Curriculum Vitae

1.	Name	:	**Dr. Yogendra Singh**
2.	Father's Name	:	Late Shri Ram Singh
3.	Date of Birth		01/07/1982
4.	Corresponding Address with Contact No. & Email	:	Department of Chemistry, A.P.S. University Rewa (M.P.) 486003, India Mobile. (I.) 9407302279 (II.) 9826599960 ysapsurewa182@gmail.com
5.	Permanent address	:	Village Post -Jhand, Tehsil- Rampur Baghelan, Distt. -Satna (M.P.)
6.	Academic Qualifications	:	M.Sc., M. Phil. & Ph.D. (Chemistry)
7.	Teaching Experience	:	13 years UG and 12 years PG Classes (Chemistry)
8.	Membership/Fellowship of Academies/Institutions/Professional Societies	:	1) Life Member of Indian Science Congress Association (Membership No. L27052). 2) Life Member of the Indian Chemical Society [Fellowship No. F/7781(LM)]. 3) Annual member of Indian council of Chemists [Fellowship No. F/8157/(AF)]. 4) Annual member of Indian council of Chemists [Fellowship No. F/8157/(AF)]. 5) Annual member of Indian council of Chemists [Fellowship No. F/8604/(AF)]. 6) Annual member of Indian council of Chemists [Fellowship No. F/XXXX/(AF)].
9.	Publications	:	30 Research Papers published & 2 Communicated

10. **Education details**

S. No.	Exam/Degree	Board/University	Percentage	Year of passing
1.	B.Sc. (CBZ Group)	A.P. S. University, Rewa (M.P.)	67.22 %	2002
2.	M.Sc. Chemistry	A. P. S. University, Rewa (M.P.)	69.16 %	2005
3.	M.Phil. Chemistry	A. P. S. University, Rewa (M.P.)	80.60%	2006
4.	Ph.D. Chemistry	A. P. S. University, Rewa (M.P.)	-	2016

11.		**M. Phil. Details**
Name of Guide		Prof. R. N. Patel
Title of Thesis	:	"Air Pollution Caused by lime Kilns"
M. Phil. Notification date	:	July 2006
University	:	A. P. S. University, Rewa (M.P.)

12.		**Ph. D. Details**
Name of Guide		Prof. R. N. Patel
Title of Thesis	:	"Synthesis Structural and Spectroscopic Characterization of some new copper(II) and Nickel(II) complexes"
Registration No.	:	206/2011
Ph.D. Notification date	:	Aug. 2016
University	:	A. P. S. University, Rewa (M.P.)

Teaching Experience

1. **Present status**: Guest Faculty/ Assistant Professor (Savinda) for UG and PG and M. Phil. in Department of Chemistry, A.P.S. University Rewa (M.P.) from Nov. 2016 to till date.
2. Guest Faculty for UG and PG in Department of Chemistry, Govt. Vivekanand P.G. College, Maihar, Satna (M.P.) from Oct. 2006 to Jan. 2007.
3. Assistant Professor (Savinda) for UG & PG in department of chemistry, Govt. Vivekanand P.G. College, Manendragarh, Korea(C.G.) from 24th Sep.2007 to 30 April 2010.
4. Guest Faculty for UG in Department of Chemistry, Govt. College Birsinghpur Pali, Umariya (M.P.) from Oct. 2010 to Aug. 2011.
5. Project Fellow and Junior Research Fellow for Research Project in Department of Chemistry, A.P.S. University Rewa (M.P.) from Aug. 2011 to July2014.
6. Guest Faculty for UG and PG in Department of Chemistry, Govt. Model Science College Rewa (M.P.) from Oct. 2014 to Nov. 2016.

Research Experiences

Thirteen years research experience in field of Inorganic Chemistry and biological system with special concern to weak interaction and MOF.

Area of Specializations: Co-ordination Chemistry

Supervisor/Co-Supervisor (UG/PG Students)

(1) Synthesis and characterization of Schiff Bases.
Department of Chemistry, A.P.S. University, Rewa (M.P).

(2) Structural Determination of Chlorophyll.
Department of Chemistry, A.P.S. University, Rewa (M.P).

Extra-curricular Activities:

(1) Convocation program committee member of A. P. S. University, Rewa (M.P.).
(2) Member of decoding cell of A. P. S. University, Rewa (M.P.).
(3) Invigilation for State and Central government competition examinations.

