Special Issue

Recent Advances in Technology and Properties of Composite Materials

Message from the Guest Editors

Over the past decade, notable strides have been achieved in enhancing the performance and characteristics of composite materials through pioneering manufacturing techniques, sophisticated characterization methodologies, and innovative material amalgamations. These advancements both broaden the application scope of composites and present opportunities to tackle critical challenges such as sustainability, cost-effectiveness, and scalability. For our ***Special Issue***, the authors are invited to submit exceptional papers focusing on various aspects within the scope of composite materials. These encompass manufacturing, design, validation, characterization/testing, performance assessment, application exploration, and sustainability evaluation. Additionally, we welcome submissions addressing the domains of functional and smart composite materials, innovative conceptualizations in composite materials, and studies pertaining to biomimetics and bio-based composites. We eagerly anticipate contributions that significantly advance our understanding and application of these diverse material systems.

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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