

Dr. Bhupesh S. Bhatt

Designation : Assistant Professor

Specialization : Organic Chemistry

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Educational Qualifications

- Ph.D., M.Sc. (Organic Chemistry)

Academic Experience

- 7 Years

Research Area

- Organic Synthesis, Bioorganic and Bioinorganic Chemistry

No. of Publication : 49

List of Publications

Sr No	Title of the Article	Authors	Journal Name	Vol.	Number	Pages	Year
1	Synthesis, characterization and biological activities of ciprofloxacin drug based metal complexes.	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Acta Chimica Slovenica	59	3		2012
2	Synthesis and evaluation of gold (III) complexes as efficient DNA binders and cytotoxic agents	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A;	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	110		20-27	2013
3	Topoisomerase inhibition, nucleolytic and electrolytic contribution on DNA binding activity exerted by biological active analogue of coordination compounds	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A;	Applied biochemistry and biotechnology	166	8	1949-1968	2012
4	Spectrophotometric determination of ciprofloxacin by ion pair formation	Patel, MN; Bhatt, BS; Gandhi, DS; Dosi, PA; Parmar, PA;	Journal of Analytical Chemistry	67	7	655-660	2012
5	DNA interaction, free radical scavenging and in vitro antibacterial activity of drug based copper (II) complexes	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Applied Organometallic Chemistry	25	9	653-660	2011
6	Antibacterial, DNA interaction and superoxide dismutase activity of drug based copper (II) coordination compounds	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Polyhedron	29	17	3238-3245	2010
7	Study of SOD Mimic and Nucleic Acid Interaction Activity Exerted by Enrofloxacin Based Copper (II) Complexes	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A;	Chemistry & biodiversity	9	12	2810-2824	2012

8	Interaction of palladium (II) coordination compounds with calf thymus DNA and their antibacterial activity	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Inorganic Chemistry Communications	21		61-64	2012
9	Synthesis, characterization, antibacterial activity, SOD mimic and interaction with DNA of drug based copper (II) complexes	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S; Thakkar, Vasudev R;	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	78	2	763-770	2011
10	Synthesis, characterization, antibacterial activity and DNA interaction studies of drug-based mixed ligand copper (II) complexes with terpyridines	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Medicinal Chemistry Research	21	9	2723-2733	2012
11	In vitro bacteriostatic and DNA interaction studies of drug-based mixed-ligand complexes of cobalt (II)	Patel, Mohan; Chhasatia, Mehul; Bhatt, Bhupesh;	Medicinal chemistry research	20	2	220-230	2011
12	Synthesis, Characterization, Covalent Binding, and Degree of Unwinding of Platinum (II) Bipyridine Complexes	Patel, Mohan; Gandhi, Deepen S; Parmar, Pradhuman A; Bhatt, Bhupesh S; Patidar, Anshul P;	Zeitschrift für anorganische und allgemeine Chemie	638	5	838-843	2012
13	Antibacterial and Superoxide Dismutase Activity as Well as DNA Interactions of Ciprofloxacin Based Ternary Copper (II) Phenanthroline Complexes	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Zeitschrift für anorganische und allgemeine Chemie	637	11	1602-1611	2011
14	Synthesis, spectral investigation and biological interphase of drug based cytotoxic square pyramidal coordination compounds	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A; Amaravady, Narasimhacharya VRL;	Applied Organometallic Chemistry	26	5	217-224	2012

