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Advances in Wear and Corrosion Resistance of Composite Materials

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Message from the Guest Editors

Wear- and corrosion-resistant composites and coatings based on these materials are widely used in aerospace engineering, power generation, biotechnology, and medicine. Composite materials on a metal or polymer base hardened with second phases of different nature and synthesized using special processing technologies allow the formation of final products with unique properties. The continuously growing market stimulates material scientists, process engineers, and software developers to create new composites with further improved chemical formulae, phase balance, and properties. This requires new knowledge on the fundamental aspects of chemical design and the optimization of processing parameters.

Research on advanced composites with unique properties, specific microstructure and phase composition, as well as the study of structure–property–performance relationships is a rapidly growing field. These studies frequently require a substantial experimental database. However, recent achievements in computer modeling significantly speed up the design process, reducing the time between the idea creation and the product manufacturing and sales.

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Message from the Editor-in-Chief

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