

1. Record Nr.	UNINA9910810980203321
Autore	Charlton M (Michael), <1956->
Titolo	Positron physics // M. Charlton, J.W. Humberston
Pubbl/distr/stampa	Cambridge [England] ; ; New York, : Cambridge University Press, 2001
ISBN	1-107-11183-8 1-280-41457-X 9786610414574 0-511-06540-X 1-139-14670-X 0-511-17252-4 0-511-05907-8 0-511-31057-9 0-511-53520-1 0-511-06753-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (x, 454 pages) : digital, PDF file(s)
Collana	Cambridge monographs on atomic, molecular, and chemical physics ; ; 11
Altri autori (Persone)	HumberstonJohn W
Disciplina	539.7/214
Soggetti	Positrons Positronium
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 393-447) and index.
Nota di contenuto	Introduction -- Total scattering cross sections -- Elastic scattering -- Positronium formation -- Excitation and ionization -- Positron annihilation -- Positronium and its interactions -- Exotic species involving positrons.
Sommario/riassunto	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.
