

## Curriculum Vitae



**Name:** Jan Mohammad Mir  
**Father's Name:** Gulam Nabi Mir  
**Marital Status:** Married  
**DOB:** 02-02-1987  
**Mobile Number-I:** 8492801701  
**Email:** mirjanmohammad@gmail.com  
**Current Position** Assistant Professor - Chemistry  
**Date of Joining** 16<sup>th</sup> June 2017  
**Department / Centre :** UTD Chemistry-IUST

**Dr. Jan Mohammad Mir (Ph.D., D.Sc.) FRSC, FINSC**  
RD University Jabalpur  
Verified email at islamicuniversity.edu.in - [Homepage](#)  
Coordination Metallopharmaceutical and ...

FOLLOWING

	All	Since 2016
Citations	554	544
h-index	15	15
i10-index	22	22

Year	Citations
2015	~5
2016	~10
2017	~15
2018	~120
2019	~100
2020	~100
2021	~150

TITLE	CITED BY	YEAR
<input type="checkbox"/> <a href="#">Formulation, Molecular Charge Topography, and Nosocomial Anti-Infectious Potential of Ruthenium Carbonyl Complex of N-o-Hydroxyacetophenone-Ethylenediamine-N-o-Vanillin</a> JM Mir, N Jain, RC Maurya Journal of Transition Metal Complexes 4		2021
<input type="checkbox"/> <a href="#">A nonclinical spectroscopic approach for diagnosing COVID-19: a concise perspective</a> JM Mir, MW Khan, AH Shalla, RC Maurya Journal of Applied Spectroscopy 88 (4), 587-593		2021
<input type="checkbox"/> <a href="#">Nitric Oxide, Carbon Monoxide, and Hydrogen Sulfide as Biologically Important Signaling Molecules With the Significance of Their Respective Donors in Ophthalmic Diseases</a> RC Maurya, JM Mir Chemistry of Biologically Potent Natural Products and Synthetic Compounds ...		2021
<input type="checkbox"/> <a href="#">NO, CO and H2S based pharmaceuticals in the mission of vision (eye health): a comprehensive review</a>	1	2021

**Co-authors** [EDIT](#)

**Dr. Bashir Ahmad Malik**  
ISLAMIC UNIVERSITY OF SCIE... >

shaikh abdul mailid

### Current Address:

Address 1: Department of PG Studies and Research in Chemistry and Pharmacy, RD University, Jabalpur-482001, India

Address 2: Department of Chemistry,

Islamic University of Science and Technology Awantipora, J &K-India-192301 Mob. No. +918492801701 and +919469327247

E-mail: mirjanmohammad@gmail.com

### Research Interests:

1. Coordination and Bio-inorganic Chemistry
2. Theoretical Science
3. Medicinal Chemistry (Antibiotic, antihypertensive, antidiabetic and anti-Alzheimer medicinal synthesis and designing)

4. Colloidal Chemistry
5. Thermal chemistry
6. Inorganic zeolites
7. Design of gasotransmitter models

#### Specialized field view:

- Synthesis, Characterization and computational chemistry of metal Complexes of metals like Molybdenum, Ruthenium, Iron and Manganese with Schiff bases of mesmerizing medicinal importance
- Antidiabetic, anticancer and antibiotic evaluation
- Mixed ligand metal complexes
- Synthesis and Characterization of Schiff Base
- Design and synthesis of some organic ligands
- Growing Crystals and Solution of Single Crystal X-Ray Data.
- 3D Molecular Modeling
- Computational chemistry involving DFT calculation, Docking and Various other chemistry software programming

#### Skills:

- Skilled with the operation of chemistry softwares including chemdraw, Gaussian, Medchem designer, Chemkraft, Schrodinger Maestro, Gamess and Discovery Studio Docking softwares
- Design of new metal Nitrosyl Complexes and Synthesis of Suitable metal precursors
- Interpretation of UV-Visible, FT-IR, NMR, FAB MASS, ESR, TGA-DTA data of the complexes
- Operating the instruments like UV-Visible Spectrophotometer, FT-IR, Cyclic Voltmeter, and Atomic Absorption Spectrophotometer
- Preparing research paper for submission
- Solving single crystal X-Ray data

