


Curriculum Vitae	
Dr. Niraj Kumari Assistant Professor Department of Chemistry Guru Ghasi Das University Bilaspur, Chhatishgarh Email: nirajchem@gmail.com	
Professional details:	
Oct. 24, 2019-Present	Assistant Professor, Guru Ghasidas University, Bilaspur, Chhatishgarh
Aug. 16, 2017- Oct 23	Assistant Professor KIIT Deemed to be university
Academic/Educational details	
PhD	Banaras Hindu University, Varanasi, India.
M.Sc.	Inorganic Chemistry, Department of Chemistry, Banaras Hindu University, Varanasi, India (First Division)
B.Sc.	Chemistry, MMV, Banaras Hindu University, Varanasi, India (First Division)
XII	C.B.S.E Board, Jawahar Navodaya Vidyalaya, Bihiya, Bhojpur (First Division)
X	C.B.S.E Board, Jawahar Navodaya Vidyalaya, Bihiya, Bhojpur (First Division)
Awards and Fellowships:	
CSIR-UGC Junior Research Fellowship (2005-2010)	
Research associate In CSIR Funded Project (2010)	
Women Scientist in WOS-B Scheme (2011-12)	
Inspire Faculty Award (2012-17)	
Prof. B.C. Halder Memorial award in annual meeting of Indian Chemical Society at Allahabad, 2011.	
Young Scientist Award in annual meeting of Asian Biophysical Society at Jeju, South Korea, 2013	
Publications:	
<ol style="list-style-type: none"> 1. Niraj Kumari, Rishikesh Prajapati, Lallan Mishra, Reactivity of $M(en)Cl_2$ ($M = Pd^{II}/Pt^{II}$, $en = 1,2$-diaminoethane) with N,N-bis(salicylidene)-p-phenylenediamine: Binding with Hexafluorobenzene, Polyhedron 27, 2008, 241-248. 2. Niraj kumari, Rishikesh prajapati, Osamu Hayashida and Lallan Mishra, Synthesis and characterization of coordination polymers of a carboxylato cyclophane with metal [Cu(II), Zn(II), and Cd(II)]-2,2 bipyridines, polyhedron, 2010, (29) 2755-2761. 	

3. Yi Shi, Bonnie B. Toms, Namrata Dixit, Niraj Kumari, Lallan Mishra, Jerry Goodisman and James C. Dabrowiak, Cytotoxicity Studies on Cu(II) and Zn(II) 2,2-Bipyridyl Complexes as a Function of Recovery Time, *Chem. Res. Toxicol.* 2010, 23(8), 1417-1426.
4. Niraj Kumari, Brajesh Kumar Maurya, Raj Kumar Koiri, Surendra Kumar Trigun, Lallan Mishra, DNA - binding, photocleavage and cytotoxic studies of a Pt^{II}-Cyclophane bearing *N,N*-bis(salicylidene)-*p*-phenylenediamine, *Med chem comm.* 2011, 2, 1208-1216
5. Flora Thorp-Greenwood, Michael P. Coogan, Lallan Mishra, Niraj kumari, Gita Rai, Synthesis, Photophysical Properties, DNA Interactions And Cellular Imaging Properties of Rhenium Dppz Complexes With Cellular Localisation Vectors, *New journal of chemistry* 2012,34, 54-60.
6. Niraj kumari, Benzamin D. Ward, Sanjib Kar and Lallan Mishra, Reactivity of nitrilotriacetic acid with polypyridyl protected as well as naked copper(II) nitrate, *Polyhedron*, 2012, 33, 425-434.
7. Md. Amin Hasan, Niraj Kumari, Brajesh Pathak and Lallan Mishra' Mixed ligand Zn(II) complexes containing 2,2 bipyridine and (o-)/ (p-) carboxylato phenyl azo pentane 2,4-dione: Synthesis, Characterization, colorimetric and fluorometric modulation in presence of Ag⁺ ions, *Polyhedron* 2013,50, 306-313.
8. Pramod Kumar yadav, Niraj Kumari, Pradip Pachfule, Rahul Banerjee and Lallan Mishra, Metal (Zn^{II},Cd^{II}) 1, 10-phenanthrolines containing coordination polymers constructed on the skeleton of polycarboxylates: synthesis, characterization, micro structural and gas adsorption studies, *Crystal Growth and Design* 2012, 12, 5311-5319.
9. Niraj Kumari, Md. Amin Hasan and Lallan Mishra, Reactivity of tetrabutyl ammonium iodide with a heteronuclear 6 Copper(II)-4Na(I) Complex: Selective recognition of Iodide ion, *I & EC*, 2013, 52, 15007-15014
10. Abhishek Rai, Niraj Kumari, Ashish Kumar Srivastava and Lallan Mishra, Synthesis and characterization of bispentafluorophenyl carbohydrazone/ thiocarbohydrazone: selective recognition of F⁻ ions. *Tetrahedron letter* 54 (2013), 7151-7155.
11. Promod Kumar Yadav, Alok Kumar Singh, Anup Kumar, Niraj Kumari, Antonino Gulino, Lallan Mishra and Tarkeshwar Gupta, Azobenzamide-based proteomorphous

objects as a light/pH-induced photoswitchable module, *Rsc. Adv.* 2014,4, 7174-7177.

