

Guest Editorial: Advances in Materials and its processing for Industrial Applications

In recent technology, advance in materials play significant role to enhance the metallurgical, mechanical and corrosion properties used for industrial applications. Now-a-days, the modern industries are using these newly originated superior and excellent materials for facilitating the numerous requirements in real-time practical works. Along with the development of these advanced and typical materials, the researchers around the globe are also working to offer the alternatives and solutions towards the effective processing and joining of these materials as the conventional methods are not so productive to report these requirements.

The focus of this special issue is to target over the various recent advancements in materials and advanced manufacturing processes that offer several productive solutions while processing latest and difficult-to-machine materials used in different industrial sectors. The ongoing researches in the domain Additive Manufacturing/Rapid Prototyping, Micro/Nano Manufacturing, Manufacturing systems, Advances in Welding/Casting/ Forming Processes, Conventional/ Unconventional Machining, Composite Materials, Advanced Manufacturing Processes, CIM/CAM/ Modelling and Simulation, Powder Metallurgy, Non-destructive Testing etc have been summarized at common platform from the distinct authors. This issue may provide readers, researchers and academics with in-depth knowledge of present scenarios and future improvements in advanced materials and processing techniques along with the futuristic transformations.

This special issue consists of various manuscripts having its roots in the core of advanced materials and its processing with conventional and non-conventional techniques. This special issue provides deep insights to its readers about the current scenarios and future advancements in the domain of materials and manufacturing under context of optimum value. The issue for offering the readers a better fundamental platform to explore these research domains precisely.

The Guest Editors hope that the special issue topics with the theme of “Advances in Materials and its processing for Industrial Applications” make the articles a coherent set that represents a good exposure of the highest quality work. Further, the guest editors hope that the contributions in this special issue provide the future reader an insight into the broad domain of advanced materials and its processing methods in real-life applications. The Guest Editors would like to express my gratitude and heartiest thanks to Editor-in-Chief, Prof S. Singhal, and Associate Editor Prof. R.P.Singh, and the entire Editorial Board members for their immense support and appreciated contributions to this special issue.

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