

Dr. MEHUL H. SADHU

Asst. Professor in Chemistry

Government Science College Idar

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Career Objective

To obtain a creative and challenging position in an organization that gives me an opportunity for self-improvement and leadership, while contributing to the symbolic growth of the organization with my technical, innovative and logical skills.

To excel in my field through hard work, research, skills and perseverance

To serve my parents, organization, state and my country with the best of my abilities

Educational Qualification

- ❖ **Ph.D. (Chemistry)**, The M. S. University of Baroda, Vadodara - 2018.
Thesis entitled ***“STUDIES ON THE CHEMISTRY OF TRANSITION METAL COMPLEXES OF SOME HETEROCYCLE BASED LIGANDS.”***
Research Supervisor: Dr. Sujit Baran Kumar.
- ❖ **CSIR-NET(JRF) (2015):** Qualified test for junior research fellowship and eligibility for lectureship.
- ❖ **GSET (2015):** Qualified state eligibility test for assistant professor.
- ❖ **GATE (2015):** Qualified IIT(Indian institute of technology Kanpur).
- ❖ **GATE (2014):** Qualified IIT(Indian institute of technology Kharagpur).
- ❖ **M. Sc.(Organic Chemistry)**, 60.33% (Ind Class), Guj. Uni., Ahmedabad - 2009.
- ❖ **B.Sc. (Chemistry)**, 65.71% (Ist Class), Guj. Uni., Ahmedabad - 2007.

Professional position

1. Teaching experience:

(i) Designation : Assistant Professor

- Place : Government Science College Idar (20/07/19 to till
Date)
- : Having Knowledge of Chemistry Theory and practical to teach graduate students.
- (ii) Designation :Teaching Assistant
- Place :Department of Chemistry, Faculty of Science,
The M.S. University of Baroda, Vadodara.
- Responsibilities :Conducting Chemistry laboratory duty at UG level.
Exam Supervision at UG and PG level
- (iii) Designation : Assistant Professor
- Place :Department of Chemistry, Faculty of Science,
Parul University, Vadodara.
- Responsibilities : Deliver lectures on organic chemistry.
Conducting Chemistry laboratory duty at UG and PG level
Exam Supervision at UG and PG level

2. Research Experience

UGC- Major research project (May-2011)):

Designation : Junior Research Fellow

Title of the project : “*Studies on 3d-metal Complexes with Pyrazole based Tripodal Ligand: Synthesis, Structure, Redox properties and Bioactivities*”

Principal –Investigator: Dr. Sujit Baran Kumar.

Department of Chemistry, Faculty of Science, The M. S. University of Baroda, Vadodara

3.Industrial Experience

1. QC-officer (6 months)

Company Name : **SUN Pharma.** Halol, Dist-Panchmahal, Gujarat.

Job Profile : As a QC Chemist.

Instruments Handling : Karl-Fisher, Autotitrator, Wet Chemical analysis, preparation of standard solutions, etc.

2. Research associate (ADL)

Company Name : Zydus Cadila, Tal-Padara, Dist-Vadodara, Gujarat.

Job Profile : Chemist- ADL(R&D).

Instruments Handling : Wet Chemical analysis, HPLC (Perkin, Agilent and Shimadzu)

Working period : 08-07-2010 to 14-05-2011.

4. Instruments handling experience:

Working and handling of different instrument like IR, Auto titrate, HPLC, UV-Visible Spectrophotometer, X-Ray Crystallography etc.

Achievements

1. UGC-BSR Fellowship

By UGC, New Delhi at Department of Chemistry, The M S University of Baroda.

2. Junior Research Fellowship (May 2011)

By UGC major research project, The M S University of Baroda.

3. UGC-RGNF Fellowship (2014)

By UGC, New Delhi at Department of Chemistry, The M S University of Baroda.

4. CSIR-NET (JRF) (2015)

By UGC, New Delhi.

Personal details

Father's Name : Sadhu HarshadKumar Santilal

Mother's Name: Sadhu Laxmiben HarshadKumar

Age : 31 Yrs.

Birth date : 29th Oct, 1986

Nationality : Indian

List of Publications

(1) *“Mixed ligand complexes of Copper(II), Cobalt(II), Nickel(II) and Zinc(II) with thiocyanate and pyrazole based tetradentate ligand: Syntheses, characterizations and structures”*

Mehul H. Sadhu, Ankita Solanki,, Sujit Baran Kumar.

