

Special Issue

Active Functional Materials and Wearable Applications

Message from the Guest Editor

Flexible sensors, actuators and electronics have been developed owing to the unique mechanical robustness of functional soft materials that have high flexibility, stretchability and wearability. Diverse approaches to structural design and advanced fabrication technologies enable the development of smart structures and devices (e.g. bulked and prestressed structures, and mesh, coil, sponge and wavy structures) that can be stretched and work stably under mechanical disturbances. Functional materials for flexible electronics and wearable technologies can be employed in a wide range of applications, including wearable healthcare, flexible displays, solid-state electronics, sensors (e.g. physical and gas sensors), nanogenerators and solar cells that are thin, lightweight, robust, bendable and conformable to human bodies. This Special Issue highlights and discusses the modern trend of functional materials and their applications for flexible, stretchable and wearable devices, including fundamental research into materials, fabrications and processes, as well as the development of potential flexible and stretchable wearable applications.

Guest Editor

Dr. Toan Dinh

Centre for Future Materials (Research), University of Southern Queensland, Toowoomba, Queensland, Australia

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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