#### Research Journals Wherein Dr. Mir Serves in Editorial Board:

Biochemistry and Pharmacology (LongDom),  
 Journal of Transition Metal Complexes (Bendola Publishing),  
 Analytical Chemistry: An Indian Journal (Trade Sci Inc),  
 Global Journals, Pharmaceutica Acta  
 Acta pharmaceutical sciences  
 Journal of Biomedicine  
 Insight Medical Publishing  
 IGRPS  
 International Journal of Molecular Sciences

#### List of Journals where I have been a potential reviewer

1. Journal of materials and environmental science
2. All RSC Journals
3. Journal of Men's Health
4. Coordination Chemistry Reviews
5. Lung, Pulmonary and respiratory research journal
6. Journal of coordination chemistry
7. Medicinal chemistry research
8. IJSER

#### Other Experiences

1. Teaching experience of 3 years at UTD RD University Jabalpur
2. Teaching Experience of 2 Years at Islamic University Awantipora
3. Post-Ph.D research experience as D.Sc. fellow of 3.5 years

### III. Permanent Address

<b>Address:</b>	Rakh Litter Pulwama		
<b>District:</b>	Pulwama	<b>Pin Code:</b>	192305

### IV. Communication Address

<b>Address:</b>	Rakh Litter Pulwama		
<b>District:</b>	Pulwama	<b>Pin Code:</b>	192305

### VI. Academic Details

S.No.	Degree / Examination	Stream / Programme	Admission Year	Passing Year	Board / University
1	Secondary School Examination (10th)	General	2002	2000	JKBOSE
2	Senior Secondary School Examination (12th)	Science	2004	2004	JKBOSE
3	Graduation	B.Sc.	2005	2007	UK
4	Post Graduation	M.Sc.	2008	2010	BU
5	Ph.D. (Complete)	Inorganic and computational chemistry	2011	2015	RDU
6	Any Other Relevant	DSc	2017	2020	RDU

### VIII. Experience

#### a. Teaching

S.No.	Designation	Employer Name /Institute & Address	From	To
1	ASSISTANT PROFESSOR	RD UNIVERSITY JABALPUR	2015	2017
2	LECTURER	GDC BIJBEHARA	2017	2017
3	ASSISTANT PROFESSOR	ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY	16-06-2017	Cont.

### IX. Publications

S.No.	Authors	Title of Paper	Journal Name & Place of Publication	Vol No./ Page No. / Year	ISSN No.	Impact Factor	Dated	Rank
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#### VERY RECENT PUBLICATIONS

[Biochemical tale of CO in the vale of eye: a mini review](#)

JM Mir, FA Itoo, RC Maurya

Ophthalmology and Vision Care 1 (2), 2021

[A Recent Study on the Synthesis and DFT Collaborated Experimental Characterization of Some Pyrazolone Functionalized Dioxovanadium\(V\) Schiff Base Complexes](#)

RCMJMMPK Vishwakarma

Current Perspectives on Chemical Sciences 10, 42-64, 2021

[NO, CO and H<sub>2</sub>S based pharmaceuticals in the mission of vision \(eye health\): a comprehensive review](#)

JM Mir, RC Maurya, MW Khan

Reviews in Inorganic Chemistry, 2021

[Nitric Oxide, Carbon Monoxide, and Hydrogen Sulfide as Biologically Important Signaling Molecules With the Significance of Their Respective Donors in Ophthalmic Diseases](#)

RC Maurya, JM Mir

Chemistry of Biologically Potent Natural Products and Synthetic Compounds ..., 2021

[A nonclinical spectroscopic approach for diagnosing COVID-19: a concise perspective](#)

JM Mir, MW Khan, AH Shalla, RC Maurya

Journal of Applied Spectroscopy 88 (4), 587-593, 2021

[Formulation, Molecular Charge Topography, and Nosocomial Anti-Infectious Potential of Ruthenium Carbonyl Complex of N-o-Hydroxyacetophenone-Ethylenediamine-N-o-Vanillin](#)

JM Mir, N Jain, RC Maurya

Journal of Transition Metal Complexes 4, 2021

[Enhancement of Schiff base biological efficacy by metal coordination and introduction of metallic compounds as anticovid candidates: a simple overview](#)

