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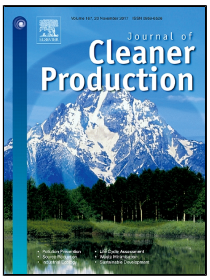


Green and facial combustion synthesis of $Sr_3Al_2O_6$ nanostructures; a potential electrochemical hydrogen storage material

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- $Sr_3Al_2O_6$ nanoparticles were fabricated for the first time *via* a simple combustion method.
- The combustion process was arisen in the presence of glucose.
- The unique structure and physical features of $Sr_3Al_2O_6$ nanoparticles was investigated.
- Owing to the unique structure, $Sr_3Al_2O_6$ nanoparticles was used in an energy storage setup.
- $Sr_3Al_2O_6$ nanosystems were utilized in order to find the hydrogen content.