

Special Issue

Research Progress in Flexible Electronic Materials and Devices

Message from the Guest Editors

Different from the traditional semiconductor silicon integration devices, flexible electronic devices have unique advantages, such as flexibility and ductility. It is necessary to understand the physical properties of flexible single-crystal functional films under different bending states before designing flexible devices, and this has become one of the key scientific problems to be solved. As we all know, functional single-crystal oxide materials have rich physical properties due to the strong interaction between charge, spin, orbit and lattice. By introducing the new physical parameter of mechanical bending deformation/strain, some unique physical phenomena and properties will be produced. Therefore, the effects of bending deformation/strain on the ferromagnetic, ferroelectric, domain-switching and electrical transport properties of flexible materials should be studied, and the mechanism by which mechanical bending induces the change in physical properties will be revealed. Therefore, a series of high-quality prototype flexible devices can further achieve multifunction, miniaturization and integration for future flexible electronics.

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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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