JM Mir, SA Majid, AH Shalla

Reviews in Inorganic Chemistry, 000010151520200020

[Nitric oxide as a therapeutic option for COVID-19 treatment: a concise perspective](#)

JM Mir, RC Maurya

New Journal of Chemistry 45 (4), 1774-1784

[The primary gasotransmitters and their respective donors in the mission of vision \(eye health\): a comprehensive overview](#)

J Mir, R Maurya

Authorea Preprints

[Nitric oxide boosters as defensive agents against COVID-19 infection: an opinion](#)

JM Mir, RC Maurya

Journal of Biomolecular Structure and Dynamics, 1-7

[A novel oxovanadium \(IV\) complex containing pyranone appended glucosamine Schiff base: synthesis, characterization and DFT evaluation](#)

JM Mir, BA Malik, MW Khan, RC Maurya

Journal of Coordination Chemistry 73 (20-22), 2906-2918

[Solid state electron density aspects of mordenite with experimentally evaluated nitrate and phosphate sorption](#)

JM Mir, MA Mir, SA Majid, BA Malik

Materials Science and Engineering: B 263, 114865

[Molecular electron density and nitrate-phosphate sorption efficiency of zeolite-A: Physico-chemical and DFT analyses](#)

JM Mir, MA Mir, SA Majid

Indian Journal of Chemistry-A 59, 939-947

[Density functional aspects and thermodynamic evaluation of sodium dodecyl sulphate in aqueous tartrazine](#)

FA Itoo, JM Mir, NA Malik, A Ali

Journal of King Saud University-Science 32 (4), 2505-2512

## other Publications

1	Jan Mohammad Mir, N. Jain, P.S. Jaget and R.C. Maurya	Density Functionalized [RuII(NO)(Salen)(Cl)] Complex: Computational Photodynamics and In Vitro Anticancer Facets	Photodiagnosis and Photodynamic Therapy	19/363/2017	ISSN: 1572-1000	2.895	1-9-2017	Best Five
2	J.M. Mir and F.A. Itoo	Experimental-DFT interface of hydrogen bonding description of 1: 10 methanol-water solution	Journal of molecular liquids, Amsterdam, Netherlands	247//1/2017	ISSN: 0167-7322	4.513	22-09-2017	Best Five
3	J.M. Mir and R.C. Maurya	Nitric oxide functionalized molybdenum (0) pyrazolone Schiff base complexes: thermal and biochemical study	RSC Advances, Royal Society of Chemistry	8/35102/2018	ISSN 2046-2069	3.096	1-11-2018	Best Five
4	JanMohammad MirN.JainP.S .JagetW.KhanP.K.VishwakarmaD.K.RajakB.A.Malik Ram C.Maurya	Urinary tract anti-infectious potential of DFT-experimental composite analyzed ruthenium nitrosyl complex of N-dehydroacetic acid-thiosemicarbazide	Journal of King Saud University of Science, Saudi Arabia	31/89/2019	ISSN: 1018-3647	3.351	27-6-2017	Best Five
5	RC maurya, J Chourasia, JM Mir, et al	Oxovanadium(IV) complexes of bioinorganic and medicinal relevance: Synthesis, characterization and 3D molecular modeling of some oxovanadium(IV) complexes involving O, Ndonor environment of salicylaldehyde-based sulfa drug Schiff bases	Arabian Journal of Chemistry, Saudi Arabia	9/S1084/2011	ISSN: 1878-5352	4.008	2-11-2011	General
6	J.M. Mir, D.K. Rajak and R.C. Maurya	Oxovanadium(IV) complex of 8-hydroxy quinoline and 3-acetyl-6-methyl-2H-pyran-2,4(3H)-dione: Experimental, theoretical and antibacterial evaluation	Journal of King Saud University of Science, Saudi Arabia	doi.org/10.1016/j.jksus.2018.03.023	ISSN: 1018-3647	3.351	1-3-2018	General
7	JM Mir, N Jain, BA Malik, R Chourasia, PK Vishwakarma, DK Rajak, RC Maurya	Urinary tract infection fighting potential of newly synthesized ruthenium carbonyl complex of N-dehydroacetic acid-N'-o-vanillin-ethylethylenediamine	Inorganica Chimica Acta, Elsevier	467/80/2017	ISSN: 0020-1693	2.264	1-10-2017	Best Five I
8	J.M. Mir and R.C. Maurya	NO news is good news for eyes: A mini review	Annals of Ophthalmology and Visual Sciences-MedDocs, USA	1003/1/2018	NA	0	20-12-2019	General

