

Curriculum Vitae

1.	Name and full correspondence address	Dr. Manoj Kumar Bharty (Professor) Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi-221005
2.	Email(s) and contact number(s)	manoj_vns2005@yahoo.co.in ; mkbharty@bhu.ac.in Mob. No: +91-9450533635
3.	Institution	Banaras Hindu University
4.	Date of Birth	05/01/1979
5.	Gender (M/F/T)	Male
6.	Whether differently abled (Yes/No)	No
7.	Academic Qualification (Undergraduate Onwards)	

	Degree	Year	Subjects	University/ Institutions
1.	High School	1993	Hindi, English, Math-2, Science, Social Science, Biology	U.P. Board Allahabad
2.	Intermediate	1995	Hindi, English, Chemistry, Physics, Biology	U.P. Board Allahabad
3.	B.Sc	1999	Botany, Zoology, Chemistry	P.U. Jaunpur
4.	M.Sc	2002	Analytical Chemistry	BHU
5.	PhD	2009	Transition Metal Complexes of nitrogen-sulfur containing ligands	BHU

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

Thesis title	Guide's Name	Institute/Organization/ University,	Year of Award
Transition Metal Complexes of nitrogen-sulfur containing ligands	Late. Prof. N.K. Singh	Banaras Hindu University	2009

9. Work experience (in chronological order).

S.No	Position Held	Name of the Institution	From	To	Pay scale
1.	Lecturer (Asstt. Professor) (Stage 1)	Banaras Hindu University	16/05/2007	16/05/2011	PB-3/AGP 6000/15600-39100
2.	(Asstt. Professor (Stage 2)	Banaras Hindu University	16/05/2011	16/05/2016	PB-3/AGP 7000/15600-39100
3.	(Asstt. Professor (Stage 3)	Banaras Hindu University	16/05/2016	16/05/2019	PB-3/AGP 8000/15600-39100
4.	Associate Professor	Banaras Hindu University	16/05/2019	15/05/2022	Academic level -13A: 1,31, 400 to 2,17,100
5.	Professor	Banaras Hindu University	16/05/2022	Till date	

10. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1.	CSIR-UGC NET 2003	CSIR-UGC	2003
2.	GATE	IIT	2004
3.	JRF (RJNF)	UGC	2005
4.	DST Fast Track Project for Young Scientist (SR/FT/CS-63-2011)	DST	2012
5.	EMEQ Grant	SERB	2015
6.	SERB, Start Up Research Grant (Young Scientist) YSS/2015/001201	SERB	2016

11. Publications (List of papers published in SCI Journals, in year wise descending order): 103

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	N. K. Singh, R.J. Butcher, M K Bharty , A. K. Srivastava and P. Tripathi.	4-[5-(benzylsulfanyl)-1,3,4-oxadiazole-2-yl] pyridine from a single-pot reaction	Acta E	E62	o3473-o3474	2006
2.	N.K. Singh, R. J. Butcher, P. Tripathi, A. Srivastava and M.K. Bharty	5-(4-Phenyl)-1,3,4-oxadiazole-2(3H)-thione	Acta E	E63	o782	2007
3.	N.K. Singh, A.K. Pandey, M. Singh, M.K. Bharty and Ray J. Butcher.	Tetrabutylammonium 5-(2-hydroxyphenyl)-1,3,4-oxadiazole-2-thiolate	Acta E	E63	04327	2007
4.	R. J. Butcher, J.P. Jasinski, N.K. Singh, S.K. Kushwaha and M.K. Bharty	N ² [Bis(benzylsulfanyl)methylene]-2-furohydrazide, R.J. Butcher,	Acta E	E63	04590	2007
5.	N.K. Singh, M.K. Bharty , R. Dulare, R.J. Butcher	Synthesis and X-ray crystallographic studies of Ni(II) and Cu(II) complexes of [5-(4-pyridyl)-1,3,4] oxadiazole-2-thione/thiol formed by transformation of N-(pyridine-4-carbonyl)-hydrazine carbodithioate in the presence of ethylenediamine	Polyhedron	28	2443-2449.	2009

6.	N. K. Singh, S.K. Kushwaha, M.K.Bharty , Ram Dulare, R.J. Butcher	Nickel(II) and Copper(II)Complexes of 5-(4-methoxy-phenyl) [1,3,4] Oxadiazole-2-thione: Synthesis and X-rayCharacterization	Journal of Molecular Structure	936	257	2009
7.	N. K. Singh, Ram Dulare, M. K. Bharty	Nickel(II) and Copper(II) complexes of 5-o-Tolyl-[1,3,4]-oxadiazole-2-thione and ethylenediamine. Syntheses, spectral and structural characterization	Journal of Coordination Chemistry	63	837-847	2010
8.	N.K. Singh, P. Tripathi, M.K. Bharty , A.K. Srivastava, Sanjay Singh, R.J. Butcher	Nickel and Mn(II) complexes of NNS tridentate ligand N'-[2-methoxyphenyl] carbonothioyl] pyridine-2 carbonylhydrazide (H2mcph): Synthesis, spectral and structural characterization.	Polyhedron	29	1939-1945	2010
9.	N.K. Singh, M.K. Bharty , S.K. Kushawaha, U.P. Singh, Pooja Tyagi.	Synthesis, spectral and structural studies of Mn(II) complex of [N'-(pyridine-4-carbonyl)-hydrazine]-carbodithioic acid ethyl ester and Mn(II) and Ni(II) complexes of [N'-(pyridine-4-carbonyl)-hydrazine]-carbodithioic acid methyl ester.	Polyhedron	29	1902-1909.	2010
10.	J. P. Jasinski, R. J. Butcher, S. K. Kushwaha, M. K.Bharty* ,N. K. Singh.	N'[Bis(benzylsulfanyl)methylidene]-4-methoxybenzohydrazide,	Acta E	E66	o1899	2010
11.	N. K. Singh, M. K. Bharty , S.K. Kushawaha, Ram Dulare, R.J. Butcher.	Manganese(II) complexes of 5-(4-pyridyl), 5-phenyl and 5-(4-methoxy-phenyl)-1,3,4-oxadiazole-2-thione containing 2, 2'-bipyridyl/ ethylene diamine: Synthesis, spectral and X-ray characterization	TMC	35	337-344	2010
12.	N. K. Singh, M. K. Bharty . S.K. Kushawaha	Nickel(II) complexes based on 5-phenyl and 5-furan-1,3,4-oxadiazole-2-thiones containing ethylenediamine: Synthesis, Spectral and X-ray characterization.	TMC	35	205-211	2010
13.	Ram Dulare, S.K. Kushawaha, M.K. Bharty* , N.K. Singh	Syntheses, spectral and crystallographic studies of novel monometallic Co(II) and Zn(II) complexes with phenyl-(5-pyridin-	JOMS,	984	96-101	2010

