

Special Issue

Advancements in Triboelectric Materials and Devices

Message from the Guest Editor

Among the energy-harvesting devices, the triboelectric ones have great potential to convert environmental stimuli into usable electrical power, which can be utilized in various fields, including human-machine interfaces, soft robotics and internet-of-things. Because of the diverse merits including simple preparation process, low cost, and high performance, the triboelectric devices play a vital role in the development of self-powered devices for direct detection of bio-signals responsive to different micromotions, and the device operation by a capacitor stored from the mechanical stimuli, which can be implanted anywhere on the body or cloth. In recent years, significant advancements have been achieved in the development of effective triboelectric materials and novel triboelectric application. This Special Issue aims to explore the latest research and developments in triboelectric materials as well as highlight their applications in different fields.

Guest Editor

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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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