9	Jan Mohammad Mir, Bashir Ahmad Malik, Mohd Washid Khan and Ram Charitra Maurya	Molybdenum dinitrosyl Schiff base complexes of dehydroacetic acid and thiourea derivatives: DFT-experimental characterization and nosocomial anti-infectious implications	Journal of the Chinese Chemical Society Publisher Wiley-VCH Verlag GmbH & Co. KGaA	doi.org/10.1002/jccs.201800337	Online ISSN:2192-6549	0.862	31-1-2019	General
10	Jan Mohammad Mir, RC Maurya, PK Vishwakarma	Corrosion resistance and thermal behavior of acetylacetonato-oxoper oxomolybdenum (VI) complex of maltol: experimental and DFT studies	Karbala International Journal of Modern Science, Elsevier-Iraq	3-212-2017	ISSN: 2405-609X	0.2	1-12-2017	General
11	J.M. Mir, R.C. Maurya, et al.	A novel Schiff base complex of brain fuel (sugar) coordinated with intelligence mineral (Zn): Synthesis, conjoint DFT-experimental evaluation and super oxide dismutation	Karbala International Journal of Modern Science, Elsevier-Iraq	3/153/2017	ISSN: 2405-609X	0.2	6-7-2017	General
12	J.M. Mir, B.A. Malik and R.C. Maurya	Nitric oxide-releasing molecules at the interface of inorganic chemistry and biology: a concise overview	Reviews in inorganic chemistry, De Gruyter-China	doi.org/10.1515/revic-2018-0017	ISSN 2191-0227	2.595	11-3-2019	General
13	J.M. Mir and R.C. Maurya	A gentle introduction to gasotransmitters with special reference to nitric oxide: biological and chemical implications	Reviews in inorganic chemistry, De Gruyter-China	38/193/2018	ISSN 2191-0227	2.595	19-12-2018	General
14	S. Maajid, J.M. Mir, A. H. Shala, et al	Experimental and molecular topology-based biological implications of Schiff base complexes: a concise review	Reviews in inorganic chemistry, De Gruyter-China	doi.org/10.1515/revic-2018-0023	ISSN 2191-0227	2.595	14-3-2018	General
15	J.M. Mir, P.K. Vishwakarma, B.A. Malik and R.C. Maurya	An old oxovanadium (IV) complex of N-(salicylidene) sulfanilamide: theoretical validity of experimental observations	Inorganic and Nnao-metal Chemistry, Taylor & Francis-USA	doi.org/10.1080/24701556.2019.1569682	Print ISSN: 2470-1556 Online ISSN: 2470-1564	0.631	6-2-2019	General