		4-yl[1,3,4]thiadiazol-2-yl)-amine.				
14.	J. P. Jasinski, M. K. Bharty , N. K. Singh, S. K. Kushwaha, R. J. Butcher.	5-Pyridine 4-yl-3H -(1, 3, 4) oxadiazole -2 thione hydrochloride monohydrate, (I), and 4 [5-Ethylsulfanyl) -(1, 3, 4) thiadiazole-2-yl] -pyridinium perchlorate, (II),	Acta E	41	6-11	2011
15.	Ram Dulare, M.K. Bharty , S.K. Kushawaha, N.K. Singh.,	Mononuclear mixed-ligand complexes with 4-phenyl-5-pyridin-4-yl-2,4-dihydro-1,2,4-triazole-3-thione and ethylene diamine: Syntheses, spectral and X-ray crystallographic characterization.	JOMS	985	323-329	2011
16.	M.K. Bharty* , A.K. Srivastava, Ram Dulare, R.J. Butcher, N.K. Singh	Synthesis, spectral and X-ray structural studies of Ni(II) complexes of N'-acylhydrazine carbodithioic acid esters containing ethylenediamine or o-phenanthroline as coligands.	Polyhedron	30	990-996	2011
17.	A. Singh, M.K. Bharty* , S.K. Kushawaha, N.K. Singh	Seven membered chelate ring complex of Mn(II) derived from bis(5-phenyl-2H-1,2,4-triazole)-3-yl-disulfane and cleavage of S-S bond in Co(II) complex: Synthesis, spectral and structural characterization.	Polyhedron	30	1927-1934	2011
18.	Ram Dulare, M. K. Bharty* , S. K. Kushawaha, N. K. Singh	Polymeric Hg(II) and dimeric oxo-bridged manganese(II) complexes derived from N'-(2-methyl-benzoyl)-hydrazinecarbodithioic acid methyl ester: Synthesis, spectral and structural characterization.	Polyhedron	30	1960-1967	2011
19.	M. K. Bharty* , A. Bharti, R.K. Dani, R. Dulare, P. Bharati, N. K. Singh	Synthesis and X-ray structural studies of Cd(II) and Ni(II) complexes of 5-(4-methoxy phenyl), 5-(2-pyridyl) and 5-(2-methoxy phenyl) 1,3,4-oxadiazole-2-thione.	JOMS	1011	34-41	2012
20.	Ram Dulare, M. K. Bharty* , A. Singh, N. K. Singh	Synthesis, spectral and structural studies of 4-Dithiocarboxy-piperazine-1-carboxylic acid ethyl ester and its Co(III), Zn(II) and Cd(II) complexes.	Polyhedron	373-378	31	2012
21.	M.K. Bharty* , A. Bharti, R.K. Dani, S.K.	Studies on novel Cu(II) complexes of 5-(4-hydroxy-phenyl)-1,3,4-thiadiazole-2-	Polyhedron	41	52-60	2012

	Kushawaha, R. Dulare, N.K. Singh	thiol and 5-thiophen-2-yl-3H-1,3,4-oxadiazole-2-thione. Synthesis, spectral and structural characterization.				
22.	M. Singh, M. K. Bharty* , A. Singh, S. Kashyap, U. P. Singh, N. K. Singh.	Mn(II) complexes of N'-(2-methoxybenzoyl)hydrazine carbodithioic acid ethyl ester: synthesis, spectral and structural characterization.	TMC	37	695-703	2012
23.	A. Bharti, M.K. Bharty* , S. Kashyap, U.P. Singh, R.J. Butcher, N.K. Singh.	Hg(II) complexes of 4-phenyl-5-(3-pyridyl)-1,2,4-triazole-3-thione and 5-(4-pyridyl)-1,3,4-oxadiazole-2-thione and a Ni(II) complex of 5-(thiophen-2-yl)-1,3,4-oxadiazole-2-thione: Synthesis and X-ray structural studies.	Polyhedron	50	582-591	2013
24.	A. Bharti, P. Bharati, M.K. Bharty* , R.K. Dani, Sanjay Singh, N.K. Singh.	Mononuclear Ag(I), dinuclear and polymeric Hg(II) complexes of 3-mercapto-4-methyl-4H-1,2,4-triazole: Synthesis, spectral, X-ray, photoluminescence and thermal analysis.	Polyhedron	54	131-139	2013
25.	P. Bharati, A. Bharti, M.K. Bharty* , B. Maiti, R.J. Butcher, N.K. Singh.	Square planar Ni (II) complexes of pyridine-4-carbonyl-hydrazine carbodithioate, 1-phenyl-3-pyridin-2-yl-isothiourea and 4-(2-methoxyphenyl)piperazine-1-carbodithioate involving N-S bonding: An approach to DFT calculation and thermal studies.	Polyhedron	63	222-231	2013
26.	P. Bharati, A. Bharti, M.K. Bharty* , S. Kashyap, U.P. Singh, N.K. Singh	Synthesis, spectral and structural characterization of Ni(II), Cu(II), Zn (II), Cd(II) and Hg(II) complexes with 2-mercapto-5-methyl-1,3,4-thiadiazole: Zn (II) complex acting as a new sensitive and selective fluorescent probe for the detection of Hg ²⁺ in H ₂ O-MeOH medium.	Polyhedron	63	156-166	2013
27.	R.K. Dani, M.K. Bharty* , Om Prakash, Ranjan K. Singh, N.K. Singh.	Ni(II), Cu(II) and Zn(II) complexes of (Z)-N'(1,3,4-thiadiazol-2-yl) acetimidate: synthesis, spectral, solid state electrical conductivity, X-ray diffraction and DFT study.	Polyhedron	65	31-41	2013

