# S. Bagavathy

Research guide: Dr. D. Thangaraju

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**Department:** Physics

## **Education Details (UG & PG)**

- M.Sc. Physics PSG College of Arts and Science CGPA 9.2
- B.Sc. Physics Holy Cross College CGPA 9.4

# Tentative title of the research work

Performance and Fabrication of single-phase metal molybdates and rare earth gallium garnet/non-garnet nanostructures towards supercapacitor device application.

#### **Brief abstract**

The modern energy crisis has recently prompted the development of new-generation energy storage device called supercapacitors. The low-temperature cost-effective methods are utilized in the synthesis of metal molybdates and rare earth gallium garnet/non-garnet nanostructures. The synthesized materials are employed as the effective electrode materials for supercapacitor applications.

## **Publications**

- Enhanced asymmetric supercapacitor device performance of graphene templated β-Bi2-xEuxMo2O9 nano self-assembly – Journal of Electroanalytical Chemistry
- Rare-earth gallium garnet ( $RE_3Ga_5O_{12}$ , RE = Eu, Gd, Dy, Er, and Yb) self-assembled nanostructure based battery type electrodes for efficient asymmetric supercapacitor applications – Journal of Energy Storage

