

CURRICULAM VITAE

RESHMA BABU

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PROFILE

A person with confidence and positive attitude, qualitative sense to doing experiments

OBJECTIVE

Gathering knowledge rather than scoring marks and gives some contribution to the society for its betterment

ACADEMIC QUALIFICATIONS

<u>INSTITUTION / BOARD / UNIVERSITY</u>	<u>COURSE</u>	<u>YEAR</u>	<u>MARKS</u>
Indian Institute of Science Education & Research (IISER), Tirupati	Ph.D	2019-2024	9.8
School of Chemical Sciences, MG University, Kottayam ,Kerala	MSc Inorganic Chemistry	2016-2018	84.1 CGPA-8.41
St. Dominic's College, Kanjirappally MG University	BSc chemistry	2013-2016	90.24% CGPA-9.45
A.M.H.S.S , Kalaketty Board of Higher Secondary Examination Kerala	11 th , 12 th Bio-maths	2010-2012	88.08%
S.R.V.N.S.S.V.H.S.S ,Chirakkadavu Board of Public Examination	10 th	2010	93.33%

RESEARCH EXPERIENCE

- Currently pursuing Ph.D. at Indian Institute of Science Education & Research, Tirupati. Ongoing work is mainly focusing on the homogeneous catalyst development for (de)hydrogenation and hydrogen auto-transfer reactions.

- I have worked as a project student (6 months) at National Chemical Laboratory (NCL), Pune. The research was focused on the Nickel catalysed dehydrogenative coupling of primary and secondary alcohols with methyl-N-heteroaromatics.
- I have handled different analytical chemistry methods such as instrumental methods (NMR, GC, GCMS, IR, Gasometer and UV-Visible spectrophotometer), chromatography, distillation, etc.

PUBLICATIONS

1. J. Rana, R. Babu, M. Subaramanian and E. Balaraman*, Ni-catalyzed dehydrogenative coupling of primary and secondary alcohols with methyl-N-heteroaromatics, *Org. Chem. Front.*, **2018**, 5, 3250–3255.
2. V. Landge, R. Babu, V. Yadav, M. Subramanian, Virendra. G; E. Balaraman*, Iron-Catalyzed Direct Julia-type Olefination of Alcohols, *J. Org. Chem.*, **2020**, 85, 9876–9886.
3. R. Babu, M. Subaramanian, S. P. Midya and E. Balaraman*, Nickel-catalyzed Guerbet type reaction: C-alkylation of secondary alcohols *via* double (de)hydrogenation, *Org. Lett.*, **2021**, 23, 3320–3325.
4. S. P. Midya, M. Subaramanian, R. Babu, V. Yadav, and E. Balaraman*, Tandem acceptorless dehydrogenative coupling-decyanation under nickel catalysis, *J. Org. Chem.* **2021**, 86, 7552-7562.

ACADEMIC & NON-ACADEMIC PARTICIPATION

1. Three-day national colloquium on “SPECTROSCOPY: THEORY AND APPLICATIONS” Organised by SRIBS, KSCSTE, Govt. of Kerala, from 5th-7th May, 2017.
2. One day scientific writing workshop organized by ACS publications in collaboration with IIT-Tirupati on 25th October 2021.
4. Delivered a talk on Mole Day symposium, 23rd October 2021.
5. Attended seminars, institute colloquiums, scientific writing workshops, fire and safety and research ethics workshops.

ACHIEVEMENTS

- Secured first rank in MSc Inorganic chemistry
- Qualified gate 2019
- Qualified UGC- NET December 2018
- Secured KSCSTE research fellowship
- Awarded PMR fellowship-2020
- Secured academic excellence award from IISER-TIRUPATI

Area of Research

- Organometallics and sustainable catalysis
- Homogeneous catalyst development for (de)hydrogenation and hydrogen auto-transfer reactions.

PERSONAL PROFILE

Date of Birth : 20 November 1995
Age : 25
Gender : Female
Nationality : Indian
Languages known : English, Hindi,
Malayalam Name of father : O.N Babu
Name of mother : Sreedevi Babu

REFERENCES

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