Special Issue

Friction and Lubrication of Rolling Element Bearings

Message from the Guest Editors

Roller element bearings play a vital role in most engineering applications. The current shift towards sustainability and green energy add more challenges to the tribology of rolling bearings. This list of challenges is extensive and includes harsh lubrication conditions of roller bearings in wind turbines with frequent start–stops or electric discharge machining (EDM) in EV applications. This necessitates the demand for more efficient and reliable rolling element bearings, covering a variety of aspects, including geometric optimization, as well as lubricant and material properties. The advances in simulations and testing tools aids the development of more accurate and efficient predictive methods. This Special Issue aims to provide the latest research and developments in the field of rolling element bearing tribology. We invite submissions from both academic and industrial colleagues to form a comprehensive collection of research in this field.

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.
Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.
There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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