

List of the Research Publications

Research papers:

1. **Ganvit VM**, Sharma RK. Recent developments of *Madhuca indica* (Mahua) oil-based polymers: a mini review. *Polymers from Renewable Resources*. **2022**, 13 :55-70.
<https://doi.org/10.1177/20412479221109909>
2. **Ganvit VM**, Patel V, Patel M, Dharva A, Sharma RK. Synthesis, physicochemical and thermal properties of urethane-modified polyesteramide films using mahua and castor oil as sustainable resources. *Journal of Applied Polymer Science*. **2024**, 141 :e54872. <https://doi.org/10.1002/app.54872>
3. **Ganvit VM**, Bhandari PD, Kunjadiya A, Mansuri J, Bambhaniya SB, Mandot AA, Sharma RK. Waterborne polyurethane polymer dispersions using Castor oil and curcumin as bioresources: Synthesis, characterization, and antibacterial textile applications. *Journal of Applied Polymer Science*. **2024**: e55509.
<https://doi.org/10.1002/app.55509>
4. Bambhaniya SB, Mandot AA, **Ganvit VM**, Sharma RK. Biomass derived coating material against petrochemical based polymer for architectural fabric. *Man-Made Textile in India*. **2023**, 8: 274-279.
5. **Ganvit VM**, Matang M, Patel MM, Dalvadi P, Kunjadiya A Sharma RK Ccurcumin-incorporated castor oil-based polyurethane/silica nanoparticle composite films with antibacterial activity. (*Under Revision in Journal of the Taiwan Institute of Chemical Engineers*)
6. **Ganvit VM**, and Sharma RK. Synthesis and characterization of castor oil-based waterborne polyurethane-urea: Influence of concentration of chain extender. (*Manuscript under Preparation*)

Patents:

1. Bambhaniya SB, Mandot AA, **Ganvit VM**, Sharma RK. A coated fabric and method of making same, 2024. (Indian patent No. 202321003004, Published on March 15, 2024)
2. **Ganvit VM**, Sharma RK. Antibacterial polyurethane films using curcumin as a antibacterial agent, nanosilica as a filler and castor oil as a polyol, 2024. (Indian patent No.202321038913, Published on September 13, 2024)