Special Issue

Wear Behavior of Polymer Composites

Message from the Guest Editors

Polymer composite materials are of particular interest in applied research as well as in fundamental science due to their high technological potential in the production of novel materials with tailor-made properties. At present, the use of polymer composites in various applications has become state-of-the-art, especially when wear processes (sliding, abrasion, erosion) become a critical issue. The accumulation of wear can be translated into a high cost of maintenance, tools, and manufacturing, inconsistency in product life prediction, etc. Controlling the reinforcement present in a variety of morphologies such as fibers, particles, whiskers, and platelets with micro or nano sizes makes it possible to considerably improve the wear behavior of the polymer composites.

Wear behavior of fiber reinforced/particulate-filled fiber-reinforced polymer composites;
Wear behavior of bio-resin-based polymer composites;
Wear behavior of nanoparticles-filled polymer composites;
Wear behavior of polymer composites for industrial applications;
Multiscale wear behavior from nano and micro to macroscale;
Numerical and experimental evaluation of the wear behavior of polymer composites.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2021)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/48860

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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