

1. Record Nr.	UNINA9910780877903321
Titolo	Properties of perovskites and other oxides [[electronic resource] /] / editors, K. Alex Muller, Tom W. Kool
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2010
ISBN	1-282-76202-8 9786612762024 981-4293-36-9
Descrizione fisica	1 online resource (584 p.)
Altri autori (Persone)	MullerK. A <1927-> (Karl A.) KoolTom W
Disciplina	546/.6
Soggetti	Transition metal oxides - Electric properties Superconductivity Transition metal ions
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.
Nota di contenuto	Preface; Contents; Introduction; I. Electron Paramagnetic Resonance; II. 'Transition-Metal Ions in Pyramidal Oxygen Coordination; III. Photochromism; IV. The Jahn-Teller Effect; V. Non-Kramers Ions; VI. Off-Center Ions and a Special Cr ³⁺ Center; VII. Structural Phase Transitions; VIII. Dipolar and Quantum Paraelectric Behavior; IX. Electronic Structure of SrTiO ₃ ; X. Experimental Evidence of Fermi Glasses and Itinerant Polarons; XI. Superconductivity
Sommario/riassunto	In this book some 50 papers published by K A Muller as author or co-author over several decades, amplified by more recent work mainly by T W Kool with collaborators, are reproduced. The main subject is Electron Paramagnetic Resonance (EPR) applied to the study of perovskites and other oxides with related subjects. This wealth of papers is organized into eleven chapters, each with an introductory text written in the light of current understanding. The contributions of the first author on structural phase transitions have been immense, and because K A Muller and J C Fayet have published a review