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Mechanical Properties and Durability of Epoxy Resins and Epoxy-Based Composites

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Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editor

Dear Colleagues,

The range and amount of applications of polymers and polymer-based composites including fiber-reinforced plastics are growing continuously, mostly due to their intrinsic characteristics such as high specific strength and rigidity, good resistance to fatigue and corrosion, and the possibility to integrate additional functions. The main drawback of epoxy resins and epoxy-based composites is their relatively high sensitivity to environmental factors (e.g., moisture, temperature, UV radiation, etc.). Therefore, the analysis of the durability of such materials is particularly important for long-term applications. The use of sustainable and recyclable epoxy resins and fibers/fillers (including nanofillers) may lead to prolonged durability of such materials and also contribute to the circular economy as a whole.

The topics of interest regard the following aspects of epoxy resins and epoxy-based composites: mechanical properties; environmental degradation and stability; structure–properties relationship; analysis and prediction of durability; long-term deformability.

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Message from the Editor-in-Chief

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