Special Issue

Forming and Manufacturing Technology of High-Performance Gears

Message from the Guest Editors

Gears are pivotal in transmission systems across automotive, aerospace, nuclear energy, and more. Their performance directly impacts equipment reliability and service life. To meet growing demands for precision, durability, and efficiency in extreme conditions, advancements in high-performance gear manufacturing technology are crucial. In order to deeply discuss the research progress of gear high-performance forming manufacturing technology and share cutting-edge research results, we are pleased to invite you to a Special Issue with the title 'Forming and Manufacturing Technology of High Performance Gears' for the open access journal Materials.

This Special Issue aims to foster interdisciplinary academic exchanges and promote innovation in advanced gear manufacturing technology with a global focus. It seeks to compile the latest research from global experts on high-performance manufacturing technology, exploring future paths and aiding industry development.

Contributions are welcomed on topics such as new gear materials, plastic-forming technology, heat treatment processes, and precision control. We eagerly await your submissions.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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