28.	A. Bharti, P. Bharati, Ram Dulare, M.K. Bharty* , Dheeraj K. Singh, N.K. Singh.	Studies on phenylmercury (II) complexes of nitrogen-sulfur ligands: Synthesis, spectral, structural characterization, TD-DFT and Photoluminescent properties.	Polyhedron	65	170-180	2013
29.	R.K. Dani, M.K. Bharty* , S.K. Kushawaha, Om Prakash, Ranjan K. Singh, N.K. Singh.	Syntheses, spectral, X-ray and DFT studies of 5-benzyl-N-phenyl-1,3,4-thiadiazol-2-amine, 2-(5-phenyl-1,3,4-thiadiazol-2-yl) pyridine and 2-(5-methyl-1,3,4-thiadiazole-2-ylthio)-5-methyl-1,3,4-thiadiazole obtained by Mn(II) catalyzed reactions.	Journal of Molecular Structure	1054–1055	251-261	2013
30.	M.K. Bharty , Pooja Bharati, A. Bharti, A. Singh, Sanjay Singh, N.K. Singh.	Syntheses, spectral and structural characterization of Ni(II) complexes of 4-amino-5-phenyl/3-pyridyl/thiophen-2H-1,2,4-triazole-3-thione.	J. of Molecular Structure	1056–1057	326-332	2014
31.	S.K. Kushawaha, R.K. Dani, M.K. Bharty , U.K. Chaudhari, V.K. Sharma, R.N. Kharwar, N.K. Singh.	Studies on picolinoyl N'-thiobenz hydrazide and its Zn(II) complex: Synthesis, structure, antibacterial activity, thermal analysis and DFT calculation.	J. of Molecular Structure	1063	60–69	2014
32.	A. Singh, M.K. Bharty* , R.K. Dani, Sanjay Singh, S.K. Kushawaha, N.K. Singh.	Manganese(II) and Zinc(II) complexes of 4-phenyl(2-methoxybenzoyl)-3-thiosemicarbazide: Synthesis, spectral, structural characterization, thermal behavior and DFT study.	Polyhedron	73	98–109	2014
33.	R.K. Dani, M.K. Bharty , S.K. Kushawaha, O. Prakash, V.K. Sharma, R.N. Kharwar, Ranjan K. Singh, N.K. Singh,	Syntheses, spectral and structural characterization of trinuclear and mononuclear Zn(II) complexes of N'-benzoyl hydrazine carboperthioate and 5-phenyl-1,3,4-oxadiazole-2-thione: An approach to DFT calculation, antibacterial and thermal studies.	Polyhedron	81	261–272	2014
34.	R.K. Dani, M.K. Bharty , S. Paswan, Sanjay Singh, N.K. Singh	Mononuclear Ni(II) and dinuclear Cd(II) complexes of 4-phenyl-2H-1,2,4-triazole-3-thione and Mn(II) catalyzed disulphide bond formation in 3,3'-dithiobis (4-phenyl-1,2,4-triazole): Syntheses, structural characterization, thermal analysis and DFT calculation.	Inorganica Chimica Acta	421	519–530	2014

35.	A. Singh, M. K. Bharty , P. Bharati, B. Maiti, Sanjay Singh, N. K. Singh	Synthesis, spectral and structural characterization of hexanuclear copper(I) cluster and cobalt(III) complex of 1-ethyl-3-phenyl-thiourea. An approach to DFT calculation and thermal studies.	Polyhedron	85	918–925	2015
36.	A. Bharti, P. Bharati, U.K. Chaudhari, A. Singh, S.K. Kushawaha, N.K. Singh, M.K. Bharty	Syntheses, crystal structures and photoluminescent properties of new homoleptic and heteroleptic zinc(II) dithiocarbamate complexes.	Polyhedron	85	712–719	2015
37.	P. Bharati, A. Bharti, U.K. Chaudhari, M.K. Bharty , S. Kashyap, U. P. Singh, N.K. Singh	Trinuclear supramolecular Zn(II) complexes derived from N'-(pyridinecarbonyl) hydrazine carboperthioates: Synthesis, structural characterization, luminescent properties and metalloaromaticity.	Inorg. Chim. Acta	425	100–107	2015
38.	O. Prakash, P. Gautam, S. Kumar, P. Singh, R. K. Dani, M. K. Bharty , N. K. Singh, A. K. Ghosh, V. Deckert, R. K. Singh	Surface enhanced Raman scattering investigation of two novel piperazine carbodithioic acids adsorbed on Ag and ZnO nanoparticles.	RSC Adv.	5	5571–5579.	2015
39.	M.K. Bharty , R.K. Dani, S.K. Kushawaha, N.K. Singh, R.N. Kharwar, R.J. Butcher	Mn(II), Ni(II), Cu(II), Zn(II), Cd(II), Hg(II) and Co(II) complexes of 1-phenyl-1H-tetrazole-5-thiol: Synthesis, spectral, structural characterization and thermal studies.	Polyhedron	88	208–221.	2015
40.	M.K. Bharty , R.K. Dani, S.K. Kushawaha, Om Prakash, Ranjan K Singh, V.K. Sharma, R.N. Kharwar, N.K. Singh	Synthesis, spectral characterization, thermal behavior, antibacterial activity and DFT calculation on N'-[bis(methylsulfanyl) methylene]-2-hydroxybenzohydrazide and N'-(4-methoxy benzoyl)-hydrazinecarbodithioic acid ethyl ester.	Spectrochimica Acta	145	98–109	2015
41.	R.K. Dani, M.K. Bharty , Om Prakash, Ranjan K. Singh, Billa Prashanth, Sanjay Singh, N.K. Singh	Ni(II) and Co(III) complexes of 5-methyl-1,3,4-thiadiazole-2-thiol: Syntheses, spectral, structural, thermal analysis and DFT calculation.	J. Coord. Chem	68	2666–2681	2015

