

CURRICULUM VITAE



PERSONAL DETAILS - Dr. RAJKUMAR BODDHULA

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Google Scholar Citations: 22
Google scholar link: [rajkumar boddhula - Google Scholar](#)

CAREER OBJECTIVE

To be associated with a progressive organization that gives scope to acquire knowledge and skills and to be part of a team that dynamically works towards the growth of the organization.

EDUCATION HISTORY

Aug 2014 – Oct 2021 **National Institute of Technology, Rourkela; CGPA: 8.54/10**
Doctor of Philosophy on “synthesis and characterization TM-MG cluster for study their potential in nanoparticle synthesis and its catalytic applications “

June 2008 – June 2010 **Andhra University, Visakhapatnam; CGPA: 7.34/10**
Master of Science in Organic Chemistry

Aug 2005 – May 2008 **Kakatiya University, Warangal; Percentage: 69.9%**
Bachelor of Science in Biology and Chemistry

June 2003 – May 2005 **Government Junior College, Telangana; Percentage: 67.2%**
Intermediate Certificate examination in Biology, Physics, and Chemistry

June 2002 – May 2003 **ZPSS High School, Telangana; Percentage: 81.1%**
Secondary School Certificate examination

WORK EXPERIENCE (Research/Teaching)

2014 – 2020	NIT Rourkela, Odisha Project Assistant. JRF, SRF and Teaching Assistant – <i>Full Time</i> <u>Responsibilities and/or achievements:</u> <ul style="list-style-type: none">Research on Organometallic Ccompounds and its Catalytic Applications
2021 – 2022	Uquifa India Pvt. Ltd., Hyderabad Assistant Manager in Chemical R&D (API)– <i>Full time</i> <u>Responsibilities and/or achievements:</u> <ul style="list-style-type: none">Develop the synthetic methodology, Group Discussion, managing the R&D team

2022 – Till Now	Sai Life Science Pvt. Ltd., Hyderabad Associate Research Scientist in Medicinal chemistry (CRO)– <i>Full time</i> <u>Responsibilities and/or achievements:</u> <ul style="list-style-type: none"> Develop the synthetic methodology, Group Discussion, managing the R&D team.
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RECOGNISED ACHIEVEMENTS

2014 Qualified **CSIR-UGC (NET-LS)**-2014.

2015 Qualified **TS-SET**-2014.

PhD Project

Title: Synthesis and Characterization of Transition Metal Main Group Cluster for their Potential in nanoparticle synthesis and catalytic applications.

Guided to M.Sc. Projects

Name	Project Title
1. Mrs. M. Kharou (2019 – 2020)	Synthesis and Characterization of transition metal chalcogenide cluster with trialkyl arsine
2. Mr. S. Kumar (2018 – 2019)	Synthesis and Characterization of Iron Dichalcogenides nanoparticle from Single Source Precursor and Study their Photocatalytic and GasSensing Applications.
3. Mrs. P. Subhasmita (2017 – 2018)	Synthesis of Organometallic Cluster and Study of its Properties.
4. Mrs. R. Dipannita (2016 – 2017)	Synthesis of metal chalcogenide nanoparticle from their Single Source precursor.

Research Interests and Skills

- Fabrication of Low cost electrode, Solar cell device materials for electrochemical study.
- Synthesis of various novel Transition Metal Main Group (TM-MG) compounds and study its structural Feature and their potential in nanoparticle synthesis and its properties study.
- Synthesis of novel chiral organometallic catalyst and study its potential in catalysis.
- Preparation of novel Transition metal chalcogenide nanomaterials which are showed excellent activity in field of electro & Photocatalysis.

Area of Proven Performance in Academic area

- Wet Chemistry & Separation Technique (TLC, Column, HPLC, LCMS etc.)
- FTIR, NMR, PXRD, TGA-DSC, DLS, UV-Vis, SEM, FESEM, TEM etc.
- Laboratory Instrumentation like UV chamber, Rotavapour, lyophilizer, Sonicator, P^H meter, Potentiometer etc.
- Excellent Written and Verbal Communications.

