Special Issue

Frictional Behavior and Wear Performance of Cast Irons, 2nd Edition

Message from the Guest Editor

The engineering components made of cast iron are commonly utilized in automobiles, agriculture, and the mining industry. The friction and wear between sliding surfaces would significantly affect the operating performance and service life of these components. This Special Issue, “Frictional Behavior and Wear Performance of Cast Irons, 2nd Edition”, focuses on the influences of heat treatment, surface treatment, coatings, microstructure, chemical compositions, and surface textures on the tribological properties of cast irons. Original papers are invited on topics such as novel surface treatments and low-friction coatings for cast irons, optimization of heat treatments to improve the wear properties and reduce the frictional coefficient of sliding interfaces, and development of surface textures to protect the contact areas of cast irons. Also, review papers regarding the fundamentals and applications of the tribological properties of cast irons are welcome.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants.*

Editor-in-Chief

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