42.	Pooja Bharati, A. Bharti, M.K. Bharty , N. K. Singh, S.Kashyap, Udai P.Singh, R.J.Butcher.	Cu(II), Zn(II) and Mn(II) complexes of NNS tridentate and Pd(II) complex of NN(μ -S) tetradentate thiobenzyl esters: Synthesis, spectral and X-ray characterization.	Polyhedron	97	215-226	2015
43.	M.K. Bharty , R.K. Dani, P. Nath, A. Bharti, N.K. Singh, O. Prakash, R. K. Singh, R.J. Butcher.	Syntheses, structural and thermal studies on Zn(II) complexes of 5-aryl-1,3,4-oxadiazole-2-thione and dithiocarbamates: Antibacterial activity and DFT calculation.	Polyhedron	98	84-95	2015
44.	S. Paswan, M.K. Bharty , S. Kumari, S. K. Gupta, N. K. Singh.	Crystal structure of 5-(furan-2-yl)-N-phenyl-1,3,4-oxadiazol-2-amine.	Acta E	E71	o880-o881	2015
45.	P. Nath, M.K. Bharty , R. Chaurasia, S. Kumari, S. K. Gupta.	Crystal structure of N'-[bis(ethylsulfanyl)methylidene]-2-hydroxy-4-methoxy benzohydrazide.	Acta E	E71	o967-o968	2015
46.	P Bharati, A Bharti, P Nath, M.K Bharty , RJ Butcher, NK Singh.	Synthesis, spectral and structural characterization of cobalt (III) dithiocarbamate complexes: Catalytic application for the solvent free enamination reaction.	Polyhedron	102	375-385	2015
47.	M.K. Bharty , R.K. Dani, NK Singh, RJ Butcher.	Polymeric, dimeric and monomeric Mn (II) complexes derived from [N'-(pyridine-4-carbonyl)-hydrazine]-carbodithioic acid methyl ester and 1-isonicotinoyl-4-phenyl-3-thiosemicarbazide: Syntheses, crystal structure and thermal analysis,	Polyhedron	112	67-77	2016
48.	P. Bharati, A. Bharti, P. Nath, S. Kumari, N. K. Singh, M.K. Bharty .	Square planar Pd (II) complexes derived from 1-ethyl-3-phenylthiourea, 3-mercapto-4-methyl-1, 2, 4-triazole and 2-mercapto-5-methyl-1, 3, 4-thiadiazole: Syntheses, spectral, structural characterization and photoluminescence properties.	Inorg. Chim. Acta	443	160-169	2016
49.	A. Bharti, Pooja Bharati, N. K. Singh , M.K. Bharty .	NNS tridentate thiosemicarbazide and 1,3,4-thiadiazole-2-amine complexes of some transition metal ions: Syntheses,	J. Coord. Chem.	69	1258-1271	2016

		structure and fluorescence properties.				
50.	A. Bharti, P. Nath, P. Bharati, S. K. Gupta and M. K. Bharty	Bis[4-(5-anilino-1,3,4-thiadiazol-2-yl)pyridinium] sulfate.	IUCr. Data	1	x160446	2016
51.	Paras Nath, M. K. Bharty , B. Maiti, A. Bharti, R. J. Butcher, J. L. Wikaira, N. K. Singh.	Ag(I), Cu(II), Co(III) and Hg(II) complexes and metal assisted products derived from 4-methylpiperidine-carbodithioate: syntheses, structures, thermal analyses, redox behaviour and fluorescence properties,	RSC Adv.	6	93867–93880	2016
52.	S. Paswan, M.K. Bharty , S. K. Gupta, R. J. Butcher, J. P. Jasinski.	5-(2-Methylfuran-3-yl)-N-phenyl-1,3,4-oxadiazol-2-amine.	IUCr Data	1	x161724	2016
53.	M.K. Bharty , S. Paswan, R.K. Dani, N.K. Singh, V.K. Sharma, R.N. Kharwar, R.J. Butcher.	Polymeric Cd(II), trinuclear and mononuclear Ni(II) complexes of 5-methyl-4-phenyl-1,2,4-triazole-3-thione: Synthesis, structural characterization, thermal behaviour, fluorescence properties and antibacterial activity.	J. of Molecular Structure	1130	181-193	2017
54.	P. Gautam, O. Prakash, R.K. Dani, M.K. Bharty , N.K. Singh, R. K. Singh.	Spectra-structure correlation based study of complex molecules of 1- isonicotinoyl-3-thiosemicarbazide with Ni ²⁺ , Mn ²⁺ and Fe ³⁺ using Raman, UV-visible and DFT techniques.	J. of Molecular Structure	1127	489-497	2017
55.	P.Nath, M.K. Bharty , S. K. Gupta, R.J. Butcher, J. P. Jasinski.	(Benzylthiolato- η S)phenylmercury(II).	ICUr Data	2	x170503	2017
56.	P. Nath, M.K. Bharty* , R. J. Butcher and J. P. Jasinski.	N'-[Bis(methylsulfanyl)methylidene]-2-methoxy-benzohydrazide.	IUCr Data	2	x170489	2017
57.	M. K. Bharty* , S. K. Kushawaha, U. K. Chaudhari R. K. Dani, B. Maiti, R. J. Butcher	Synthesis, structural characterization, electrochemical studies and DFT calculations on nickel(II) complexes of N-picolinoyl- N'-benzothioylhydrazide and 5- (pyridine-4-yl)-2H-1,2,4-triazole-3-thione.	Transition metal chemistry	42	243–252	2017

