Special Issue

Advances in Industrial Maintenance: Materials, Technologies and Devices

Message from the Guest Editors

It is well known that tribology is the science dealing with friction, lubrication, and wear. It is actually an interdisciplinary topic that is deeply connected with other scientific disciplines. At the same time, however, applied tribology is a research field whose applicability in industry is nowadays extremely wide and that has close links with industrial maintenance. Industrial maintenance is the science that deals with maintaining or restoring the functions of industrial systems. In fact, maintenance seeks to remove the effects of friction and wear on industrial systems and to find lubrication systems and lubricants that can contribute to this goal. The purpose of this SI is to contribute to the understanding of wear mechanisms in industrial systems in order to prevent and reduce it and improve lubrication systems. We also wish to identify maintenance management systems that take into account tribological aspects, in all their complexity, in the context of the transition to Industry 4.0.

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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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