Computer Skills:

- Chem-draw, Biovia, Avogadro, ASIQwin, X-pert Highscore, TopSpin3.6.0, CHI6003E Electrochemical analyser, Origin, Spectrum Quanta, Image-J, Gaussian (g09w), Sci-finder, Sci-Hub.

Language Skills:

Telugu, English, Hindi

Area of Proven Performance in Industrial area

- Responsible for performing organic synthesis (mg to gram scale).
- Independently support the scientific team with instrumentation and equipment operation and maintenance.
- Able to understand & interpretation of various instruments data such as NMR, IR, Mass, HPLC, GC, LC-MS, ICP-MS etc.
- Instrument purification like Combi flash, big columns, column packing. Quickly-estimate the mobile phase for purification.
- Independently handling all types of glassware assembly arrangement, reaction reagent charging, maintaining temperature, nitrogen, etc.
- Should be able to understand the written instruction from the scientist including patents, Journals and reprints where procedures are highlighted by scientists.
- To train and support the team members.
- Meticulous Documentation & proper data management.
- To maintain the record book of the work done like purification or reaction.

CONFERENCE /WORKSHOPS

- National Seminar on **The Promise of Nano science (2009)**, Department of Chemistry, P.B. Siddhartha College of Arts and Science-Vijayawada, March 6-7, 2009, Vijayawada.
- Workshop on **How to Write and Publish Scientific Articles and Manuscripts (2018)**, Biju Patnaik Central Library, National Institute of Technology-Rourkela, March 7th 2018, Rourkela
- **Research Scholars Week (RSW-2018)**, Department of Chemistry, National Institute of Technology-Rourkela, April 21-22, 2018.
- National Conference on **Advanced Materials for Energy and Environmental Applications (AMEEA-2018)**, Department of Chemistry, National Institute of Technology-Rourkela, December 12-14, 2018, Rourkela.
- Workshop on **Functional Materials and their Applications (FMA-2019)**, Department of Chemistry, National Institute of Technology-Rourkela, January 11-12, 2019, Rourkela.
- Workshop on **Thesis and Manuscript Writing Boot Camp (2019)** National Institute of Technology-Rourkela, July 16-20, 2019, Rourkela.

- National conference on **Recent Development in Applied Science and their Biological and Industrial Relevance (RDABIR 2020)**, Department of Chemistry, Midnapore city college ,7-8, January, 2020.
- International webinar on Chemistry **Recent development in chemistry**, Department of Chemistry, Midnapore City College, 29th, September, 2020.
- Webinar on **Frontier in Organic Electronics (FOE-2020)** 29th June - 3rd July 2020, Organized by Department of Chemistry, National Institute of Technology, Rourkela.

PUBLICATIONS

1. V. Tirkey, **R. Boddhula**, S. Mishra, S. M. Mobin, S. Chatterjee. "Synthesis, structure and antibacterial activity of ferrocenyl diphosphine chelated iron-telluride cluster". **J. Organomet. Chem.**, **794** (2015) **88-95**.
2. **R. Boddhula**, A. Ghosh, C. Wolper, S. M. Mobin, S. Chatterjee "Synthesis and structure of open and closed type iron telluride-stibine cluster compound". **J. Organomet. Chem.**, 851 (2017) 22-29.
3. S. Karmakar, **R. Boddhula**, D. Behera "Electrochemical performance of heterogeneous, mesopores and non-centrosymmetric Core@ shell NiCo₂O₄@ MnO₂ nanocomposites and its MWCNT blended complex for supercapacitor applications". **J. Solid State Chem.**, 280 (2019) 121013.
4. N. Maity, A. Sahoo, **R. Boddhula**, S. Chatterjee "Fly Ash Supported Pd-Ag Bimetallic Nanoparticles Exhibiting Synergistic Catalytic Effect for the Reduction of Nitrophenol". **Dalton Trans.**, 49 (2020) 11019.
5. **R. Boddhula** and S. Chatterjee "Method for the preparation of iron-di-telluride nanoparticles using a single source precursor and the use of the product in electrocatalytic hydrogen evolution reaction". **Patent filed (202031055017)**, 2020.

REFEREES

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