16	BA Malik, RC Maurya, J. M. Mir, F. Shah	Cobalt(II) Bactericidal and Heat Resistant Complexes of ONS Donor Schiff Base Ligands: Synthesis and Combined DFT - Experimental Characterization	Int. J. Curr. Res. Chem. Pharm. Sci.	3/50-72/2016	ISSN: 2348 - 5213; e - ISSN: 2348 - 5221	6.031	04-04-2016	General
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17	PK Vishwakarma, Jan Mohammad Mir, Ram C Maurya,	Pyrrone-based Cu (II) complexes, their characterization, DFT based conformational drift from square planar to square pyramidal geometry and biological activities	Journal of chemical science, india	128/511/2016	ISSN: 0974-3626 (print version) ISSN: 0973-7103 (electronic version)	1.254	03-03-2016	General
18	J. M. Mir, N. Jain and Maurya RC	PHARMACEUTICAL DESIGN OF NO RELEASE FROM IRON, MANGANESE AND RUTHENIUM NITROSYL COMPLEXES	Int. J Curr. Res.	8/40424/2016	ISSN-075-833X	7	9-9-2016	General
19	Jan Mohammad Mir, R. C. Maurya*, P. K. Vishwakarma, D.K. Rajak, B.A. Malik P. S. Jaget and P. Bohre	Synthesis and Conjoint Experimental - DFT Characterization of some Pyrazolone Functionalized Dioxovanadium (V) Schiff Base Complexes	J Theo and Comput. Sci., America	03/01/2016	ISSN: 2376-130X	0.5	09-08-2016	General
20	R.C. Maurya and J.M. Mir	Medicinal industrial & environmental relevance of metal nitrosyl complexes: A review	IJSER, France	05/305/2014	ISSN 2229-5518	3	09-06-2014	General
21	RC Maurya, BA Malik, JM Mir, PK Vishwakarma	Oxidovanadium (IV) complexes involving dehydroacetic acid and $\beta$ -diketones of bioinorganic and medicinal relevance: Their synthesis, characterization, thermal behavior and DFT aspects	J Mol. Struct, America	1083/343/2014	ISSN: 0022-2860	2.011	04-07-2014	General
22	RC Maurya, BA Malik, JM Mir et al	Mixed-ligand cobalt (II) complexes of bioinorganic and medicinal relevance, involving dehydroacetic acid and $\beta$ -diketones: Their synthesis, hyphenated experimental-DFT, thermal and bactericidal facets	J Mol. Struct, America	1099/266/2015	ISSN: 0022-2860	2.011	3-3-2015	General

23	PK Vishwakarma, JM Mir, RC Maurya	Oxidoperoxidomolybdenum(VI) complexes involving 4-formyl-3-methyl-1-phenyl-2-pyrazoline-5-one and some $\beta$ -diketoenolates Synthesis, spectral, thermal, electrochemical and DFT studies	J thermal analysis and Calorimetry, Springer	124/57/2016	ISSN: 1388-6150 (Print) 1588-2926 (Online)	2.209	07-07-2016	General
24	RC Maurya, BA Malik, JM Mir, AK sharma	Synthesis, Characterization, Thermal behavior, and DFT aspects of some oxovanadium(IV)	J. Coordination Chemistry, Tandfoline America	67/3084/2014	ISSN: 1029-0389	1.703	07-10-2014	General

		complexes involving ONO-donor sugar Schiff bases						
25	RC Maurya, BA Malik, JM mir, et al	Nickel (II) complexes of ONS donor Schiff base ligands: synthesis, combined DFT-experimental characterization, redox, thermal, and in vitro biological investigation	J. Coordination Chemistry, Tandfoline America	68/2902/20 15	ISSN: 1029-0389	1.703	02-12-2015	General
26	J.M. Mir and R.,C Maurya	Experimental and theoretical insights of a novel molybdenum (0) nicotine complex containing CN and NO as co-ligands	Journal of the Chinese Advanced Materials Society, Tandfoline America	doi.org/10.1 080/222436 82.2018.15 34608	Print ISSN: 2224-3682 Online ISSN: 2168-1031	0.5	1-1-2019	General
27	Sheikh Abdul Majid, Muzzaffar Ahmad Mir, Jan Mohammad Mir	Nitrate and phosphate sorption efficiency of mordenite versus zeolite-A at the convergence of experimental and density functionalized evaluation	Journal of the Chinese Advanced Materials Society, Tandfoline America	doi.org/10.1 080/222436 82.2018.15 42342	Print ISSN: 2224-3682 Online ISSN: 2168-1031	0.5	1-1-2019	General
28	J.M. Mir, PK Vishwakarma and R.C. Maurya	Conjoint experimental–theoretic al evaluation of pyrone-salicylic acid hydrazide copper(II) Schiff base complexes: their synthesis, SOD and electrochemical fronts	Journal of the Chinese Advanced Materials Society, Tandfoline America	65./55/2018	Print ISSN: 2224-3682 Online ISSN: 2168-1031	0.5	22-12-2018	General
29	J.M. Mir and R.C. Maurya	Physiological and pathophysiological implications of hydrogen sulfide: a persuasion to change the fate of the dangerous molecule	Journal of the Chinese Advanced Materials Society, Tandfoline America	doi.org/10.1 080/222436 82.2018.14 93951	Print ISSN: 2224-3682 Online ISSN: 2168-1031	0.5	27-8-2018	General



