

Special Issue

Positron Annihilation Spectroscopies in Condensed Matter

Message from the Guest Editors

The search for new materials with good performance that are also sustainable for the environment requires a suitable combination of advanced methods to understand their structural features, from macro- to nanoscales. Among the techniques able to supply information about the properties of a material at an atomic level, positron annihilation offers several advantages: it is non-destructive and is able to detect sub-nanometric cavities, such as vacancies in metals, voids in porous materials, and free volume holes in polymers. Furthermore, using a beam of monoenergetic positrons, it is possible to explore different subsurface layers of material. The aim of this Special Issue is to collect reviews as well as original research articles on this technique, showing its capability to potentially investigate any kind of material, from metals to semiconductors and non-metallic systems.

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