

About the Special Issue

It is a matter of great pleasure to bring out the proceedings of the International Conference on Material Science (ICMS-2013) as a special issue of Invertis Journal of Science & Technology. Conference covered a wide range of interdisciplinary and current research topics related to Material Science including nanomaterials, biomaterials, semiconductor and electronic materials, composites, surface engineering, sensor technology, modeling & simulation of material phenomena and other advance materials etc. This international Conference helped the researchers around the world to exchange the state-of-the-art of research and development and identify research needs as well as to open new doors for collaborative research in different aspects of Material Science.

Research on advanced materials includes nanomaterials, bio-nanomaterials, zero bandgap materials, composites, surface engineering, tissue engineering and biomaterials etc. These materials have numerous applications in electronics, biotechnology, medicine and energy harvesting. The importance of nano-science and nanotechnology has been well documented by both industrial and academic communities worldwide. It is believed that breakthrough in nanoscience and technology will change all aspects of human life in such diverse areas as. Electronic devices, energy, biomedicine, sensing, environment, and security etc.

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Dr. S.A. Hussain joined the Department of Physics, Tripura University (A Central University) as an Assistant Professor in 2004. His major fields of interest are Thin Film and Nanoscience:



Organo-clay hybrid, FRET, Biosensor, Biomimetic Surfaces. He was a Postdoctoral Fellow of K.U. Leuven, Belgium during 2007-2008. He has undertaken several research projects funded by DST, CSIR, DAE etc.

Dr. Hussain has published more than sixty research papers in international journals and edited two books. He is working as an associate editor of the Journal of Spectroscopy & Dynamics and also editorial board member of five other journals. Dr. Hussain is an Executive Committee member of Physics Academy of North East (PANE), invited member of American Nano Society, General Secretary

of Society for Physical Science in Tripura (SPST), Secretary of Tripura University Alumni Association and life member of several other professional societies. Dr. Hussain has already guided four Ph.D. scholars and three M. Phil. students. At present several students are working under his supervision. Dr. Hussain has research collaboration with several groups in India and abroad viz. (i) Prof. Jun Kawamata, Yamaguchi University, Japan; (ii) Prof. T. Matsumoto, Osaka University, Japan; (iii) Prof. R. A. Schoonheydt, K. U. Leuven, Belgium; (iv) Prof. A. Berman, Ben Gurion University, Israel. He has visited eleven countries and attended several scientific conferences in India and abroad. He earned several recognitions in professional area- few of them are - Jagdish Chandra Bose Award 2008-2009, TSCST, Govt. of Tripura; Young Scientist Research Award by DAE, Govt of India, Bharat Jyoti Award by IIFS, New Delhi, Visiting Scientist by K. U. Leuven, Belgium, Best Paper award in 96th ISCA, Felicitations by Asiatic Society of Bangladesh etc.