		Movaliya, Hetal V;					
15	Square planar palladium (II) complexes of bipyridines: synthesis, characterization, and biological studies	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Journal of Coordination Chemistry	65	21	3833-3844	2012
16	DNA binding, cytotoxicity and DNA cleavage promoted by gold (III) complexes	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A;	Inorganic Chemistry Communications	29		190-193	2013
17	Nucleic acid interaction and antibacterial behaviours of a ternary palladium (II) complexes	Patel, Mohan N; Dosi, Promise A; Bhatt, Bhupesh S;	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	86		508-514	2012
18	Thermal, spectral, and thermodynamic studies for evaluation of calf thymus DNA interaction activity of some copper (II) complexes	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A;	Journal of thermal analysis and calorimetry	107	1	55-64	2012
19	Spectroscopic study of DNA hydrolysis, DNA intercalative, and electrostatic interaction activity exerted by drug based coordination compounds	Patel, Mohan N; Bhatt, Bhupesh S; Dosi, Promise A;	Zeitschrift für anorganische und allgemeine Chemie	638	1	152-162	2012
20	Half sandwich rhodium (III) and iridium (III) complexes as cytotoxic and metallonuclease agents	Vekariya, Pankajkumar A; Karia, Parag S; Bhatt, Bhupesh S; Patel, Mohan N;	Applied biochemistry and biotechnology	187	2	556-569	2019
21	Synthesis, characterization and biological applications of some substituted pyrazoline based palladium (II) compounds	Thakor, Khyati P; Lunagariya, Miral V; Bhatt, Bhupesh S; Patel, Mohan N;	Applied Organometallic Chemistry	32	11	e4523	2018
22	Effect of substituents on the biological activities of piano	Vekariya, Pankajkumar A;	Journal of Inorganic and	28	6	2749-2758	2018

	stool η 5-cyclopentadienyl Rh (III) and Ir (III) complexes	Karia, Parag S; Bhatt, Bhupesh S; Patel, Mohan N;	Organometallic Polymers and Materials				
23	Fluorescence and absorption studies of DNA–Pd (II) complex interaction: Synthesis, spectroanalytical investigations and biological activities	Thakor, Khyati P; Lunagariya, Miral V; Bhatt, Bhupesh S; Patel, Mohan N;	Luminescence	34	1	113-124	2019
24	Bipyrazole-based palladium (II) complexes as DNA intercalator and artificial metallonuclease	Thakor, Khyati P; Lunagariya, Miral V; Bhatt, Bhupesh S; Patel, Mohan N;	Monatshefte für Chemie-Chemical Monthly	150	2	233-245	2019
25	Synthesis, characterization and biological evaluation of in vitro antibacterial, sod-mimic and cytotoxic activities of gatifloxacin based square pyramidal copper (ii) complexes	Gandhi, Divyang H; Bhatt, Bhupesh S;	PRAJÑĀ-Journal of Pure and Applied Sciences			78	2019
26	Fluorescence and absorption titrations of bio-relevant imidazole based organometallic Pd (II) complexes with DNA: synthesis, characterization, dna interaction, antimicrobial, cytotoxic and molecular docking studies	Thakor, Khyati P; Lunagariya, Miral V; Bhatt, Bhupesh S; Patel, Mohan N;	Journal of Inorganic and Organometallic Polymers and Materials	29	6	2262-2273	2019
27	Synthesis, characterization and biological activities of imidazo [1, 2-a] pyridine based gold (III) metal complexes	Kanthecha, Darshana A; Bhatt, Bhupesh S; Patel, Mohan N;	Heliyon	5	6	e01968	2019
28	DNA Interaction, in vitro Antibacterial and Cytotoxic Activities of Ru (III) Heterochelates	Karia, Parag S; Vekariya, Pankaj A; Patidar, Anshul	Acta Chimica Slovenica	66	4	944-949	2019

