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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 9.4
- B.Sc. Physics - PSG College of Arts and Science – CGPA 9.2



Tentative title of the research work

Design and Development of self-assembled nano rare earth gallium oxides and metal molybdates for energy and environmental applications.

Brief abstract

The research work relies on synthesizing self-assembled nano rare earth gallium oxides and metal molybdates through low cost methods. The performance of the synthesized materials were investigated by employing them as an electrode materials for supercapacitors and efficient photocatalysts for wastewater treatment.

Publications

- Enhanced asymmetric supercapacitor device performance of graphene templated β -Bi_{2-x}Eu_xMo₂O₉ nano self-assembly – Journal of Electroanalytical Chemistry
- Effect of neodymium (Nd) doping on the photocatalytic organic dye degradation performance of sol-gel synthesized CoFe₂O₄ self-assembled microstructures – Physica B: Condensed Matter
- Size and surface engineered BiVO₄ catalytic smooth spheres for efficient electrochemical detection of