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## Numerical and Experimental Analysis on Thermal, Electrical, and Mechanical Aspects of Carbon-Based Composites

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### Message from the Guest Editors

Dear Colleagues,

Polymers are classically recognized as insulating materials due to their low electrical and thermal conductivity, and therefore, are inappropriate to use in different practical applications. On the contrary, they are highly appreciated for their lightness, cost-effectiveness, ease of processing, corrosion resistance and strength-to-weight ratio. The recent developments in advanced polymers are based on nanotechnology. In particular, the introduction in polymer matrices of carbon-based fillers has been effective at improving the thermal and electrical conductivity of the resulting materials and their mechanical properties. However, despite the promising achievements made thus far, the desired results have still not been fully achieved due to a lot of factors (the aspect ratio of filler, polarization at the interface, and more) which affect the overall final properties of the resulting materials. Future experimental investigation and theoretical and computational studies on carbon-based nanocomposites are encouraged to add to our knowledge and achieve new goals.





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## Message from the Editor-in-Chief

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