

List of paper publications and presented in conferences

Review Papers

1. Madhu, C., Patel, B. (2024). pH-Sensitive Polymers with their Important Applications (A Review). *Current Physical Chemistry*, (pISSN 1877-9468, eISSN 1877-9476), **14**, 2
(UGC-CARE listed) <https://doi.org/10.2174/0118779468296209240427102827>

Research Papers

2. Madhu, C., Patel, B. (2024). Designing pH-responsive SAP-coated menstrual pads and comparing them to marketable products through quality analysis. *Bulletin of the National Research Centre*, (eISSN 2522-8307), **48**, 41.
<https://doi.org/10.1186/s42269-024-01196-0>
3. Madhu, C., & Patel, B. (2024). Preparation of microencapsulated phase change materials for use in feminine hygiene napkins based on pH response. *Essential Chem*, (eISSN 2837-8083) (1), 1–9.
<https://doi.org/10.1080/28378083.2024.2357332>
4. Madhu, C., Patel, B. (2024). Enhancing the efficacy of feminine hygiene sanitary napkins by developing a super absorbent polymer based on methyl methacrylate and methacrylic acid. *Journal of Applied Polymer Science*, (pISSN 0021-8995, eISSN 1097-4628), 1–7.
<https://doi.org/10.1002/app.56038> (Scopus Indexed)
5. Madhu, C., & Patel, B. (2024). Formulation and characterization of super absorbent copolymer AA, ACN-grafted sodium acrylate for feminine napkin. *The Journal of The Textile Institute*, (pISSN 0040-5000, eISSN 1754-2340), 1–8. (Scopus Indexed)
<https://doi.org/10.1080/00405000.2024.2406608>

Research Papers Presented in Conferences

6. Synthesis and Evaluation of AA, ACN-Based SAP and its Application for Hygiene Textile; “INDIA@100; building ‘Atmanirbhar’ Bharat from Farm to Fashion to Future, NIFT, Gandhinagar; 24th February, 2023. (**International Conference**)
ISBN: 978-81-958086-1-8 (on line) (Book of Proceedings)
7. Application of Microencapsulation in Textile Wet Processing: A Review; Condensed Matter Physics and Material Science (CMPMS-2023); 04th March, 2023. Poster Presentation. (**National conference**)
8. Reducing the Effluent Load by Coating Hygiene Textile with Microencapsulated AA, ACN Based SAP; Advances in Water Treatment and Management (ICAWTM-23); 12th March, 2023. (**International Conference**) Honored with best presentation award in one of the panels. **ISBN: 978-93-5813-101-7** (Book of Abstracts)
9. Synthesis and Evaluation of MAA, ACR, AN-Based SAP for Application for Hygiene Textile; (Recent Advances in Applied Sciences and Engineering (RAISE 2023); 13th April, 2023. (**International Conference**) **ISBN: 978-81-962938-2-6** (Proceedings of International Conference RAISE 2023: Vol. II Chemical Engineering, Applied Chemistry, Textile Chemistry)