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Development Characterization and Application of Biochar-Based Composites

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Message from the Guest Editors

Dear Colleagues,

Biochar-based fillers can now have new and attractive applications due to their low cost, large availability and smart properties. It is proven the biochar-based fillers can provide comparable characteristics to the matrix. Some examples are the successful use of biochar fillers for creating sensors based on biochar's electrical and piezoelectrical properties. Biochar-based composites have also shown very good mechanical properties that greatly enhanced matrix behaviour accordingly with the particular characteristic of the chosen filler, both in terms of resistance and friction. Biochar is a green and environmental friendly material and, since biochar is derived from biomasses pyrolysis, it is important to point out not only the properties of the final product but also to focus on standard production methods that tend to limit variation of properties due to different precursor feedstocks. In this Special Issue, the best researchers in the field will propose detailed discussions based on their experience, in order to bolster the interest around this new class of filler materials.

Dr. Massimo Rovere
Dr. Carlo Rosso
Guest Editors

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Message from the Editor-in-Chief

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