

Curriculum vitae

Dr. Lina U. Jadhav

Address:

University Institute of Chemical
Technology, KBC, NMU, Jalgaon

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Objective: To be an upwardly mobile visionary of innovative excellence who would work sincerely for the development of organization and self, in pursuit of Quality Aesthetics and Perfection.

Educational Qualification:

Ph.D. (Chemistry) (January 2024)

University Institute of Chemical Technology,
KBC, NMU, Jalgaon, India.
(www.kbcnmu.ac.in)

Thesis Title: Bio-waste and functionalized bio-waste curing agents: A novel synthetic approach to Nanocomposites containing active nanostructured fillers.

Research Supervisor:

Dr. Vikas S. Patil

UGC-Assistant Professor, UICT, KBC NMU, Jalgaon.

Dr. Satyendra Mishra (Co-guide)

BSR-Faculty Fellow, UICT, KBC NMU, Jalgaon.

NET(LS) June 2014

M.Sc. (Master of Science in Organic Chemistry):

June-2011 to June-2013 First Class with Distinction (75.0%)

P.G.C.S.R. College, Jalgaon

(KBC North Maharashtra University, Jalgaon. www.kbcnmu.ac.in)

B. Sc. (Bachelor of Science in Chemistry):

June-2008 to June-2010 First Class (69.67%)

S.S.V.P.S. Science College Dhule, (KBC North Maharashtra University, Jalgaon.

www.kbcnmu.ac.in).

Practical and Technical Skills

Synthesis Skills:

- Well experienced in handling various types of organic reactions (oxidations, reductions, C-C bond forming reactions etc.) and Polymeric techniques.
- Purification of the Intermediates and final compounds using column chromatographic techniques.
- Worked on multi-step organic synthesis.

Analytical Techniques Handle:

- Knowledge of Synthesis of Polymerization Technique.
- Knowledge about Characterization Techniques in Polymerization, Physical and Mechanical Properties of Polymer.
- Interested in Processing Technique, Tastings and Quality control of Plastic.
- Interpretation of IR, NMR, Mass Spectroscopy, DSC, TGA, XRD, FE-SEM, TEM, EDS etc.
- Experience on handling of analytical Instruments such as UV, IR, and FTIR. GC-MS.

Technical skills:

- Good in documentation of records, writing research articles for publications and research proposals for funding.
- Expert in handling chemistry related software like Origin, Chem Draw, Chem Sketch, and Metronova.
- Web Tools handled: SciFinder, Reaxys, Patent search (E-spacenet), Scopus, Google Scholar, Mendeley.

Personal skills:

- Operate in an independent and self-directed manner, showing initiative to accomplish clearly defined goals.
- Knowledge of maintaining safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation
- Work in a collaborative environment.
- Develop and maintain effective relationships with colleagues.
- Understand how to acknowledge other's views, with a willingness to reflect on and critically appraise them.

Subject skills:

Familiar with retro-synthesis, organic name reactions, functional group transformations, oxidation-reduction reactions, organometallic chemistry, spectroscopic studies such as NMR, FT-IR, Mass, UV-vis and fluorescence spectroscopy

Project Handled during Ph. D. tenure

Project Title: Eugenol based pigment: Synthesis, Characterization, Antimicrobial property and Application (M.Tech, Paint Technology)

Professional Experience

- **Research Assistant** (June 2018 to Jan 2024) UICT, KBC NMU, Jalgaon.
Research supervisor: Dr. Vikas S. Patil
- **Assistant Professor [Non-grant permanent]**
P.G.C.S.T.R. College, Jalgaon.
(Sept 2014 to April 2018)

Research Publications

1. **Jadhav Lina**, Rahul Patil, Nikhil Borane, Satyendra Mishra, Ganapati D. Yadav, Dipak B. Patil, and Vikas Patil. "A Novel Synthetic Approach of Functionalised GO and CNT to Nanocomposite Containing Active Nanostructured Fillers for Classical Isocyanate Curing." *Chemistry Proceedings* 8, no. 1 (2021): 33.
2. Rahul Patil, **Lina Jadhav**, Nikhil Borane, Vikas Patil ,and Satyendra Mishra. "Nano-dispersible azo pigments from lignin: a new synthetic approach and epoxy-polyamine composite coating." *Pigment & Resin Technology* (2022).
3. **Jadhav, L.**, Patil, R., Borane, N., Mishra, S., Patil, S., & Patil, V. Synthesis of Polyurea Nanocomposite from Industrial Waste Lignin: Classical Curing of Isocyanate by Lignin-Polyamine, *Journal of the Indian Chemical Society* (2023): 100932.
4. Patil, R., **Jadhav, L.**, Borane, N., Mishra, S., Patil, S. V., & Patil, V. (2023). Industrial waste lignosulphonate to functionalized azo pigments: an application to epoxy-polyamine composite coating. *Biomass Conversion and Biorefinery*, 1-15.
5. **Jadhav, L.**, Patil, R., Borane, N., Mishra, S., Patil, S., & Patil, V. Classical Curing of Epoxy Modified Lignin with Polyamine for New Epoxy-Polyimine Composite, *MaterialsToday Proceedings, Elsevier(2024)*
6. Classical Curing of Aminated Lignin and Bio-based Epoxidized Oleic Acid Resin to generate new epoxy-polyimine composite. [**Submitted to Journal of Chemical Sciences Submission ID: JCSC-D-24-00206**].
7. The multiple facets of lignin a versatile biomaterial and building block for sustainable chemistry-A Mini Review [**International Wood Products Journal : Submission Id-235283625**] (Under review)

Indian Patent Published

1. **Lina Jadhav**, Rahul Patil, Amol Choudhary, Vikas Patil* “Lignin Derived Reactive Dyes Pigments for Coating Applications” (Application No.202321069954 A), Dated 24/11/2023.

Personnel Details

- Citizenship : Indian
- Date of birth : 20/02/1991
- Sex : Female
- Marital Status : Married
- Permanent Address : At-Post Ner, Tal-Dist. -Dhule, Maharashtra Pin- 424 303
- Language skills : English, Marathi, Hindi

References:

Prof.(Dr.) Satyendra Mishra

BSR-Faculty Fellow, UICT,

KBC NMU, Jalgaon,

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Dr. Vikas S. Patil

UGC-Assistant Professor

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I, hereby confirm that the above information is true through the best of my knowledge.

Place: Malegaon



Ms. Lina Umakant Jadhav