30	JM Mir, S Roy, PK Vishwakarma, RC Maurya	cis-Dioxomolybdenum (VI) complex of N-o-hydroxyacetophenone-isonicotinic acid hydrazide as nosocomial anti-infectious agent: experimental and theoretical study	Journal of the Chinese Advanced Materials Society, Tandfonline America	6/2082/2018	Print ISSN: 2224-3682 Online ISSN: 2168-1031	0.5	1-5-2018	General
31	J.M. Mir and R.C. Maurya	A new Ru(II) carbonyl complex of 2-benzoylpyridine: medicinal and material evaluation at the computational-experimental convergence	Journal of the Chinese Advanced Materials Society, Tandfonline America	6/156/2018	Print ISSN: 2224-3682 Online ISSN: 2168-1031	0.5	5-5-2018	General
32	JM Mir, PK Vishwakarma, S Roy, RC Maurya	Quinoline and pyrazolone functionalized cis-dioxomolybdenum(VI) complexes: synthesis, hyphenated experimental-DFT studies and bactericidal implications	J Coord Chem, america	doi.org/10.1080/00958972.2018.1530767	ISSN: 1029-0389	1.703	16-10-2018	General
33	Jan Mohammad Mir, Deepak Kumar Rajak, Ram Charitra Maurya	Bacterial sensitivity and SOD behavior of N-pyrone glucosamine Schiff base Fe (III) complex: Conjoint experimental-DFT evaluation	J. Coord. Chem	70/3199/2017	ISSN: 1029-0389	1.703	17-9-2017	General
34	Jan Mohammad Mir, Deepak Kumar Rajak, Ram Charitra Maurya	Bio-conjugated N-(2-hydroxy-1-naphthaldehyde)-glucosamine Cu (II) complex: Bacterial sensitivity and superoxide dismutase-like activity	J. Coord. Chem	71/2225/2018	ISSN: 1029-0389	1.703	29-5-2018	General
35	B.A. Malik and J.M. Mir	Synthesis, characterization and DFT aspects of some oxovanadium (IV) and manganese (II) complexes involving dehydroacetic acid and $\beta$ -diketones	J. Coord. Chem	71/104/2018	ISSN: 1029-0389	1.703	18-1-2018	General
36	Jan Mohammad Mir, Ram Charitra Maurya, Washid Khan, Ritesh Chourasia	Bioconjugation among Metallopharmaceuticals: A Review	Novel app drug dev, JUNIPER USA	1/555574/2017	ISSN: 2575-8942	0.530	22-6-2017	General
37	AH Allaie and JM Mir	An Overview of Plant Extracts as Anti-Infectious and Anti-Complemental Tools	Acta Scientific Pharmaceutical Sciences	2/23/2018	ISSN: 2581-5423	0.5	2-2-2018	General