Practical Skill:

- Preparation of different Schiff bases.
- Preparation of Transition metal complexes.
- Chromatographic Analysis (Paper).
- Determinations of hardness in water samples.
- Separation and identification of organic compounds

Instrument Handled:

- **UV–Vis spectroscopy:** Shimadzu UV–Vis recording Spectrophotometer UV-1601.
- **Cyclic voltammetry:** BAS-100 Epsilon Electrochemical Analyzer.

Computer Knowledge:

- MS Office package
- Internet Awareness
- Application of computer in Chemistry
- Gaussian 0.9

Paper delivered/attended/presented in Conferences/Seminars

S. No.	Type of Participation	Title of Paper	Status
1.	Oral Presentation	Varying structural motifs, unusual X-band electron paramagnetic spectra, DFT studies and superoxide dismutase enzymatic activity of copper(II) complexes with N'- [(E)-phenyl(pyridin-2-yl)methylidene]benzohydrazide 2018	National
2.	Oral Presentation	Crystal structures, electrochemistry and DFT studies of nickel(II) complexes of NNO donors Schiff-base: formation of Supramolecular architectures by H-bonding interactions 2016	International
3.	Oral Presentation	Synthesis, characterization, DFT studies and antioxidant enzymatic activity of copper(II) mono, bi and polynuclear complexes with *N*'-[(*E*)-phenyl(pyridin-2-yl)methylidene]benzohydrazide 2016	National
4.	Poster Presentation	Synthesis, crystal structure and DFT calculations and antioxidant superoxide dismutase activity effects of two new (sulphato/succinato) bridged copper(II) complexes with *N*'-[(*E*)-pyridin-2-ylmethylidene]benzohydrazide 2018	National
5.	Oral Presentation	Copper(II) and nickel(II) complexes with N'-[(Z)-phenyl(pyridin-2-yl)methylidene]acetohydrazide:Synthesis, crystal structures, DFT calculations and antioxidant effects 2015	National
6.	Oral Presentation	Synthesis crystal structure and theoretical study of octahedral nickel(II) and copper(II) complexes 2015	National
7.	Oral Presentation	Synthesis crystal structure and theoretical study of octahedral nickel(II) complexes	National
8.	Oral Presentation	Synthesis, characterization and biological activities of copper(II) complex of 2,9-dimethyl, 1,10-phenanthroline 2012	National
9.	Participation	X-ray structure determination 2016	National
10.	Participation	National Seminar on Expanding Horizons in Chemical sciences 2012	National
11.	Participation	Introduction to Ab initio Calculations 2012	National
12.	Participation	Advanced NMR Spectroscopy School 2013	National
13.	Participation	Carrier Avsar Mela 2016	College Level
14.	Participation	DST Inspire Science Camp 2017	National
15.	Participation	National Science Day 2017	National
16.	Participation	DST Inspire Science Camp 2019	National

17.	Participation	Work shop on Mapping of Science and Technology Needs of Madhya Pradesh 2018	National
18.	Participation	Social Awareness and General Information based Quiz on COVID-19 2020	National
19.	Participation	Online E-Quiz 2020	National
20.	Participation	Quiz Based on Covid -19 2020	
21.	Participation	Independence day special Quiz 2022	National
22.	Participation	UGC-Approved Short-Term Professional Development Programme 2022	National
23.	Participation	National Intellectual Property Awareness Mission on February 10, 2022	National

