
Editorial

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Biographical notes: Angsuman Sarkar is presently serving as a Professor of Electronics and Communication Engineering in the Kalyani Government Engineering College, West Bengal. His current research interests are span around study of short channel effects of sub 100 nm MOSFETs and nano device modelling.

Arpan Deyasi is presently working as an Assistant Professor in the Department of Electronics and Communication Engineering in RCC Institute of Information Technology, Kolkata, India. He has more than 15 years of professional experience in academia and industry. His work spans around in the field of semiconductor nanostructure and semiconductor photonics.

This special issue of *International Journal of Nanoparticles* on ‘Frontiers of nano-dimensional devices: materials, physics, modelling and simulation’ is primarily focused to the cutting-edge progresses made in the domain of modelling and simulation of nano-dimensional structures and devices which are devoted to highlight and solve real-life problems through innovative architectures and analysis by using novel materials. The objective of this special issue is to make a glimpse in the area of latest low-dimensional device structures and technological growths. This special issue consists of some articles which have been carefully selected from the papers presented at Devices for Integrated Circuits (DevIC 2021) Conference held on 19–20 May 2021 via online mode, organised by Kalyani Government Engineering College.

We expect that this special issue will become interesting and significant among researchers and they will consider participation in future ‘DevIC’ conferences.