12. Abhishek Rai, Niraj Kumari, Rohini Nair, Kiran Singh and Lallan Mishra, A new rhodamine derivative as a single optical probe for the recognition of Cu²⁺ and Zn²⁺ ion, *RSC Adv.*, 2015, 5, 14382-14388.
13. Priti Sinha, Niraj Kumari, Kanhaiya Singh, Kiran Singh, Lallan Mishra, Homoleptic bisterpyridyl complexes: Synthesis, characterization, DNA binding, DNA cleavage and topoisomerase II inhibition activity, *Inorganic chimica acta* 432 (2015) 71–80.
14. Alok Kumar Singh, Promod Kumar Yadav, Niraj Kumari, Rajamani Nagarajana and Lallan Mishra, A light/pH/multiple ion-driven smart switchable module for computing sequential logic operations via a resettable dual-optical readout, *J. Mater. Chem. C*, 2015, 3, 12123.
15. Md. Amin Hasan, Niraj Kumari, Kanhaiya Singh, Kiran Singh, Lallan Mishra, Mixed ligand complexes of Cu(II)/Zn(II) ions containing (*m*-)/(*p*-) carboxylato phenyl azo pentane 2,4-dione and 2,2 bipyridine/1,10 phenanthroline: Synthesis, characterization, DNA binding, nuclease and topoisomerase I inhibitory activity, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 152 (2016) 208–217.
16. Abhishek Rai, Niraj Kumari, Ashish kumar Srivastava, Sandeep kumar Singh, Saripella Srikrishna and Lallan Mishra, Rhodamine hydrazone as OFF-ON-OFF type selective sequential sensor of Al³⁺ and N₃⁻ ions, *Journal of Photochemistry and Photobiology A: Chemistry*, 319–320 (2016) 78–86,
17. Ashish Kumar Srivastava, Alok Kumar Singh, Niraj Kumari, Richa Yadav, Antonino Gulino, Adolfo Speghini, Rajamani Nagarajan and Lallan Mishra, Pyridyl Substituted 4-(1,3-Dioxo-1H,3H- benzo[de]isoquinolin-2- ylmethyl)-benzamides with Aggregation Enhanced Emission and Multi-Stimuli- Responsive Properties, *Journal of Luminescence*, 182, 2016, 274-80
18. Kamini Tripathi, Abhishek Rai, Amarish Kumar Yadav Saripella Srikrishna, Niraj Kumari and Lallan Mishra, Fluorescein hydrazone-based supramolecular architectures, molecular recognition, sequential logic operation and cell imaging, *RSC Advances.*, 7,

2017, 2264

19. Niraj Kumari, Rishikesh Prajapati, Lallan Mishra, Selective binding of benzoquinone with a Pt^{II}-cyclophane constructed on the skeleton of *N,N*-bis(salicylidene)-*p*-phenylenediamine: Synthesis and spectroscopic studies, Indian Journal of Chemistry Section , 48A (2009) 1644 – 1651.
20. Niraj Kumari, Vinod kumar yadav and Lallan Mishra, Pd(II) catalyzed transformation of Schiff bases in complexes of the type *trans*- [PdCl₂(NH₂Ar-X)] (X= H, CH₃, Cl): Reactivity with aldehydes and Heck coupling reaction, Indian J Chem, Sec A, 2012, 51A, 554-563.
21. Vinod Kumar Yadav, Niraj Kumari, Lallan Mishra, Reactivity of tricine in presence of Cu(ClO₄)₂.6H₂O and 2,2-bipyridine: synthesis, characterization and magnetic property, Indian Journal of chemistry, Indian J Chem, 50A, 1035-1042, 2011
22. Niraj Kumari and Lallan mishra, Reactivity of carboxylato cyclophane with hexafluorobenzene and Cu^{II}-2,2-bipyridine, Indian chemical society, 2011, 88, 1-6.
23. Arjun singh Rana, Nayan Parekh, Harish Dabhi, Dipak bhoi and Niraj Kumari, Synthesis, Crystal Structural Characterization and Biological Properties of Thiosemicarbazones of Schiff Bases Derived from 4-Acyl-2-pyrazoline-5-one, E-Journal of Chemistry, 2011, 8(4), 1820-1831.
24. Niraj Kumari and Lallan Mishra, DNA binding / cleavage studies of known hexanuclear /trinuclear Copper(II) complexes in presence of standard activators, Indian chemical society, 2012.
25. Ashish Kumar Srivastava, Niraj Kumari, Rais Ahmad Khan, Richa Rai, Geeta Rai, Sartaj Tabassum, and Lallan Mishra, Synthesis, characterization, DNA cleavage activity and cytotoxicity of mononuclear and trinuclear Cu(II) complexes containing di carboxylato-pyrazole as ligand, Indian Journal of Chemistry, Vol. 52A, July 2013, pp. 835-844.
26. Abhishek Rai, Niraj Kumari and Lallan Mishra, A quick look in the recognition and sensing of fluoride anion, J. Indian Chem. Soc., Vol. 91, August 2014, pp. 1439-1442
27. N. Kumari, N.Dixit, R. Gaur, P. Sinha and L .Mishra, Transition Metal Complexes and their binding with DNA in New Trends in Coordination, BioInorganic, and applied Inorganic Chemistry, Editor, M. Melnik, P. Segla, M. Tatarko, Slovak University of Technology Press, Bratislava 2011, pp320-334.

28. Niraj Kumari, Mudit Dixit, H.W. Roesky and Lallan Mishra: Thiocyanato bridged heterodinuclear complex $[\text{Cu}(\text{bpy})_2(\mu\text{-NCS})\text{Ru}(\text{bpy})_2(\text{NO}_3)](\text{PF}_6)_2$ and its binding with Cd(II), Hg(II), Pb(II) and Ag(I) Ions, Chemistry of Sustainable Development: Chapter 15, Springer, 2012, pp 231-248.