Special Issue

Advanced Applications and Novel Technologies of Positron Annihilation

Message from the Guest Editors

Postron Annihilation Technique (PAT) is an unique nuclear physics technique that can provide information about the microstructure in atomic scale, electron momentum distribution and defect state, and so on. A lot of studies have focused on discovering and observing phenomena, improving experimental techniques, and proposing various theoretical models for tentative descriptions. So far, in special materials science research, positrons play an important role in atomic-level defect determination/identification and phase transition research. The development of sub-nanosecond nuclear electronics technology, submiradian-angle correlation measurement technology and high-energy resolution semiconductor detectors can finely measure the annihilation characteristics of positrons, so that the research and application of novel positron annihilation technology have been rapidly developed. This Special Issue will be a collection of full papers, short communications and review papers focusing on recent progress in the field of fundamental aspects, applications and devices based on them.

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Deadline for manuscript 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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