58.	S. Paswan , M.K. Bharty , U.K. Chaudhari , R. Chaurasia , R.J. Butcher , J.P. Jasinski,.	Syntheses, spectral and structural characterization of Cd(II) complexes of 5-(thiophen-2-yl)-1,3,4-oxadiazole-2-thione, 2-thiohydantoin and 2-thenoyltrifluoroacetone.	Polyhedron	133	137–145	2017
59.	P. Nath, M. K. Bharty , R. K. Dani, M. S. Tomar, and A. Acharya	Mn(II), Co(III), Ni(II), Cd(II) and Cu(II) Complexes of 2-Thenoyltrifluoroacetone: Syntheses, Structures, Photoluminescence, Thermal, Electrochemical and Antitumor Studies on Dalton's Lymphoma Cells.	Chemistry Select	2	10449–10458	2017
60.	S. Paswan, M. K. Bharty , P. Bharati, P. K. Sonkar, V. Ganesan and R. J. Butcher.	Square planar Ni(II) complexes of acetone N'-phenyl-thiosemicarbazone and in situ generated benzoyl thiosemicarbazide ligands: synthesis, spectral and structural characterizations, thermal behaviour and electrochemical studies.	New J. Chem.,	41	15466-15474	2017
61.	R. Chaurasia, A. Bharti, R. J. Butcher, J. L. Wikaira and M. K. Bharty .	4-Cyclohexyl-1-(2-methoxybenzoyl)thiosemicarbazide with an unknown solvent.	IUCr. Data	3	180383	2018
62.	P. Nath, M. K. Bharty , S. K. Kushwaha, B. Maity.	Synthesis, spectral, structural, photoluminescence, thermal and DFT studies of phenyl mercury(II) and nickel (II) complexes of 3-methoxy carbonyl piperidine-1-carbodithiate.	Polyhedron	151	503-509	2018
63.	UK Chaudhari, A Bharti, Paras Nath, Uday Pratap Azad, R Prakash, RJ Butcher, MK Bharty .	Synthesis, structure, photoluminescence and electrochemical properties of mononuclear Ag (I) and polymeric Zn (II) complexes of potassium 4-methyl piperazine-1-carbodithioate,	J. of Molecular Structure	1177	260-268.	2019
64.	Paras Nath, MK Bharty , LB Prasad, RJ Butcher, JP Jesinski	A piperidinium-carbodithioate salt: Synthesis, crystal structure, spectral, cation-interaction and electrochemical studies.	J. of Molecular Structure	1189	51-56	2019
65.	M. K. Bharty , P. Bharati, R.J. Butcher	Mn(II) complex of N'-(furan-2-carbonyl)hydrazine carbodithioic acid methyl ester and Co(II), Cu(II), Zn(II) and	Journal of Scientific Research	63	229-248.	2019

		Fe(III) complexes of N'-(pyridine-4-carbonyl)-hydrazine carbodithioic acid benzyl ester: Synthesis, spectral and X-ray characterization.				
66.	M.K .Bharty , A. Bharti, R. Chaurasia, U.K. Chaudhari, S.K. Kushawaha, P.K. Sonkar, V. Ganesan, RJ Butcher,	Synthesis and characterization of Mn(II) complexes of 4-phenyl (phenyl-acetyl)-3-thiosemicarbazide, 4-amino-5-phenyl-1, 2, 4-triazole-3-thiolate, and their application towards electrochemical oxygen reduction reaction.	Polyhedron	173	114125	2019
67.	R Chaurasia, MK Bharty , Paras Nath, Piyush Kumar Sonkar, Vellaichamy Ganesan, B Maiti, A Bharti, RJ Butcher,	Photophysical, electrochemical and TD-DFT studies of Ni (II) and Mn (II) complexes of N'-(2-methylfuran-3-carbonyl) hydrazine carbodithioic acid ethyl ester.	Polyhedron	174	114160	2019
68.	D. Kundu, K. Prerna, , R. Chaurasia, M. K. Bharty, V.K. Dubey,	Advances in protein misfolding, amyloidosis and its correlation with human diseases	3 Biotech	10(5)	193	2020
69.	S. Jaiswal, M. K. Gond, M. K. Bharty* , B. Maiti, S. Krishnamoorthi, R. J. Butcher	Manganese(II) catalyzed synthesis of <i>bis</i> (N-cyclohexylthiourea) derived from thiosemicarbazide: Structural characterization, fluorescence, cyclic voltammetry, Hirshfeld surface analysis and DFT calculation	J. Mol. Struct.,	1246	131060	2021
70.	R Chaurasia, Shivendra Kumar Pandey, D. K. Singh, M. K. Bharty* , V. Ganesan, S. K. Hira, P. P. Manna, A. Bharti, R. J. Butcher	Antiproliferative activity and electrochemical oxygen evolution by Ni (ii) complexes of N'-(aroyl)-hydrazine carbodithioates	Dalton Transactions	50(40)	14362-14373	2021
71.	P. K. Verma, M. K. Gond, M. K. Bharty , A. Acharya	Mitochondrial pathway mediated apoptosis and cell cycle arrest triggered by cobalt (III) complex in Dalton's lymphoma cells	Journal of Applied Pharmaceutical Science	11(10)	007-015	2021
72.	R. P. Behere, N.	A hydrogen bond cross-linked luminescent	New Journal	45	19787-	2021

	Gupta, S. Roy, R. N. Gautam, M. K. Bharty , C. Chakroborty, B. K. Kuila	supramolecular network polymer and its application for the detection of alkyl iodides with differentiation capabilities from aromatic iodides	Of chemistry	(42),	19794	
73.	S. Chandra, M. K. Gond, M. K. Bharty* , B. Maiti, R. J. Butcher,	Synthesis, structural characterization, DFT study, fluorescence, and redox behaviour of 4-[5-(2-picolylsulfanyl)-1,3,4-oxadiazole-2-yl]-pyridine,	J. Mol. Struct.,	1249	131637	2022
74.	M. K. Gond, A. Shukla, S. K. Pandey, M. K. Bharty* , B. Maiti, A. Acharya, N. Tiwari, D. Katiyar, R. J. Butcher	Mn(II) catalyzed synthesis of 5(4-hydroxyphenyl)-2-(N-phenylamino)-1,3,4-oxadiazole: Crystal structure, DFT, molecular docking, Hirshfeld surface analysis, and <i>in vitro</i> anticancer activity on DL cells	J. Mol. Struct.,	1249	131547	2022
75.	P. K. Verma, R. K. Singh, S. Kumar, A. Shukla, S. Kumar, M. K. Gond, M. K. Bharty* , A. Acharya	Cobalt (III) complex exerts anti-cancer effects on T cell lymphoma through induction of cell cycle arrest and promotion of apoptosis	DARU Journal of Pharmaceutical Sciences	30	127-138	2022
76.	M. K. Bharty* , A. Singh, P. Bharati, S. K. Pandey, D. K. Singh, V. Ganesan, P. K. Verma, A. Acharya, A. Bharti, R. J. Butcher	Electrocatalytic oxygen evolution and antiproliferative activity of Co (III) complexes stabilized by in situ generated bis (5-furan/phenyl-1, 2, 4-triazole)-3-sulfinamide	Applied Organometallic Chemistry	36(2)	e6495	2022
77.	M. K. Gond, S. K. Pandey, R. Singh, M. K. Bharty , P. P. Manna, V. K. Singh, B. Maiti, L. B. Prasad, R. J. Butcher	In Vitro and In-silico Anticancer Activities of Mn(II), Co(II), and Ni(II) Complexes: Synthesis, Characterizations, Crystal structures, and DFT Studies	New Journal Of Chemistry	46 (23)	11056-11070	2022
78.	M.K. Gond, S.K. Pandey, S. Chandra, N. Tiwari, M.K. Bharty , B. Maiti, D. Katiyar, R.J. Butcher	Zinc (II) catalyzed synthesis of 2-(4-methoxyphenyl)-5-(2-pyridyl)-1, 3, 4-thiadiazole: Characterizations, crystal structure, DFT calculation, Hirshfeld surface analysis, and molecular docking analysis.	<i>Journal of Molecular Structure</i>	1267	133586	2022

