

ISSN 978-613-5-83596-0 (Lambert Publishers)

2. Advances in Organotellerium and Hydrid Organotellerium Chemistry

Muzzaffar Ahmad Bhat

ISSN 978-3-659-56448-2 (Lambert Publishers)

3. Zeolite: Synthesis and Applications

S. H Majid, Muzzaffar Ahmad Bhat, Muzzaffar Ahmad Mir.

ISSN 978-613-7-15431-1 (Lambert Publishers)

4. Exploitation of Zeolites/polymers for various applications

ISBN No. 9786136635149

Muzzaffar Ahmad Mir, Muzzaffar Ahmad Bhat, S. H Majid

5. Zeolite-Polymer based Materials for Gas Sensing

ISBN No. 9783668662407 (GRIN Verlag)

Muzzaffar Ahmad Mir, Muzzaffar Ahmad Bhat, S. H Majid.

Book Chapters

1. Zeolite-Polymer Composites: Gas Sensing.

Encyclopedia of polymer Application, Taylor and Francis Group 711 third

Avenue, 8th Floor New York.

Muzzaffar Ahmad Mir, Muzzaffar Ahmad Bhat, S. H Majid.

Conferences attended

- Attended National Conference on "Advances In Electroanalytical Chemistry" held at School of Studies in Environmental Chemistry, Jiwaji University, Gwalior, M.P. (Dec. 23-24, 2011).
- 2. Attended 3rd International Conference on "Climate Change and Sustainable Management of Natural Resources" held at Institute of Allied Science and Computer Applications, School of Life Science, School of Business, ITM University, Gwalior, M.P. (Feb. 2-7, 2012).

- Attended National Conference on "Recent Advances in Chemical Science; Emphasis on Healthy Life" held at Department of Engineering Chemistry, ITM GOI & ITM University, Gwalior, M.P. (Sep. 21-22, 2012).
- 4. Attended National Conference as volunteer on "New Frontiers for Women in Science and Technology" organised by Jiwaji University, Gwalior, M,P. (March 20-21, 2013).
- 5. Attende National Conference as volunteer on "Women in Scinece Promoting Excellence and Innovation for Future Development" organized by Jiwaji University, Gwalior, M.P. (March 25-27, 2015).
- 6. Presented paper in National Conference on "Role of Nanomaterials for various Applications in Chemistry: An Ecofriendly Approach" organised by School of Studies in Chemistry, Jiwaji Univeristy, Gwalior, M.P. (April 6-8, 2015)
- Poster presentation in the 27th International Conference on Organometallic
 Chemistry 2016 17-22 july held in melbourne Australlia and reveived the travel bursay award of 800 Aus dollors.

Personal Profile

Name : Muzzaffar Ahmad Bhat Father's Name : Manzoor Ahmad Bhat

Mother's Name : Haseena Akhter Date of Birth : 3rd Feb.1988

Nationality: Indian

Languages known : English, Hindi & Urdu

Gender : Male
Marital status : Single
Religion : Muslim

References

Prof. Sanjay K. Srivastav Professor in SOS chemistry, Jiwaji University Gwalior, India.

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Email:, sksrivas7@yahoo.com

2. Prof Raymond John Butcher

Professor of Inorganic & Structural Chemistry Howard University Washington DC 20059 Office: (202) 806-9892 Cell: (703) 585-6631 Fax: (202) 806-5442

Email:, rbutcher99@yahoo.com

3. Dr. Khursheed Ahmad Bhat

Senior Scientist, Indian Institute of Integrative Medicine (IIIM) Branch Sanatnagar Srinagar Tele., +919419089979

E-mail:, kabhat@iiim.ac.in

Declaration

I hereby declare that all the information mentioned above is true to the best of my knowledge. I shall be responsible for any action, if any of the above statements are incorrect at any stage in future.

Date: 29-03-2018

Place: Pulwama (Muzzaffar Ahmad Bhat)