LIST OF PUBLICATIONS

S. No.	Full reference of Research Papers	ISSN No.	Impact Factor
1.	A dual approach experimental and theoretical studies of nickel(II) complex with hydrazone based ligand **Yogendra Singh**, R.N. Patel, Rita Singh, Raymond J. Butcher, **2023** Communicated.	-	-
2.	Copper(II) complexes with flexible hydrazone2-hydroxy benzoic acid(phenyl-pyridine-2ylmethylene)-hydrazide: Biomimetic synthesis, Hirsfield surface analysis, quantum chemical calculations and biological Activity **Yogendra Singh**, R.N. Patel, S. K. Patel, R. N. Jadeja, A. Kumar Patel, N. Patel, Hetal Roy, Raymond J. Butcher, Miguel Cortijo Montes, Santiago herrero Dominguez, **2023** Communicated.	-	-
3.	Non-covalent interactions governing the supramolecular assembly of copper(II) complexes with hydrazone-type ligand: Experimental and quantum chemical study **Yogendra Singh**, R.N. Patel, S. K. Patel, R. N. Jadeja, A. Kumar Patel, N. Patel, Hetal Roy, P. Kumar, Raymond J. Butcher, Jerry P. Jasinski, Miguel Cortijo Montes,Santiago herrero dominguez, **Polyhedron**, **2021.**	**0277- 5387**	**3.05**
4.	Supramolecular assemblies of new pseudohalide end-to-end bridged copper(II) complex and molecular structural variety of penta and hexa-coordinted metal(II) complexes with hydrazido-based ligand **Yogendra Singh**, R.N. Patel, S.K. Patel, R.N. Jadeja, A.K. Patel, N. Patel, H. Roy, P. Bhagriya, R. Singh, R.J. Butcher, J.P. Jasinski, S. Herrerog, M. Cortijog, **Inorg. Chim. Acta**, 503, 119371, **2020.**	**0020- 1693**	**2.43**
5.	Experimental and quantum computational study of two new bridged copper(II) coordination complexes as possible models for antioxidant superoxide dismutase: Molecular structures, X-band electron paramagnetic spectra and cryogenic magnetic properties	**0277- 5387**	**2.54**

	Yogendra Singh, Ram N. Patel , Satish Kumar Patel , Abhay Kumar Patel , Neetu Patel , Rita Singh , R.J. Butcher , Jerry P. Jasinski , A. Gutierrez , **Polyhedron,** 171 , 155- 171, **2019.**		
6.	Three new tetranuclear phenoxybridged metal(II) complexes: Synthesis, structural variation, cryomagnetic properties, DFT study and antiprolifirative properties S.K. Patel, R.N. Patel, **Y. Singh** , Y.P. Singh , D. Kumhar , R.N. Jadeja , H. Roy , A.K. Patel , N. Patel , N. Patel , A. Banerjee , D. Choquesillo-Lazarte , A. Gutierrez , **Polyhedron,** 161, 198–212, **2019.**	**0277- 5387**	**3.05**
7.	Varying structural motifs, unusual X-band electron paramagnetic spectra, DFT studies and superoxide dismutase enzymatic activity of copper(II) complexes with N'- [(E)-phenyl(pyridin-2-yl)methylidene]benzohydrazide R. N. Patel, **Y. Singh**, Y. P. Singh, A. K. Patel, N. Patel, R. Singh, R. J. Butcher, J. P. Jasinski,, E. Colacio , M. A. Palacios, **New Journal of Chemistry,** 42 , 3112-3136, **2018.**	**1144- 0546**	**3.59**
8.	Crystal structure, configurational and DFT study of nickel(II) complexes with N2O-donor type Schiff base ligand Yogendra Pratap Singh, Ram N Patel and **Yogendra Singh**, **Indian Journal of Chemistry,** 57 , 44-51, **2018.**	**0975- 0975**	**0.49**
9.	Synthesis, Characterization and catalytic activity of Vanadium(IV) complexes with L- histadine and imizazole /1,10 -pehnonthrpline as insulin mimetic agents R. N. Patel, S. Rather, Y. P. Singh, **Y. Singh**, A. K. Patel, N. Patel, S.K. Patel and D. Kumhar,**Vindhya Bharti,** 16 , 65-75, **2018.**	**0976- 9968**	**0.00**
10.	Synthesis, spectral, DFT calculations and biological activity studies of vanadyl complexes with L-aspartic acid and imidazoles/1,10-phenanthroline as coligands R. N. Patel, K. Maurya, Y. P. Singh, **Y. Singh**, S. Rather, A. Kamal and I. P. Tripathi, **Journal of the Indian Chemical Society,** 94 , 347-362, **2017.**	**0019- 4522**	**0.16**
11.	Unprecedented tetranuclear complexes with "weighing balance shaped" topology: single crystal structures, unusual EPR spectra, magnetic properties and antioxidant activity **Y. Singh**, R. N. Patel, Y. P. Singh, A. K. Patel, N. Patel, R. Singh, R. J. Butcher, J. P. Jasinski,, E. Colacio , M. A. Palacios, **Dalton Transactions,** 46, 11860–875, **2017.**	**1477- 9226**	**4.39**
12.	Classical hydrogen bonding and stacking of chelate rings in new copper(II) complexes Y. P. Singh, R. N. Patel, **Y. Singh**, D. Choquesillo-Lazarte and R. J. Butcher, **Dalton Transactions,** 46 , 2803– 2820, **2017.**	**1477- 9226**	**4.39**
13.	Syntheses, crystal structures, spectral and DFT studies of copper(II) and nickel(II) complexes with N'-(pyridine-2-ylmethylene) acetohydrazide R. N. Patel, Y. P. Singh, **Y. Singh**, R. J. Butcher, M. Zeller, R. K. B. Singh and O. U-wang, **Journal of Molecular Structure,**	**0022- 2860**	**3.19**

