

Special issue of the 12th International Symposium on Novel and Nanomaterials 2012

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The 12th International Symposium on Novel and Nano Materials 2012, ISNNM-2012, was held in Istanbul, Turkey, from 26 to 30 August 2012. Unlike previous series of nanocomposite materials symposia, this symposium was focused on all nanomaterials research, for example Advanced Powder Metallurgy, Advanced Material Processing, Novel Functional Materials, Nanocomposites and Nanoporous materials, Energy and Nuclear Materials, Characterization and Modeling, Resources and Recycling, Rare Metals, and Mechanical Alloying and Mechanochemistry.

Approximately 190 participants from nine countries attended the symposium and 241 papers were presented—3 plenary lectures from Korea, Turkey, and Japan, 49 other oral presentations, and 170 poster presentations. After the reviewing process,

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26 papers were accepted for publication in this special volume of Research on Chemical Intermediates. The enthusiastic international participation and high quality of presentations is an indication of the interest in nano-composites, nano-catalysts, ultrafine polymers, nano-adsorbents, nano-characterization, etc., in fundamental research and applied engineering. All the main aspects of these materials were covered, including synthesis, mechanisms, microstructures, properties, and applications.

The symposium also provided the latest research results and a state-of-the-art overview of technology in this exciting and rapidly evolving field of novel and nano materials. In the oral sessions of the Symposium, research on Advanced Powder Metallurgy, Advanced Material Processing, Novel Functional Materials, Nanocomposites and Nanoporous materials, Energy and Nuclear Materials, Characterization and Modeling, Resources and Recycling, Rare Metals, and Mechanical Alloying and Mechanochemistry was reported. In the poster session of the Symposium, many papers on the properties and applications of a variety of nanomaterials, including metal alloys, carbon materials, ceramics, etc., were actively discussed.

We would like to thank the Local Organizing Committee and are also grateful for invaluable administrative support, both before and during the Symposium, by the High-Performance Nanocomposites Program (KAERI), the Korea Institute of Materials Science (KIMS), the University of Ulsan, the Nano Center for Fine Chemicals Fusion Technology (Inha University), the Korean Powder Metallurgy Institute (KPMI), and Istanbul Technical University (ITU). We would also like to acknowledge financial support from many industrial companies and from the Korean government agencies Ministry of Commerce, Industry and Energy (MOCIE) and the Asian Office of Aerospace Research and Development (AOARD). Without their support, the Symposium would have been less successful.

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