		P; Kanthecha, Darshana N; Bhatt, Bhupesh S; Patel, Mohan N;					
29	Spectroscopic and electrochemical study for evaluating DNA interaction activity of 4- (3- halophenyl)- 6- (pyridin- 2- yl) pyrimidin- 2- amine based piano stool Cp* Rh (III) and Ir (III) complexes	Vekariya, Pankajkumar A; Karia, Parag S; Bhatt, Bhupesh S; Patel, Mohan N;	Applied Organometallic Chemistry	33	10	e5152	2019
30	Heteroleptic N, N-donor pyrazole based Pt (II) and Pd (II) complexes: DNA binding, molecular docking and cytotoxicity studies	Patel, Nikita J; Bhatt, Bhupesh S; Patel, Mohan N;	Inorganica Chimica Acta	498		1191 30	2019
31	DNA interaction, cytotoxicity and molecular structure of cobalt complex of 4 amino N-(6-chloropyridazin-3-yl) benzene sulfonamide in the presence of secondary ligand pyridine	Pandya, Sachin; Patel, Urmila; Chaudhary, Kaushik P; Socha, Bhavesh Patel, Nikita; Bhatt, Bhupesh;	Applied Organometallic Chemistry	33	12	e5235	2019
32	Single crystal, DNA interaction and cytotoxicity studies of rhenium (I) organometallic compounds	Varma, Reena R; Pursuwani, Bharat H; Suresh, E; Bhatt, Bhupesh S; Patel, Mohan N;	Journal of Molecular Structure	1200		1270 68	2020
33	Tetrazolo [1, 5-a] quinoline moiety-based Os (IV) complexes: DNA binding/ cleavage, bacteriostatic and photocytotoxicity assay	Pursuwani, Bharat H; Bhatt, Bhupesh S; Vaidya, Foram; Pathak, Chandramani;	Journal of Biomolecular Structure and Dynamics				2020

		Patel, Mohan N;					
34	Exploring qualitative and quantitative contributions of intermolecular interactions, DNA-binding and in vitro cytotoxic activity of isostructural and isomorphous Cd and Zn complexes	Alalawy, Mohammed Dawood; Patel, Urmila H; Bhatt, Bhupesh S; Patel, Nikita J;	Polyhedron	185		1145 95	2020
35	Cell apoptosis induced by ciprofloxacin based Cu (II) complexes: cytotoxicity, SOD mimic and antibacterial studies	Bhatt, Bhupesh S; Gandhi, Divyang H; Vaidya, Foram U; Pathak, Chandramani; Patel, Tushar N;	Journal of Biomolecular Structure and Dynamics			8-Jan	2020
36	Bipyrazole Based Novel Bimetallic μ -oxo Bridged Au (III) Complexes as Potent DNA Intercalative, Genotoxic, Anticancer, Antibacterial and Cytotoxic Agents	Kanthecha, Darshana N; Bhatt, Bhupesh S; Patel, Mohan N; Raval, Dilip B; Thakkar, Vasudev R; Vaidya, Foram U; Pathak, Chandramani;	Journal of Inorganic and Organometallic Polymers and Materials	30	12	5085- 5099	2020
37	Oxadiazole based Os (IV) compounds as potential DNA intercalator and cytotoxic agents	Pursuwani, Bharat H; Bhatt, Bhupesh S; Vaidya, Foram U; Pathak, Chandramani; Patel, Mohan N;	Inorganic Chemistry Communications	119		1080 70	2020
38	Synthesis, characterization, structural-activity relationship and biomolecular interaction studies of heteroleptic Pd (II) complexes with acetyl pyridine scaffold	Patel, Nikita J; Bhatt, Bhupesh S; Vekariya, Pankajkumar A; Vaidya, Foram U; Pathak, Chandramani;	Journal of Molecular Structure	1221		1288 02	2020

		Pandya, Juhi; Patel, Mohan N;					
39	Role of metal Cu (II) and Ag (I) on molecular structure of 4-amino-N-(2, 6-dimethoxypyrimidin-4-yl) benzenesulfonamide in presence of 3-methyl pyridine: Synthesis, spectral, crystallographic and DNA interaction studies	Socha, Bhavesh N; Patel, Urmila H; Pandya, Sachin B; Chavda, Bhavin R; Chaudhary, Kaushik P; Patel, Bharatkumar D; Patel, RH; Patel, Nikita J; Bhatt, Bhupesh;	Polyhedron	188		1146 96	2020
40	Biological activities of pyrazoline-indole based Re (I) carbonyls: DNA interaction, antibacterial, anticancer, ROS production, lipid peroxidation, in vivo and in vitro cytotoxicity studies	Varma, Reena R; Pandya, Juhee G; Vaidya, Foram U; Pathak, Chandramani; Bhatt, Bhupesh; Patel, Mohan N;	Chemico-Biological Interactions	330		1092 31	2020
41	Coordination behavior of succinylsulfathiazole–Crystal structure of [Cu (SST).(Pyridine) 3. H ₂ O] n, DNA interaction and cytotoxic studies	Chaudhary, Kaushik P; Patel, Urmila H; Pandya, Sachin B; Socha, Bhavesh N; Padariya, Taruna J; Alalawy, Mohammed Dawood; Chavda, Bhavin R; Patel, RH; Patel, Nikita J; Bhatt, Bhupesh;	Journal of Molecular Structure	1225		1292 62	2021
42	Synthesis, Characterization and Biological Application of Ppyrazolo [1, 5-a]	Varma, Reena; Pandya, Juhee; Vaidya, Foram;	Acta Chimica Slovenica	67	3	957- 969	2020

