

1 Article

2 **Investigation of catalytic effects and compositional
3 variations in desorption characteristics of
4 LiNH₂-nanoMgH₂**5 **Sesha S. Srinivasan^{1,*}, D. Emre Demirocak², D. Yogi Goswami³, Elias K. Stefanakos³**6 1 Department of Physics, Florida Polytechnic University, 4700 Research Way, Lakeland, FL 33805;
7 ssrinivasan@fpol.org8 2 Department of Mechanical and Industrial Engineering, Texas A&M University-Kingsville Texas A&M
9 University-Kingsville, Kingsville, Texas 78363; Dervis.Demirocak@tamuk.edu10 3 Clean Energy Research Center, College of Engineering, University of South Florida, Tampa, FL 33620;
11 goswami@usf.edu, estefana@usf.edu12 * Correspondence: ssrinivasan@fpol.org; Tel.: +1-813-451-1876

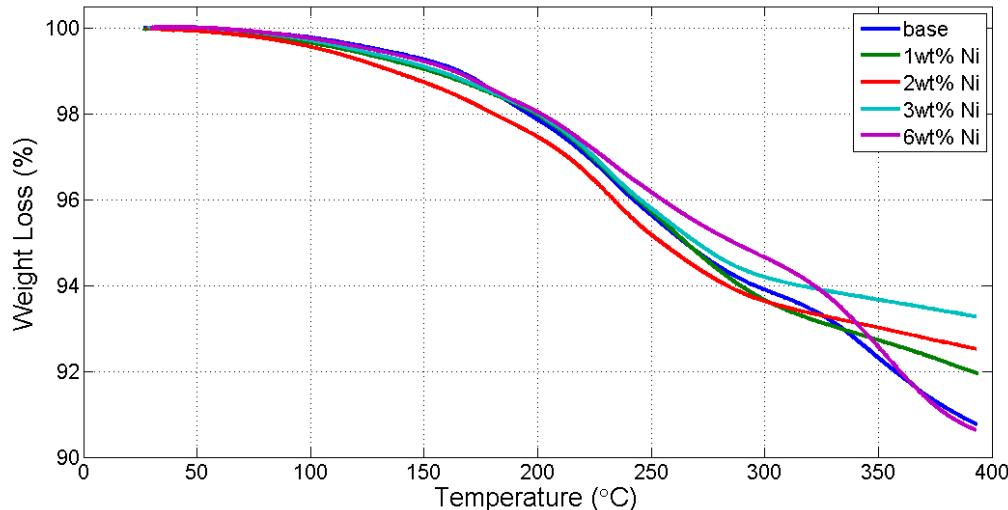
13 Academic Editor: name

14 Received: date; Accepted: date; Published: date

15

16 **SUPPLIMENTARY MATERIAL**

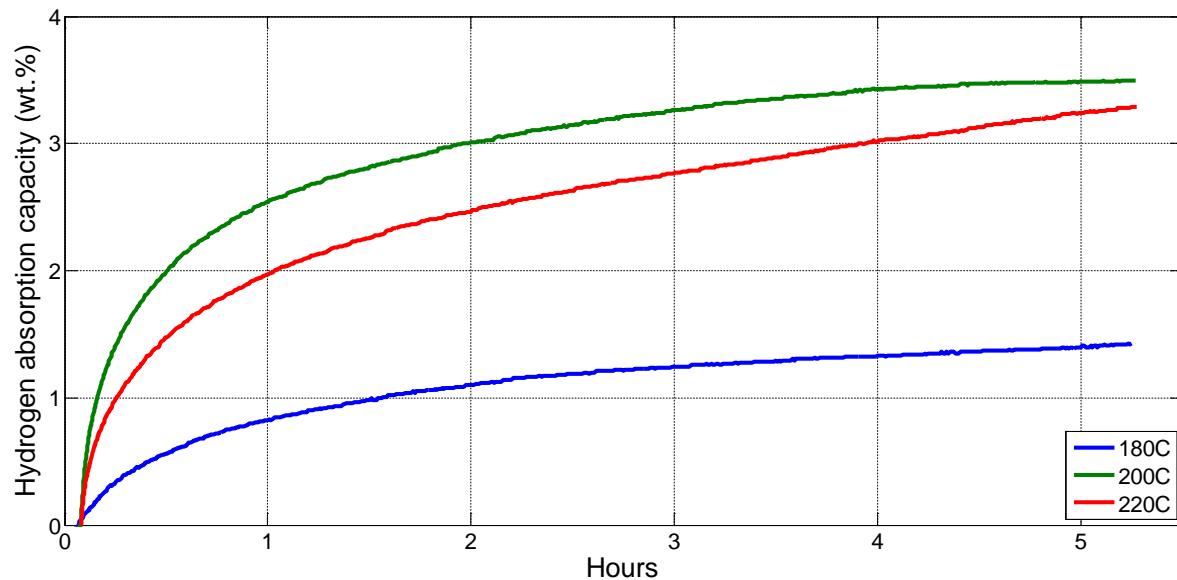
17



18

19 **Figure S1.** TGA analysis of Ni doped LiNH₂-nanoMgH₂ (2:1)

20



21

22 **Figure S2.** Absorption kinetics of 2LiNH₂-nanoMgH₂ + 2wt.% Ni at 180, 200 and 220°C.

23



© 2017 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).