	1136 , 157-172, **2017.**		
14.	New di-μ-oxidovanadium(V) complexes with NNO donor Schiff bases: Synthesis, crystal structures and electrochemical studies R.N. Patel, Y. P. Singh , **Y. Singh**, R. J. Butcher, J. P. Jasinski, **Polyhedron,** 133, 102–109, **2017.**	**0277- 5387**	**3.05**
15.	Syntheses, single crystal structures, DFT and antioxidant superoxide dismutase studies of some new mono-/binuclear copper(II)complexes R. N. Patel, Y. P. Singh, **Y. Singh**, R. J. Butcher, J.P Jasinski, **Polyhedron,** 129, 164–181, **2017.**	**0277- 5387**	**3.05**
16.	Structure and antioxidant superoxide dismutase activity of copper(II) hydrazone complexes Y. P. Singh, R. N. Patel, **Y. Singh**, R. J. Butcher, P. K. Vishakarma and R.K.B. Singh, **Polyhedron**, 122, 1-15, **2017.**	**0277- 5387**	**3.05**
17.	Unprecedented copper(II) mediated in situ formation of gem-diol binuclear complexes: a combined experimental and computational study R.N. Patel, Y. P. Singh, **Y. Singh**, R. J. Butcher and M. Zeller, **RSC Advances,** 6, 107379– 98, **2016.**	**2046- 2069**	**3.04**
18.	Copper(II) and nickel(II) complexes with N'-[(Z)-phenyl(pyridin-2-yl) methylidene]acetohydrazide: Synthesis, crystal structures, DFT calculations and antioxidant effects R. N. Patel, **Y. Singh**, Y. P. Singh, R. J. Butcher, A. Kamal, I.P. Tripathi, **Polyhedron,** 117, 20-34, **2016.**	**0277- 5387**	**3.05**
19.	Synthesis, crystal structure, DFT computation and bioactivity measurements of copper(II) polypyridyl complexes R.N. Patel, Y.P. Singh, **Y. Singh**, R.J. Butcher, **Polyhedron,** 104, 116– 126, **2016.**	**0277- 5387**	**3.05**
20.	Synthesis, crystal structure, DFT calculations and superoxide dismutase activity of copper(II) complex with pyridine-2-carboxylic acid R.N. Patel, Y.P. Singh, **Y. Singh**, R.J. Butcher, **Journal of the Indian Chemical Society,** 93, 469- 480, **2016.**	**0019- 4522**	**0.16**
21.	Synthesis, crystal structure and DFT calculations of octahedral nickel(II)complexes derived from *N*'-[(*E*)-phenyl(pyridin-2-yl)methylidene]benzohydrazide R.N. Patel, **Y. Singh**, Y.P. Singh, R.J. Butcher, **Journal of Coordination Chemistry,** 69, 2377- 2390, **2016.**	**1029- 0389**	**1.68**
22.	Synthesis, molecular structure and TD-DFT studies on N'-(pyridine-2- ylmethylene)acetohydrazide nickel(II) complexes R.N. Patel, Y.P. Singh, **Y. Singh**, R.J. Butcher, **Indian Journal of Chemistry,** 54, 1459- 1465, **2015.**	**0975- 0975**	**0.49**
23.	Synthesis, crystal structure, electrochemical and bioactivities of pyridine-2- carboxylato bridged copper(II) complexes	**0277- 5387**	**3.05**