Polyhedron, 100 (2015) 206-214.

(2) *“Syntheses, characterization and structure of selenocyanate complexes of nickel(II), cobalt(II) and zinc(II) with a tetradentate pyrazole based ligand”*

Mehul H. Sadhu, Sujit Baran Kumar.

Transition Metal Chemistry(2015)

(3) “*Synthesis, Characterization and Structures of Copper(II), Nickel(II), Cobalt(II) and Cadmium(II) complexes involving N₄-donor ligand and cyanate as coligand : Formation of 1D and 2D crystallographic networks by short intermolecular interactions*”

Mehul H. Sadhu, Sujit B. Kumar.

Polyhedron, Volume 123, 17 February 2017, Pages 419-429

(4) “*Binuclear copper(II) complexes with N₃S-coordinate tripodal ligand and mixed azide-carboxylate bridges: Synthesis, crystal structures and magnetic properties*”

Mehul H. Sadhu, Corrine Mathoniere, Yogesh P. Patil, Sujit B. Kumar

Polyhedron, Volume 122, 28 January 2017, Pages 210-218

(5) “*Direct C–N bond formation in an in situ ligand transformation reaction and formation of polymeric 1D cadmium(II) complexes with end-to-end bridging thiocyanate or selenocyanate ions: Synthesis, structures and theoretical studies*”

Mehul H. Sadhu, Ankita Solanki, T. Kundu, Vinayak Hingu, B. Ganguly, Sujit B. Kumar

Polyhedron, Volume 133, 5 September 2017, Pages 8-15

(6) “*Mononuclear copper(II) and binuclear cobalt(II) complexes with halides and tetradentate nitrogen coordinate ligand: Synthesis, structures and bioactivities*”

Mehul H. Sadhu, Sujit Baran Kumar, Jaswinder Kaur, Saini, Sejal S. Purani, Tanvi R. Khanna.

Inorg. Chim. Acta, Volume 466 September 2017, 219-227.

(7) “*Synthesis, characterization and structures of copper(II) and cobalt(II) complexes involving N₃S-coordinated tetradentate ligand and azide/ thiocyanate/ nitrite ion*”

Mehul H. Sadhu, Sujit Baran Kumar

Journal of Molecular Structure 1164 (2018) 239-47.

(8) “*Zinc(II) and Cadmium(II) complexes with N₄-coordinate pyrazole based ligand: Syntheses, characterizations and structures*”

Ankita Solanki, **Mehul H. Sadhu, Sujit Baran Kumar and Partho Mitra.**

Journal of Molecular Structure, 1076 (2014) 475-482.

(9) “*Ternary complexes of Copper(II) and Cobalt(II) Carboxylate with Pyrazole based ligand: Syntheses, Characterization, Structures and Bioactivities*”

Ankita Solanki, **Mehul H. Sadhu, Shweta Patel, Ranjitsinh Devkar and Sujit Baran Kumar**

(Journal of Molecular Structure 1101 (2015) 155-161).

(10) *“Ternary Complexes of Copper(II) and Cobalt(II) involving Nitrite/ Pyrazole and tetradentate N₄-coordinate ligand: Synthesis, Characterizations, Structures and Antimicrobial activity”*

Ankita Solanki, **Mehul.H. Sadhu**, Sujit Baran Kumar

Polyhedron 102 (2015) 267–275

Conferences attended:

- ❖ Participated in Western Indian Research Scholar (WIRSM-2011, September).
- ❖ Participated in National Conference on Chirality (NCC-2011, December).
- ❖ Participated in National Conference on Chemical Science in New Millennium (NCCSNM-2012, January).
- ❖ Participated in the Lecture workshop on Science of molecular material for electronic and energy applications (October, 2012).
- ❖ Participated in National Symposium on Modern Trends in Chemistry (MTS-2013, March)
- ❖ Participated in the National Workshop on Crystallography (19-25th January, 2015).
- ❖ Participated in National Conference on Recent Trends of Materials (December-NCSM-2K15)
- ❖ Participated in Chemical Science in Present Scenario (January, CSIPS-2016)
- ❖ Participated in National Seminar on Frontier Areas in Chemical Sciences (March-2016).