

1. Record Nr.	UNINA9910254613703321
Titolo	Hard X-ray Photoelectron Spectroscopy (HAXPES) // edited by Joseph Woicik
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-24043-9
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (576 p.)
Collana	Springer Series in Surface Sciences, , 0931-5195 ; ; 59
Disciplina	543.62
Soggetti	Atomic structure Molecular structure Spectrum analysis Microscopy Materials—Surfaces Thin films Surfaces (Physics) Interfaces (Physical sciences) Atomic/Molecular Structure and Spectra Spectroscopy/Spectrometry Spectroscopy and Microscopy Surfaces and Interfaces, Thin Films Surface and Interface Science, Thin Films
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Overview -- Early Work and SSRP -- Instrumentation and Spin Resolved -- Theory -- Inelastic Mean Free Path -- Final State Effects -- Recoil Effects -- Atomic and Molecular -- Angle Resolved -- Valence Density of States -- Diffraction -- Advanced Materials -- Correlated Materials -- Perovskite Interfaces and Superlattices -- Heusler Compounds -- In-Situ Surface Chemistry -- Heterojunction Band Alignment -- Semiconductor Electronics -- Photoelectron Imaging -- Time Resolved.
Sommario/riassunto	This book provides the first complete and up-to-date summary of the

state of the art in HAXPES and motivates readers to harness its powerful capabilities in their own research. The chapters are written by experts. They include historical work, modern instrumentation, theory and applications. This book spans from physics to chemistry and materials science and engineering. In consideration of the rapid development of the technique, several chapters include highlights illustrating future opportunities as well.
