

**Investigation of Biomass Derived Functional Carbon Electrodes
from leaves of *Spathodea campanulata* and *Tecoma capensis*
for Supercapacitor applications**

By

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80_Recommendations

- Attempts to be carried out to evaluate the electrochemical performance of the prepared carbon materials with different binder ratio and doping agent ratio
- Attempts to be made to consider different electrolytes and different temperature conditions to synthesize carbon with an aim to determine their applicability in energy storage systems.
- Attempts to be made to enhance the electrochemical stability window using ionic liquids etc.
- Cyclic stability of the prepared carbon to be made with more than 10,000 cycles to evaluate the stability of the materials
- Additionally, it is important to develop real-time supercapacitor devices using the synthesized carbon materials to assess their effectiveness in energy storage applications.