79.	M.K. Gond, S.K. Pandey, U.K. Chaudhari, P.K. Sonker, M.K. Bharty , V. Ganesan, B. Prashanth, S. Singh	Synthesis, crystal structures and electrocatalytic water oxidation by Mn (II), Co (II) and Ni (II) complexes of thiophene-2-carbohydrazide.	Journal of Molecular Structure.	1270	133886	2022
80.	L. B. Prasad, V. K. Maurya, A. Singh, K. Shiv, M.K. Bharty	Cd(II) Dithiocarbamate Complexes: Synthesis, Spectral Studies, Thermogravimetric Analysis and Semiconducting Behaviour	Asian J. Chem.	35	499-506	2023
81.	MK Gond, N Rai, B Chandra, V Gautam, S Garai, RJ Butcher, MK Bharty	Isolation of potassium salt of oxadiazole-2-thione and in vitro anticancer activities of its Cu (II) and Zn (II) complexes against MDA-MB-231 human breast carcinoma cells	Dalton Transactions	52	10213-10221	2023
82.	S. K. Pandey, S. Gupta, S. Jaiswal, M. K. Gond, M. K. Bharty , R. J. Butcher	Synthesis, Characterizations, Crystal Structure, DFT, and Hirshfeld Surface Analysis of 4-Cyclohexyl-1-(thiophene-2-carbonyl) thiosemicarbazide.	<i>Journal of Chemical Crystallography</i> ,	1-12	0	2023
83.	R.N. Gautam, A. Tiwari, S. Gupta, M.K. Bharty , V. Ganesan, S. Kumar, P. Bharti, R.J. Butcher	Mn (II) complexes of 1, 4-methoxy benzoyl-4-phenyl-3-thiosemicarbazide containing o-phenanthroline and 2, 2-bipyridine as co-ligands: Synthesis, crystal structure, spectral characterization, photoluminescence and electrochemical studies.	Journal of Molecular Structure.	1278	134907	2023
84.	S. Jaiswal, S. K. Pandey, J. Prajapati, S. Chandra, M. K. Gond, M. K. Bharty , I. Tiwari, R. J. Butcher	Cd(II) complexes derived from thiazoline, hydrazide and carbodithioate ligands: synthesis, crystal structures and electrochemical sensing of uric acid	Applied Organometallic Chemistry	37	e7085	2023
85.	R. Singh, S. Gupta, M. K. Bharty , C. S. P. Tripathi, D. Guin	Photoluminescent Copper Nanoclusters in “Turn-Off/Turn-On” Sensing of Picric Acid/Hydrogen Peroxide	Sustainable Chemistry	4	224-235	2023
86.	Shubham Jaiswal, Shivendra Kumar Pandey, Tarun Minocha, S Chandra, MK Bharty , SK	Mn (II) assisted synthesis of N-phenyl-5-(pyridin-3-yl)-1, 3, 4-oxadiazol-2-amine and evaluation of its antiproliferative activity	Journal of Molecular Structure	1281	135075	2023

	Yadav, D Kushwaha, RJ Butcher					
87.	S. Jaiswal, L. Yadav, S. K. Pandey, S. Chandra, M.K Bharty , L.B Prasad, A Acharya	Synthesis, characterizations, crystal structure and anticancer activity of Mn (II), Co (II) and Ni (II) complexes of N'-cyclohexyl-2-thiophene-carbonyl hydrazine carbothioamide	Polyhedron	238	116408	2023
88.	Suryansh Chandra, Jyoti Prajapati, Shubham Jaiswal, Shivendra Kumar Pandey, Ida Tiwari, Lal Bahadur Prasad, Manoj Kumar Bharty	Electrochemical sensing of 4-nitrophenol through heteroleptic complexes of Ag (I) and Hg (II) based on 2-thiazoline-2-thiol: Synthesis, crystal structures, and Hirshfeld analysis	Applied Organometallic Chemistry		e7210	2023
89.	Seema Gupta, Shivendra Kumar Pandey, Sandeep Kumar, Ram Nayan Gautam, AK Patel, MK Bharty , D Kushwaha, A Acharya, RJ Butcher	Experimental, spectroscopic, and theoretical investigation on structural and anticancer activities of Schiff bases derived from isonicotinohydrazide	Journal of Molecular Structure	1293	136212	2023
90.	Suryansh Chandra, Shubham Jaiswal, Alok Shukla, Ankit Kumar Singh, Somenath Garai, A Bharti, A Acharya, MK Bharty	Solvent-dependent crystallization and anticancer activities based on Ni(II) and Co(II) complexes of 1-picolinoyl-4-phenyl-3-thiosemicarbazide: Synthesis, crystal structure, and photoluminescence study	Journal of Molecular Structure	1294	136473	2023
91.	A Singh, K Shiv, R Singh, MK Bharty , PP Manna, LB Prasad	Antiproliferative activity of Fe (ii), Co (ii), Ni (ii), Cu (ii), and Zn (ii) complexes of dithiocarbamate: synthesis, structural characterization, and thermal studies	Dalton Transactions	53	1196-1208	2024
92.	K Shiv, A Singh, S Kumar, LB Prasad, S Gupta, MK Bharty	Evaluation of different regression models for detection of adulteration of mustard and canola oil with argemone oil using fluorescence spectroscopy coupled with chemometrics	Food Additives & Contaminants: Part A	41	105-119	2024
93.	Kunal Shiv, Anupam Singh, Lal Bahadur Prasad, Ram Nayan	Comparative analysis of edible oils classification using Fourier transform infrared and fluorescence spectroscopy	Journal of Food Composition		106056	2024