	pyrimidine Based Organometallic Re (I) Complexes	Pathak, Chandramani; Bhatt, Bhupesh; Patel, Mohan N;					
43	Divalent zinc complex of succinylsulfathiazole: Synthesis, spectral, molecular structure, DNA interaction profile and Hirshfeld surface analysis	Chaudhary, Kaushik P; Socha, Bhavesh N; Pandya, Sachin B; Dubey, Rahul P; Chavda, Bhavin R; Patel, Urmila H; Patel, RH; Patel, Nikita J; Bhatt, Bhupesh S;	Inorganic Chemistry Communications	122		1083 18	2020
44	Combined experimental and computational studies on molecular structure of nickel complex of 4-amino-N-(1, 3-thiazol-2-yl) benzenesulfonamide with coordinated pyridine	Pandya, Sachin B; Socha, Bhavesh N; Chaudhary, Kaushik P; Dubey, Rahul P; Chavda, Bhavin R; Patel, Urmila H; Patel, Maheshkumar K; Patel, Nikita J; Bhatt, Bhupesh S;	Inorganic and Nano-Metal Chemistry				2020
45	Synthesis, Characterization, and Biological Evaluation of Osmium (IV) Pyrazole Carbothioamide Complexes	Pursuwani, Bharat H; Bhatt, Bhupesh S; Vaidya, Foram U; Pathak, Chandramani; Patel, Mohan N;	Polycyclic Aromatic Compounds				2020
46	Fluorescence, DNA Interaction and Cytotoxicity Studies of 4, 5-Dihydro-1H-Pyrazol-1-Yl Moiety Based	Pursuwani, Bharat H; Bhatt, Bhupesh S; Vaidya, Foram	Journal of Fluorescence				2021

	Os (IV) Compounds: Synthesis, Characterization and Biological Evaluation	U; Pathak, Chandramani; Patel, Mohan N;					
47	Synthesis, Characterization, and Biological Studies of In Vitro Antibacterial, and Cytotoxic Activities of Norfloxacin Based Square Pyramidal Copper (II) Complexes	Gandhi, Divyang H; Bhatt, Bhupesh S; Bhatt, Keyur D;	Biointerface Research in Applied Chemistry				2020
48	Mechanistic insight of cell anti-proliferative activity of fluoroquinolone drug-based Cu (II) complexes	Gandhi, Divyang H; Vaidya, Foram U; Pathak, Chandramani; Patel, Tushar N; Bhatt, Bhupesh;	Molecular Diversity				2021
49	Molecular structure investigation, Hirshfeld surface analysis and DNA interaction of a cadmium complex of 4-amino-N-(1, 3-thiazol-2-yl) benzenesulfonamide monohydrate in the presence of the secondary ligand β -picoline	Alalawy, Mohammed Dawood; Patel, Urmila H; Padariya, Taruna J; Chaudhary, Kaushik P; Socha, Bhavesh N; Chavda, Bhavin R; Bhatt, Bhupesh S; Patel, Nikita J;	Polyhedron			1151 37	2021

List of Minor/ Major projects carried out

UGC- Start-Up Research Project