



Hybrid Epoxy Nanocomposites

Guest Editors:

Prof. Dr. Mohamed Bakar

Faculty of Chemical Engineering and Commodity Science, Kazimierz Pulaski University of Technology and Humanities in Radom, B. Chrobrego 27 Str., 26-600 Radom, Poland

Dr. Wojciech Kucharczyk

Faculty of Mechanical Engineering, Kazimierz Pulaski University of Technology and Humanities in Radom, 26-600 Radom, Poland

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Message from the Guest Editors

Epoxy resins are known for their excellent chemical resistance, high specific strength, good dimensional stability, and adhesion properties. However, once cured, epoxy resins are brittle with low strain at break, low impact strength, and low resistance to crack propagation. The modification of epoxy resins to improve mentioned properties has been the subject of intense research interest in the last four decades.

An adequate selection of modifiers could lead to specific interactions between the components of the hybrid composite and, therefore, to a greater improvement in properties, but also to avoiding undesirable results. However, although various studies are still devoted to epoxy composites, there is a great challenge to produce epoxy hybrid nanocomposites based on renewable resources with improved performance properties and taking into account environmental protection.

The aim of this Special Issue is to collect original research papers on the latest developments in the field of hybrid epoxy nanocomposites, including the conditions of their preparation, evaluation of properties, and enhancement of mechanisms of properties and fields of application.





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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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