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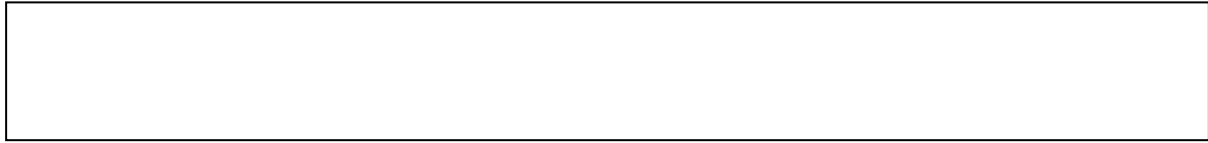
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NEWS RELEASE



(NH<sub>3</sub>)

NH<sub>3</sub>

NH<sub>3</sub>

500 C 250

300 C

NH<sub>3</sub>

NH<sub>3</sub>

(N<sub>2</sub>)

(N)

1000 °C

(Li)

Li

NH<sub>3</sub>

Li

500 C

- (Li-Sn)

NH<sub>3</sub>

①Li 合金の

②NH<sub>3</sub>

③

①

Li<sub>17</sub>Sn<sub>4</sub> + N<sub>2</sub>

3N + Li-Sn

②NH<sub>3</sub>

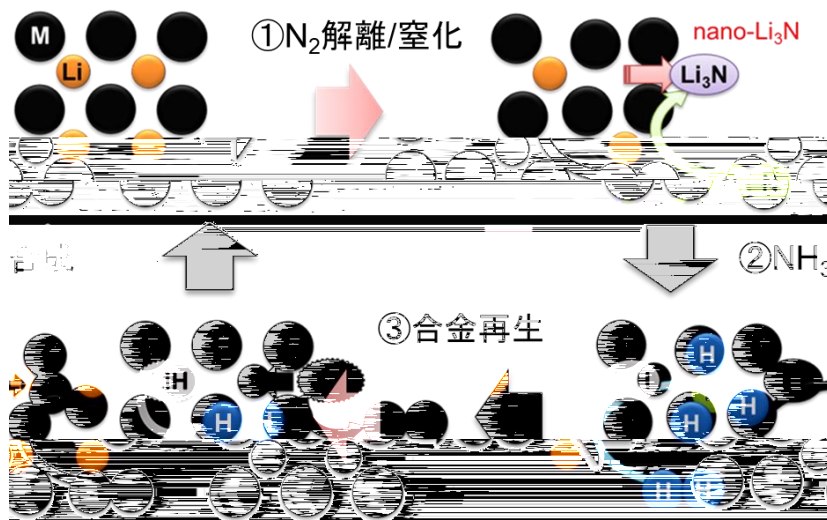
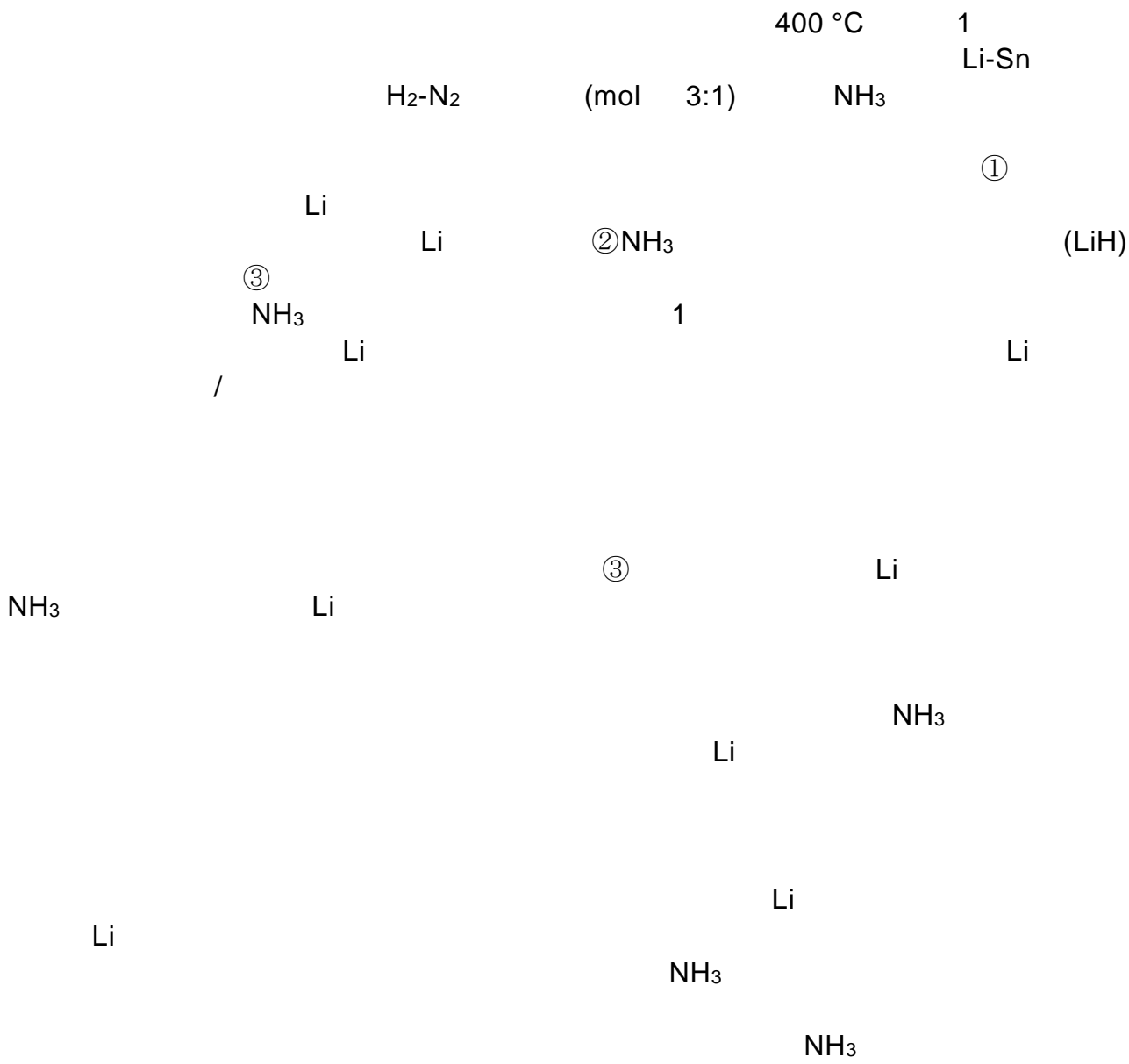
Li<sub>3</sub>N + H<sub>2</sub>

3 + LiH

③

LiH + Li-Sn

17Sn<sub>4</sub> + H<sub>2</sub>



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Pseudo catalytic ammonia synthesis by lithium-tin alloy  
Toshiro Yamaguchi, Keita Shinzato, Kyohei Yamamoto, Yongming Wang, Yuki  
Nakagawa, Shigehito Isobe, Tomoyuki Ichikawa, Hiroki Miyaoka\*, Takayuki Ichikawa  
International Journal of Hydrogen Energy, 45, 6806-6812, 2020  
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(B) JP17H03417

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