	Gautam, MK Bharty , Triparna Das	coupled with chemometrics	and Analysis			
94.	A Singh, R Kumar, K Shiv, SK Pandey, MK Bharty , RJ Butcher, LB Prasad	Synthesis, crystal structure and screening for anticonvulsant and antianxiety activities of three new Ni (II), Cu (II), and Zn (II) dithiocarbamate complexes	Journal of Molecular Structure	1298	137052	2024
95.	RN Gautam, SP Sonkar, S Yadav, P Nath, MK Bharty	CoII-catalysed synthesis of N-(4-methoxyphenyl)-5-(pyridin-4-yl)-1, 3, 4-oxadiazol-2-amine hemihydrochloride monohydrate	Acta Crystallographica Section E	80		2024
96.	Suryansh Chandra, Shubham Jaiswal, Ankit Srivastava, Ram Nayan Gautam, Subash C Gupta, Ram Dulare, MK Bharty	Anti-cancer activities based on ZnII complex of potassium 5-thiophen-2-yl-[1,3,4]-oxadiazole-2-thiolate: Synthesis, crystal structure, photoluminescence study and Hirshfeld analysis	Journal of Molecular Structure		138697	2024
97.	Riya Kumari, Shivendra K Pandey, AK Patel, D Kushwaha, A Acharya, MK Bharty	Exploring 2-(benzylthio)-5-(4-nitrophenyl)-1,3,4-oxadiazole as antiproliferative agent: Synthesis, single crystal XRD, DFT, Hirshfeld surface analysis, in vitro antiproliferative activity and molecular docking analysis	Journal of Molecular Structure	1311	138422	2024
98.	R.Merneedi, M. Singh, M. K. Bharty	Exploring Untouched Variant of Bis(2-methyl-1H-indol-3-yl)methane: Enhances Chemo and Mono-selectivity	Chemistry Select	9	202305019	2024
99.	Shubham Jaiswala, Nilesh Raib, Suryansh Chandraa, Ashish Vermab, Vibhav Gautamb, Manu Adhikaric, Sanjay Singhc, M.K. Bharty	Design, Synthesis, and Structural Evaluation of Metal Complexes of Azepane-1-carbodithioate for Targeting Human Breast Cancer: Investigating Cytotoxic Activity against MDA-MB-231 Cell Line	New Journal of Chemistry	48	13589-13601	2024
100.	A Singh, R Kumar, R Patel, T Jaiswal, R Gautam, MK Bharty , LB Prasad	Dithiocarbamate based novel anti-histaminic agents: Synthesis, characterization, crystal structure and thermal study	Dalton Transactions	53	14077-14088	2024
101.	R Chaurasia, A Shukla, SK Pandey, S Gupta, N Shekhar, A Acharya, RJ Butcher, MK Bharty	Exploring the Anticancer activity of 1-(2-methyl-3-furoyl)-4-phenyl-3-thiosemicarbazide and its Mn (II) complex: Synthesis, Spectral, Crystal structures, and Hirshfeld surface ...	Journal of Molecular Structure		139426	2024
102.	SK Pandey, S Kumar, R Kumari, A Acharya, RJ Butcher, MK	Anticancer activity of Co (III) complex containing mixed ligand bis (5-phenyl-1, 2, 4-triazole)-3-sulfinamide and o-phen: Crystal structure, DFT, and	Journal of Molecular Structure	1319	139432	2024

	Bharty	Hirshfeld Surface Analysis				
103.	Shivendra K Pandey, R Chaurasia, Alok Shukla, Riya Kumari, Nishant Shekhar, Arti Srivastava, A Acharya, RJ Butcher, MK Bharty	Exploring the Synthesis, Characterization, Crystal Structures, DFT Calculation, Hirshfeld Surface Analysis, and Anticancer Activity of Ni(II) Complex of 1-(4-Nitrobenzoyl)-4-phenyl-3-thiosemicarbazide	Journal of Molecular Structure		140114	2024

12. Book:

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Mechanisms of Reactions of Metal Complexes in Solution	Debabrata Banerjea and Manoj Kumar Bharty	Royal Society of Chemistry Print ISBN: 978-1-83916-186-5	2022

13. Book Chapter:

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Prospective Study of Different types of Valuable Biopolymers, Biosensors and Biomarkers and their future Challenges	Nishant Shekhar, Ashlesha Kawale, Arti Srivastava, Manoj Kumar Bharty , Pravat K Swain	Multifunctional Inorganic Nanomaterials for Energy Applications, 325	2024
2.	Nanotechnology and its Environmental Nexus	Nishant Shekhar, Manoj Kumar Bharty , Ashlesha Kawale, Arti Srivastava and Kalpana Awasthi,	Contemporary Green Environmental Issues: Local to Global, 114-121	2023

14. Any other Information (maximum 500 words)

i.Number of PhD students guided: **Awarded= 09**

ii.Number of post doc guided: **03**

iii.Number of PhD students Enrolled: **06**

iv.M.Sc Project: **Guided 36.**

v.Administrative responsibility assigned

Members of Professional Bodies	CRSI (Life member)
Member of Earn While Learn Scheme	Institute of Science, BHU
Coordinator	IQAC, Dept. of Chemistry, BHU
Deputy Coordinator	SWAYAM, Course, Dept of Chemistry, BHU
Warden	Bhabha Hostel 2013 to 2022

vi. **Synthetic experience:** I have more than 18 years of research experience in the field of coordination Chemistry.

- (i) More than 3 year of research experience during Ph.D work.
- (ii) More than 12 years of research experience as an Asst. Professor.
- (iii) More than 3 years of experience as an Associate Professor

vii. **Experience with Scientific Equipments: Techniques Known:** ^1H and ^{13}C NMR spectroscopy, Chromatography, FT-IR, UV-Vis, TGA, Cyclic Voltametry, Mass Spectrometers and X-ray diffractometers.

viii. **Computers Skills:** Operating system, Microsoft Word, Word Perfect, etc. Familiar with: X-ray crystallography software such as SHELX, ORTEP and Mercury.