38	J M Mir and F A Itoo	Density Functionalized Drug-Surfactant Interaction of Aqueous SDS-Tartrazine	J. Chem. En. Sci. A. (Chitkara University-Punjab)	5/93/2018	ISSN No. Print : 2349-7564 ISSN No.	0.5	12-11-2018	General
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					Online : 2349-7769			
39	RC Maurya, BA Malik, JM Mir, et al	Two Novel Sugar Schiff base Oxovanadium(IV) Complexes: Their Synthesis, Characterization by Combined DFT-Experimental Approach and Thermal Studies	J Ravishankar University, Science, Raipur	11/28/2014	ISSN 0970-5910	0.5	06-05-2014	General
40	RC Maurya, JM Mir, PK Vishwakarma	Some Aspects of Physiologically Relevant Signaling by Gasotransmitters, NO, CO and H <sub>2</sub> S: A Review	J Ravishankar University, Science, Raipur	28/01/2016	ISSN 0970-5910	0.5	08-07-2016	General
41	RC Maurya, JM Mir, et al	Molecular structure, Vibrational Spectra, HOMO-LUMO and NON-linear properties of sulfa drugs.....	Vishleshna Research journal, India	11/136/201 4	ISSN: 2393-9931	0.5	03-09-2014	General
42	RC Maurya, S Roy, JM Mir, et al	Dioxomolybdenum(VI) complexes involving 8-hydroxyquinoline and substituted 2-pyrazolin- one derivatives: synthesis, Molecular structural spectral and DFT studies	Vishleshna Research journal, India	13/100/201 6	ISSN: 2393-9931	0.5	03-04-2016	General
43	RC Maurya, JM Mir, et al	Synthesis, Characterization, Antibacterial activity, and DFT calculation of some oxoperoxomolybdenum (VI) chelates.....	Proceeding of National conference on emerging trends in chemistry, Jabalpur India	1/62/2012	Mata Gujri College jabalpur India	0.5	06-06-2012	General
44	RC maurya, JM Mir, et al	Basic Chemistry of Toxic Gases in Biomedical Engineering of Mammalian Physiology and Pathophysiology: Signalling by Gasotransmitters, NO, CO and H <sub>2</sub> S and their Therapeutic ...	Indian Journal of New Dimensions (JNMPG College, UP)	1/25/2015	ISSN: 2277-9876	0.5	12-12-2015	General
45	RC Maurya, JM Mir, et al	Density Functionized Electrostatics and Energy Minimization of Dicynodinitrosylmolybd enum (0) Complex Containing Nicotine as a Co-ligand:A Scaffold of Toxicants	Vishleshna Research Journal-India	14/154/201 7	ISSN: 2393-9931	0.5	6-3-2017	General

S.No.	Author(s)	Title of Book / Book Chapter	Publication Place	Publisher & ISSN	Vol No./ Page No./ Year	Publication Date
1	JM Mir	Alzheimer's Disease and Treatment	USA	MedDocs and ISBN: 978-81-936678-1-1	1/1/2017	1-1-2018
2	JM Mir and RC Maurya	Smart Materials of Medicinal and Industrial Relevance	Hyderabad	Avid Science ISBN: 978-93-88170-01-7	1/7/2018	18-7-2018
3	R.C. Maurya and J.M. Mir	Molecular Symmetry and Group Theory: Approaches in Spectroscopy and Chemical Reactions	De Gruyter	De Gruyter, ISBN 3110634961, 9783110634969		3-6-2019
4	J.M. Mir, RC Maurya, et al	Smart Materials of Medicinal and Industrial Relevance	Hyderabad	Avid Science and ISBN: 978-93-88170-01-7	1/136/2018	18-7-2018
5	JM Mir and RC maurya	Industrial and Medicinal Properties of Dioxomolybdenum(VI) Complexes	Germany	Lambert academic publishing, ISBN: 978-3-659-77916-9	2015	9-9-2015
6	JM Mir, RC Maurya	Metal Complexes of Medicinal Relevance	Germany	Lambert Academic Publication, ISBN: 978-3-659-91598-7	2016	08-06-2016
7	RC Maurya, JM mir	A Gentle Introduction to Gasotransmitters, NO, CO	Germany	Lambert Academic Publishing, ISBN: 978-3-330-01114-4	2016	03-09-2016

and H2S

Publishing,  
ISBN:  
978-3-330-0  
1114-4

### Research Methodology/Training/ Conferences/Workshops

Participated in the summer school in "Introduction to ab initio calculations" held from 10<sup>th</sup> to 21<sup>th</sup> Dec. 2012, Organized by UGC Networking Resource Centre in Chemistry, School of Chemistry, University of Hyderabad, Hyderabad (A.P.).

Participated in the summer school in "Advanced NMR Spectroscopy" held from 12<sup>th</sup> to 24<sup>th</sup> Aug. 2013, Organized by UGC Networking Resource Centre in Chemistry, School of Chemistry, University of Hyderabad, Hyderabad (A.P.).

Participated in Winter School on Computational Chemistry 9<sup>th</sup> to 13<sup>th</sup> Dec. 2013, Organized by DST-SERB in Sardar Patel University, Gujrat

Participated in seminar "Innovative Concepts and Modern Technology in Pharma Research" held on 7<sup>th</sup> & 8<sup>th</sup> April, 2015, Organized by pharmacy Department Kalaniketana Polytechnic College, Jabalpur, (M.P.).

