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REVIEWER'S REPORT

Manuscript No.: IJAR-55097

Title: Sulfonic Grafting on Recycled Cellulosic Fabrics: Structural Characterization and Esterification Efficiency.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity	Excellent			
Significance	Excellent			

Reviewer Name: Dr. Sumathi

Detailed Reviewer's Report

- 1. Sulfonated cellulose is a modified cellulose material with negatively charged sulfonic groups attached making it water soluble and highly functional for applications like water treatment, ion exchange membranes and sustainable energy devices.**
- 2. These modifications often done by oxidizing cellulose and then reacting with sulfite compounds, introduce charge and improve properties like dispersibility, strength, and ion conductivity, transforming it from raw cellulose into a versatile eco friendly material.**
- 3. Heterogeneous catalysis is a chemical process where the catalyst is in a different phase. It works through a cycle of reactants adsorbing onto the catalysts surface, reacting and then desorbing as products, which is crucial for large scale industrial processes like making fuels, plastics and chemicals.**
- 4. Green chemistry also known as sustainable chemistry, aims to reduce or prevent pollution by improving the efficiency and design of chemical manufacturing use, and disposal.**

REVIEWER'S REPORT

5. It focuses on eliminating or reducing hazardous substances and developing safer chemicals and greener solvents.
6. Esterification is a chemical reaction where a carboxylic acid and an alcohol combine typically with an acid catalyst, to form an ester and water a process crucial in making fragrances, flavors, plastics and even aspirin.
7. Key words excellent to understand research topic.
8. Result part is good with pictures.
9. Significant points are given in research paper.
10. Summary points should be included.
11. After a small corrections good to publish in your journal.