CONFERENCE PAPER/ POSTER/ INVITED TALK (14)

S.No	Title of Paper/ Art Presented	Title of Conference/ Seminar/ Exhibition	Organizer (s)	International/ National/ State or University level
1.	Development of metal complexes of nitrogen-sulfur donor ligands and their cyclic derivatives	National Conference on Emerging Trends in Material Chemistry (NCETMC) & Alumni Meet (NCETMC -2023)	Department of Chemistry, Banaras Hindu University	National (Invited Talk)
2.	Nitrogen-Sulfur containing ligands and their transition Metal complexes	National symposium on Brainstorming meeting on Chemistry at the Interface (BSCI-2022)	Department of Chemistry, Banaras Hindu University	National (Invited Talk)
3.	Electrochemical water oxidation by M(II) (M = Mn, Ni, Co) complexes of Thiophene-2-carbohydrazide	International Conference On Modern Trends in Inorganic Chemistry MTIC-XIX (2022)	Department of Chemistry, Banaras Hindu University	International
4.	Synthesis, spectral, structural characterization, photoluminescence and thermal analysis of Ag(I), Cu(II), Co(III), PhHg(II) complexes and Mn(II)/Ag(I) catalysed products derived from 4-methyl -piperidine	National Conference Emerging Trends & Future Challenges in Chemical Sciences (ETFC-2016)	Department of Chemistry, Kirorimal College, University of Delhi	National

	carbodithioate			
5.	Transition Metal Complexes and assisted products derived 4-Methyl piperidine carbodithioate: Syntheses, structures, thermal analysis, redox behavior and fluorescence properties.	INDO-US International Conference on Nano Technology : Science and applications in Advanced Materials and beyond (NSAAMB-2016)	Department of Chemistry, Institute of Science, BHU, Varanasi	International
6.	Syntheses, spectral, structural characterization, thermal, luminescence, antimicrobial studies of Co(II) complex of thiophene-2- carboxylic acid hydrazide.	International Conference on Factors Affecting the Efficacy of Ayurvedic Medicines (ICFAEAM-2018)	Department of Rasa Shastra, Faculty of Ayurveda, Institute of Medical Science, BHU, Varanasi	International
7.	Ni(II) and Mn(II) complexes of N'-(2-furan-3-carbonyl)hydrazine carbodithioic acid ethyl ester: Synthesis, spectral, structures, photoluminescence, thermal and electrochemical studies	International Conference on Complex and Functional Materials (ICCFM-2018)	S.N. Bose National Centre for Basic Sciences, Kolkata	International
8.	Syntheses, spectral, X-ray structural characterization, Photoluminescence and thermal analysis of Ag(I), Co(III), Cu(II), and Phenylmercury(II) complexes of 4-methyl-piperdine-carbodithioate.	International Conference on Recent Advances in Analytical Sciences (RAAS-2016)	IIT, BHU, Varanasi	International
9.	Syntheses, spectral, structural characterization, of Manganese(II) complexes of 4-phenyl(phenyl-acetyl)-3-thiosemicarbazide and 4-amino-5phenyl-1,2,4-Triazole-3-thione with 1,10-phenanthroline.	National Symposium on Emerging Trends in Chemical Sciences (NSETCS-2018) November 17-18,2018.	Department of Chemistry, Institute of Science, BHU, Varanasi	National
10.	Mn(II) complex based on a new bidentate ligand, [N'-(pyridine-4-carbonyl)-hydrazine]-carbodithio acid ethyl ester; synthesis, spectral and structural studies	National Conference on ADVANCED MATERIALS, NCAM-2008, March 6-8, 2008	U.P.(PG) College, Varanasi, India,	National
11.	synthesis and X-ray structural studies of Ni(II) complexes of 5-(2-methoxy phenyl) and 5-	National seminar on interface of Industry, Biology and Chemistry Research in 21 st Century, Feb 5-7,	University of Allahabad, Allahabad-211002,	National

	(2-pyridyl)-1,3,4-oxadiazole-2-thione containing ethylenediamine as coligand". Presented in,	2011.		
12.	Synthesis, spectral and structural characterization of Mn(II) complex of bis(5-phenyl-2H-1,2,4-triazole)-3-yl-disulfane and Co(II) complex of 5-phenyl-2H-1,2,4-triazole-3-sulfinate.	International conference On Chemistry: Frontiers and Challenges, March 5-6, 2011.	Department of Chemistry, Aligarh Muslim University, Aligarh.	International
13.	Ni(II) complexes of N'-acylhydrazine carbodithioic acid esters containing ethylenediamine or o-phenanthroline as coligands: Synthesis, spectral and X-ray characterization.	National Symposium on Emerging Trends In Chemistry, Feb 19-20, 2011	Department of Chemistry, Banaras Hindu University, Varanasi.	National
14.	Studies on novel Cu(II) complexes obtained from 5-(4-hydroxy-phenyl)-1,3,4-thiadiazole-2-thione and 5-thiophen-2-yl-3H-1,3,4-oxadiazole-2-thione. Synthesis, spectral and structural characterization".	National Conference on "Emerging Trends In Chemistry-Biology Interface November 3-5, 2011	Department of Chemistry, Kumaon University, Nainital, Uttarakhand.	National
15.	Novel Cu(II) and Hg(II) complexes of 5-methyl -1,3,4-thiadiazole -2-thiol: Syntheses, spectral and structural characterization.	National Seminar on Research Methodology in Chemistry, Feb 3-4 2012.	Department of Chemistry, Janta College Bakewar Etawah (U.P),	National
16.	Novel Ni(II) complex of N, N'-ethane-1,2-bis (pyridine-4-carbonyl)-hydrazinecarbodithioate and Hg(II) complex of 4-methyl-piperazine carbodithioate.	National Symposium on Advanced Functional Materials, Feb. 11-12, 2012	Department of Chemistry, Banaras Hindu University,	National

17.	Syntheses, spectral, structural analysis and DFT calculation of Zn(II), Cd(II) and Hg(II) complexes of 1-phenyl-1H-tetrazole-5-thiol”	Symposium on Modern Trends in Inorganic Chemistry MTIC-XV, Feb.13-16, 2013	Department of Chemistry, IIT, Roorkee.	National
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