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Authors: Leili Liu, Jie Li, Lingyao Zhang, Siyu Tian

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**Effects of Magnesium-based Hydrogen Storage Materials on the Thermal decomposition, Burning Rate, and Explosive Heat of Ammonium Perchlorate-based Composite Solid Propellant**

Leili Liu<sup>\*</sup>, Jie Li, Lingyao Zhang, Siyu Tian

School of Chemical & Pharmaceutical Engineering, Shandong University of Technology, Jinan 250353, P.R. China

\* Corresponding author: Leili Liu [llli607@126.com](mailto:llli607@126.com)

Tel.: +86 531 8963 1208;

Fax: +86 531 8962 1207.

**Graphical Abstract**

$\text{MgH}_2$ ,  $\text{Mg}_2\text{NiH}_4$  and  $\text{Mg}_2\text{CuH}_3$  show obvious effect on the thermal decomposition and burning rate of AP-based composite solid propellant.

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