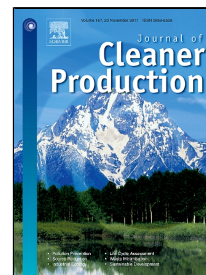


# Accepted Manuscript

Green and facial combustion synthesis of  $\text{Sr}_3\text{Al}_2\text{O}_6$  nanostructures; a potential electrochemical hydrogen storage material

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- $\text{Sr}_3\text{Al}_2\text{O}_6$  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  $\text{Sr}_3\text{Al}_2\text{O}_6$  nanoparticles was investigated.
- Owing to the unique structure,  $\text{Sr}_3\text{Al}_2\text{O}_6$  nanoparticles was used in an energy storage setup.
- $\text{Sr}_3\text{Al}_2\text{O}_6$  nanosystems were utilized in order to find the hydrogen content.

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