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Positronium in Normal Alkanes
The Influence of Admixtures in n-Alkanes on Electron Traps Motion of Molecules at Plateau Region: Case of Propylene Glycol; "In Situ" Observation of Crystallization in Propylene Carbonate, Salol and M-Toluidine; Encapsulation of Natural Flavors in Cyclodextrins: Free Volume Studies by PALS; Modification of the Crystallographic Structure of Olanzapine during Solvation by PALS and X-Ray Diffraction Methods; Molecular Packing of Carbohydrate Oligomer Encapsulants - A Free Volume Perspective; Chapter 4: Confined Systems; Annihilation Characteristics of Confined 2D Positronium
Hexadecane in SiO2 Aerogels Phase Transition of Water Confined in Saponites Using Positron Annihilation Spectroscopy; Topological Quasi-Positroniums in Graphite-Alkali Metal Intercalation Compounds; Chapter 5: Liquids; Positron Annihilation Parameters in Connection to Surface Phenomenon of Liquids; Location of Phase Boundaries of Lyotropic Liquid Crystal Employing Positron Lifetime Spectroscopy and Electrical Conductivity Measurement; Positron and Charged Ion Diffusion and the Effective Interactions in the Liquid Phase; Chapter 6: Polymers
In Situ Positron Lifetime Measurement for the Strained Polyethylene Positron Irradiation Effects in HDPE during PAL Measurement at Ambient Temperature; Positron Lifetimes and Mechanical Properties of Gamma-Irradiated Ultra High Molecular Weight Polyethylene; Positron Annihilation Lifetime of Irradiated Polyimide; Effect of Crosslinkers on the Microstructure and Swelling Properties of the N-Isopropyl Acrylamide Gels: A Positron Annihilation Study; Effect of Hydrophilicity of the Sidechains on the Amorphous Structure of Polypropylene Derivatives Studied by Positronium Lifetime Measurements
Positron Lifetimes and Crystallinity of -Irradiated Polypropylenes

Sommario/riassunto

These proceedings, comprising 66 peer-review papers, are divided into 10 chapters covering: fundamental aspects (of positron and positronium chemistry), membranes, molecular systems, confined systems, liquids, polymers, porous systems, non-metallic materials, nuclear materials, experimental techniques. This work owes a lot to the authors' commitment to positron and positronium chemistry and related subjects. Review from Book News Inc.: The result of a conference that took place in September 2011 at Smolenice Castlein in Slovakia, this work contains 66 relatively short papers on subjects ranging