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Advanced Applications and Novel Technologies of Positron Annihilation

Guest Editors:

Prof. Dr. Xingzhong Cao

Dr. Peng Kuang

Dr. Te Zhu

Dr. Eryang Lu

Deadline for manuscript submissions:
closed (20 July 2023)

Message from the Guest Editors

Dear Colleagues,

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.

Prof. Dr. Xingzhong Cao
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Guest Editors

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Message from the Editor-in-Chief

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