Paper Present in National Seminar on "Novel Drug Delivery strategies: A changing and challenging global scenario" 15<sup>th</sup> November 2014, Organized by Guru Ramdas Khalsa Institute Science & Technology, Jabalpur and Sponsored by MPCST, Bhopal.

Paper Present in National Conference on "Plant Based Medicinal Products: Research and Applications" 9<sup>th</sup> November 2014, Organized Jointly by Department of Chemistry and Pharmacy "Association of Pharmacy Professional (APP) MP State Branch.

Paper Present in "National Conference in Emerging Trends in Chemistry" 29<sup>th</sup> to 30<sup>th</sup> December 2012, Organized by the Department of chemistry, M.G.M. Collage, Jabalpur, (M. P.).

Paper Present (Poster) in "National seminar in Expanding Horizon in chemical science" 22<sup>th</sup> to 23<sup>rd</sup> June, 2011, Organized by the Department of chemistry, A.P.S. University, Rewa (M.P.).

Paper Present in "30<sup>th</sup> Young Science Congress 2015" by Madhya Pradesh Council of Science and Technology, Bhopal (M.P.).

### Local – University/College level

Paper Present in "National Science Day Celebration- 2014" Research paper presentation category. 28<sup>th</sup> Feb 2015 Organized by University Co-ordination Cell, Madhya Pradesh Council Science and Technology at Department of Physics and Electronics, R. D. University, Jabalpur (M.P.).

"National Science Day Celebration-2013" Research paper presentation category (1<sup>st</sup> prize) 28<sup>th</sup> Feb to 2<sup>nd</sup> March 2013, Organized by University Co-ordination Cell, Madhya Pradesh Council Science and Technology at Department of Physics, R. D. University, Jabalpur, (M.P.).

### Other Recent Communications

- ❑ R. C. Maurya, P. K. Vishwakarma, J. M. Mir, D. K. Rajak, B. A. Malik and P. Bohre. Comparative DFT and Experimental Studies of Some Novel Dioxovanadium(V) Complexes Containing Semicarbazone and Acylpyrazolone Schiff base Ligands of Bioinorganic and Industrial Relevance: Their Synthesis and Characterization. J. Coord. Chem. (communicated).
- ❑ R. C. Maurya, P. K. Vishwakarma, J. M. Mir, D. K. Rajak. Tetra-coordinated Copper(II) Complexes Involving Chrysin and Substituted  $\beta$ -Diketones: Synthesis, Spectral, Redox behaviour, Thermal, Antibacterial Activity, SOD Activity and DFT Studies. J. Inorg. Biochem. (Communicated).
- ❑ R. C. Maurya, P. K. Vishwakarma, J. M. Mir. Synthesis, Characterization, Thermal, Electrochemical and Molecular Modeling Properties of Thiosemicarbazones Derived ONS Donor Schiff base Ligands Containing Oxidovanadium(IV) and Dioxidovanadium(V) Complexes. Spectrochim. Acta: A (Communicated).
- ❑ R. C. Maurya, P. K. Vishwakarma, J. M. Mir, S. Roy. Synthesis, Spectral, Thermal, DFT Studies and Evaluation of Biological Activity of some cis-dioxomolybdenum (VI) Complexes Involving NOOO-donor Environment of 8-hydroxyquinoline and Substituted Pyrazolin-5-one Derivatives. NJC (Communicated).

- ❑ R. C. Maurya, J. M. Mir P. K. Vishwakarma. Synthesis, Characterization, Quantum Chemical DFT Investigation and Antimicrobial Studies of Some Novel Dinitrosylmolybdenum(0) Complexes Involving Schiff Bases Derived from Dehydroacetic Acid and Thiosemicarbazide/Semicarbazide. Tetrahedron: Asymmetry. (Communicated).
- ❑ R. C. Maurya, J. M. Mir P. K. Vishwakarma. Quantum Chemical Aided Thermodynamics of Electroactive and in vitro Anticancer [Ru(H)(Cl)(CO)-(Bpy)(TPP)] Complex, Journal of Taiba University for Science(Communicated).

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