	Ram N. Patel, Vishnu P. Sondhiya, Krishna K. Shukla, Dinesh K. Patel and **Yogendra Singh**, **Polyhedron,** 50, 139- 145, **2013.**		
24.	Synthesis, crystal structure and superoxide dismutase activity of two new bis(μ-acetato/μ-nitrato) bridged copper(II) complexes with N-[phenyl(pyridin-2-yl)methylidene]benzohydrazone R. N. Patel, Dinesh K. Patel, Vishnu P. Sondhiya, Krishna K. Shukla, **Yogendra Singh** and A. Kumar, **Inorganica Chimica Acta,** 405, 209-217, **2013.**	**0020- 1693**	**2.54**
25.	Carboxylate-bridged copper(II) complexes: synthesis, crystal structures, and superoxide dismutase ctivity R. N. Patel, Dinesh K. Patel, Krishna K. Shukla, and **Yogendra Singh**, **Journal of Coordination Chemistry**, 66, 4131- 4143, **2013.**	**1029- 0389**	**1.68**
26.	Copper(II) promoted hydrolysis of 2,4,6-tris(2-pyridyl)-1,3,5- triazine: Synthesis, characterization and biological activities of the hydrolytic products R. N. Patel, Vishnu P. Sondhiya, Dheerendra K. Patel, Krishna K. Shukla, Dinesh K. Patel, and **Yogendra Singh**, **Indian Journal of Chemistry,** 52, 717- 723, **2013.**	**0975- 0975**	**0.49**
27.	Syntheses, characterization and bioactivities of new copper(II) complexes of N- [(1E)-1H-pyrrol-2-ylmethylidene]pyridine-3-carbohydrazone Ram N. Patel, Vishnu P. Sondhiya, K. K. Shukla, Dinesh K. Patel, **Y. Singh** and R. Pandey, **Journal of the Indian Chemical Society,** 89, 1-8, **2012.**	**0019- 4522**	**0.16**
28.	Synthesis, characterization and biological activities of copper (II) complex of 2, 9-dimethyl-1, 10- phenanthroline Vishnu P. Sondhiya, Ram N. Patel, K. K. Shukla, Dinesh K. Patel and **Y. Singh**, **International Journal of Medicine and Pharmaceutical Sciences (IJPMPS),** 2, 10-18, **2012.**	**2250- 0049**	**5.01**
29.	Synthesis, characterization, andbiological activity of nickel(II) complexes with a tridentate Schiff base derived from heterocyclic aldehyde R.N. Patel, Anurag Singh, K.K. Shukla, Dinesh K. Patel, V.P. Sondhiya, **Y. Singh** and R. Pandey , **Journal of Coordination Chemistry,** 65, 795–812, **2012.**	**1029-0389**	**1.68**
30.	Design, synthesis, and characterization of a series of biologically active copper(II) Schiff base coordination compounds R.N. Patel, Anurag Singh, K.K. Shukla, Dinesh K. Patel, V.P. Sondhiya, **Y. Singh** and R. Pandey, **Journal of Coordination Chemistry,** 65, 1381– 1397, **2012.**	**1029- 0389**	**1.68**
31.	Synthesis, crystal structure, spectroscopic and superoxide dismutase activity of copper(II) and nickel(II) complex of N '-[phenyl(pyridin- 2- yl)methylidene]benzohydrazone R. N. Patel, Vishnu P. Sondhiya, Dinesh K. Patel, K. K. Shukla	**0975- 0975**	**0.49**

	and **Y. Singh, Indian Journal of Chemistry,** 51, 1695- 1700, **2012.**		
32.	Synthesis, structure and biological activities of mixed ligand copper(II) and nickel(II) complexes of N'-(1E)-[(5- bromo-2-hydroxyphenyl)methylidene]benzoylhydrazone R. N. Patel, Sampat Rawat, M. Choudhary,Vishnu P. Sondhiya, Dheerendra K. Patel, K. K. Shukla, Dinesh K. Patel, **Y. Singh** and R. Pandey, **Inorganica Chimica Acta,** 392, 283-391, **2012.**	**0020- 1693**	**2.54**

13. References:

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Declaration:
I hereby declare that the above-mentioned information's are true to best of my knowledge and belief.

Date:

Place: Rewa, India (Yogendra Singh)