

Special Issue on **Tribology of Polymer Composites**

CALL FOR PAPERS

The development of composite materials and related design and manufacturing technologies is one of the most important advances in the history of materials. The use of composite materials has increased in various areas of science and technology due to their special properties, with applications in biomedical, aircraft, automotive, defence and aerospace, and other advanced industries.

Over the past few decades, it is found that polymers have replaced many of the conventional metals/materials in various applications. This is possible because of the advantages such as ease of processing, productivity, and cost reduction offered by polymers over conventional materials. Polymer composites are often used as engineering and structural components functioning in hostile workplaces where they are subjected to various tribological situations. Tribology is defined as the “science and technology of interacting surfaces in relative motion.” It includes the research and application of principles of friction, wear, and lubrication. The effect of wear on the reliability of industrial components is recognised widely and the cost of wear has also been recognised to be very high.

The main focus of this special issue is to improve the dissemination of advanced research in the area of tribology of polymer composites. Original research articles are invited reporting experimental and modelling studies in the area of tribology and surface engineering of polymer composites.

Potential topics include but are not limited to the following:

- ▶ Advanced wear resistant materials
- ▶ Wear, lubricants, and additives
- ▶ Wear mechanisms
- ▶ Surface treatments and coatings
- ▶ Surface characterization
- ▶ Micro/nanotribology
- ▶ Abrasive and erosion wear
- ▶ Computational techniques in tribology
- ▶ Tribological aspects in design and manufacturing

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/at/tpc/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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