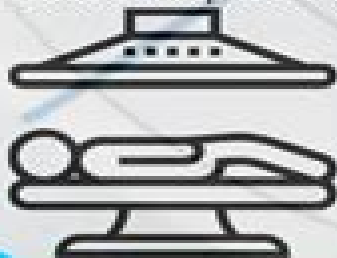


Positronium chemistry

- Positronium is a unique atom-like entity made of an electron and its antimatter counterpart, the positron
- Unlike regular atoms, positronium is inherently unstable and annihilates itself, emitting gamma rays
- This feature is utilized in materials science to study the microscopic properties of solids and voids
- Positronium chemistry explores how it interacts with other atoms and molecules, potentially paving the way for advanced material analysis and quantum computing applications

Practical example: Radiation therapy

- Positronium chemistry involves the study of positronium, a unique quasi-atom made of an electron and its antimatter counterpart, the positron
- In radiation therapy, particularly in advanced cancer treatments, positronium plays a crucial role
- It forms briefly when positrons emitted from medical isotopes interact with electrons in human tissue
- Monitoring the annihilation of positronium can help assess the effectiveness of the treatment and provide detailed imaging of tumors
- This technique enhances the precision and outcomes of radiation therapy



Positronium Chemistry

Michael Seilmaier

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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annihilation research The only three light particles participating in low energy physics and chemistry are the electron positron and positronium Positronium Ps is the most important anomalous atom This volume gives the only available critical discussion of the chemistry of the two strange light particles the positron and positronium while the excess electron has been much discussed Many unusual phenomena in the reaction kinetics of the positron positronium and excess electron and in radiation chemistry and physics can be investigated in positron annihilation which also gives important information on defects in solids

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Positron and Positronium Chemistry S.J. Wang, Z.Q. Chen, B. Wang, Y.C. Jean, 2008-11-06 Selected peer reviewed papers from 9th International Workshop on Positron and Positronium Chemistry May 11 15 2008 Wuhan University China

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Positron Physics M. Charlton, J. W. Humberston, 2005-10-13 This book provides a comprehensive and up to date account of the field of low energy positrons and positronium within atomic and molecular physics It begins with an introduction to the field discussing the background to low energy positron beams and then covers topics such as total scattering cross sections elastic scattering positronium formation excitation and ionisation annihilation and positronium interactions Each chapter contains a blend of theory and experiment giving a balanced treatment of all the topics The book will be useful for graduate students and researchers in physics and chemistry It is ideal for those wishing to gain rapid in depth knowledge of this unique branch of atomic physics

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Fundamentals of Radiochemistry Jean-Pierre Adloff, 2018-01-18 Fundamentals of Radiochemistry presents a comprehensive overview of the principles objectives and methods of radiochemistry and how they are applied in various fields of chemistry Topics covered include characteristics of radioactivity and radioactive matter the chemistry of ephemeral radionuclides actinides of high atomic number positronium and physicochemical behavior of systems containing one or more compounds at tracer or sub tracer concentration Numerous appendices are included to provide additional detail to information presented in chapters Because Fundamentals of Radiochemistry is the first book to discuss what chemical information can be obtained with sub tracer amounts it is essential reading for inorganic chemists radiochemists analytical chemists nuclear chemists and others interested in the topic

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Abstracts of Scientific Papers Presented, 1966 **Positron Spectroscopy of Solids** A. Dupasquier, Allen P. Mills, Jr., 2006-01-15 The lifetime of a positron inside a solid is normally less than a fraction of nanosecond This is a very short time on a human scale but is long enough to enable the positron to visit an extended region of the material and to sense the atomic and electronic structure of the environment Thus we can inject a positron in a sample to draw from it some signal giving us information on the microscopic properties of the material This idea has been successfully developed in a number of positron based techniques of physical analysis with resolution in energy momentum or position The complex of these techniques is what we call now positron spectroscopy of solids The field of application of the positron spectroscopy extends from advanced problems of solid state physics to industrial applications in the area of characterization of high tech materials This volume focuses the attention on the physics that can be learned from positron based methods but also frames those methods in a wider context including other experimental approaches It can be considered as a textbook on positron spectroscopy of solids the sort of book that the newcomer takes for his approach to this field but also as a useful research

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