LIST OF PUBLICATIONS

1. "Fast hydriding Mg–Zr–Mn–Ni alloy compositions for high capacity hydrogen storage application"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan.

International Journal of Hydrogen Energy, **37** (2012) 3671 – 3676.

2. "Synthesis & Reaction Kinetics of an Mg-Ni-Fe-Mn Alloy System for Hydrogen Storage"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan.

Journal of Chemical Engineering Communication (Accepted).

3. "Synthesis, Characterization and Reaction Kinetics of Nano-Structured Mg-V-Ni Composites for Solid-State Hydrogen Storage"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan.

International Journal of Energetic Materials and Chemical Propulsion (Communicated).

4. "Synthesis of a V-Ni Alloy with Low Temperature Hydriding Characteristics for Hydrogen Energy Storage"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan.

International Journal of Green Energy (Communicated).

5. "Rationalization for Use of Ideal Gas Law Analysis in Optimizing Solid State Alloys for Hydrogen Storage"

Kanti G. Bambhaniya, Gurpreet S. Grewal, Vagish Shrinet, Nand Lal Singh, Neelamkumar J. Buch.

International Journal of Applied Chemistry (Communicated).

6. "Study on Synthesis and Reaction Mechanisms of Doped Mg based Nano– Structured Solid State Hydrides"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh.

Proceeding of 2011 World Congress on Engineering and Technology, Oct. 28 – Nov. 2, 2011, Shanghai, China, Published by IEEE, **04** (2011) 172 – 175.

7. "Synthesis and Characterization of a Nano Structured Mg–Zr–Mn–Ni Composition for Hydrogen Storage for Stationary Energy Systems"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan.

International Conference on Applications of Renewable and Sustainable Energy for Industry and Society, December 16–18, 2010, Osmania University, Hyderabad, India (Oral presentation).

8. "Development of Optimized Magnesium Alloys with Enhanced Charging Kinetics for Efficient Hydrogen Storage"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan. *International Conference on Emerging Technologies in Renewable Energy*, August 18–21, 2010, Anna University Chennai, India (Poster presented).

9. "Kinetic Study of Nano-Structured Mg2Ni Alloy for Safe Hydrogen Storage"

K. G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, T. P. Govindan.

International Conference and Workshop on Nanostructured Ceramics and Other Nanomaterials (ICWNCN–2012), March 13–16, 2012, University of Delhi, India (Poster presented).

10. "Study the Kinetics of Absorption and Desorption of Hydrogen in Magnesium Based Alloys for Hydrogen Storage Application"

Kanti G. Bambhaniya, G. S. Grewal, V. Shrinet, N. L. Singh, A. K. Singh.

National Seminar on Renewable Energy Sources in India: Challenges & Strategies, February 20–21, 2009, University of Rajasthan, Jodhpur, India (Oral presentation).

Award:

Technical Excellence Award for the best technical paper given by Electrical Research & Development Association (ERDA), Vadodara.

Fast Hydriding Mg–Zr–Mn–Ni Alloy Compositions for High Capacity Hydrogen Storage applications

International Journal of hydrogen Energy, **37** (2012) 3671–3676