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Autore	Italia : Camera dei deputati
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Altri autori (Persone)	Miceli, Luigi
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2. Record Nr.	UNINA9910557609903321
Autore	Corradi Gábor
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Sommario/riassunto	<p>The present volume "New Trends in Lithium Niobate: From Bulk to Nanocrystals" contains the materials of a Special Issue of the MDPI journal Crystals dedicated to the memory of Prof. Dr. Ortwin F. Schirmer and provides a new synopsis of his research focusing on LiNbO<sub>3</sub>. It also includes recent developments, exemplifying the continued interest in this outstanding ferroelectric, non-linear optical and holographic crystal as a workhorse for testing and realizing new ideas and applications. This book starts with reviews on intrinsic and extrinsic crystal defects in LiNbO<sub>3</sub> of single-crystal, thin-film or nano-powder forms, studied by various optical, magnetic resonance and nuclear methods, clarifying in particular the reasons for the suppression of anion vacancy formation upon thermal reduction, mechano-chemical processing or irradiations of various types. The reviews are followed by research papers on the experimental and theoretical investigation of small polarons, together with recent results on the properties of Li(Nb,Ta)O<sub>3</sub> mixed crystals. Among the various contributions dealing with nonlinear optical applications, papers on device development, entangled photon pair generation and thin films on the Lithium Niobate On Insulator (LNOI) platform can also be found.</p>