

Keynote Lectures



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Nonstoichiometry and chemical expansion of cerium oxide based thin films



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Oxides by Atomic Layer Deposition - from applications in nanoelectronics to photovoltaics



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Lithium niobate: from single crystals to nanocrystals



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Oxide Composite Scintillation Materials for High-Energy Radiation Detectors



Aleksandr Lushchik

Institute of Physics, University of Tartu, Estonia

Characterization of radiation-induced point defects via EPR and optical spectroscopy in oxides



Vitaliy Mykhaylyk

Diamond Light Source Ltd.; Didcot, Oxfordshire, United Kingdom

Foray into non-contact luminescence cryothermometry enabled by oxides



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The Institute of Power Engineering, Warsaw, Poland

Quantitative description of oxygen non-stoichiometry in mixed ionic and electronic conductors based on a non-ideal solution approach



Gunnar Suchaneck

Institut für Festkörperelektronik, Technische Universität Dresden, Germany

Spintronic material $\text{Sr}_2\text{FeMoO}_6$



Vladimir Pankratov

Institute of Solid State Physics, University of Latvia, Riga, Latvia

Luminescence spectroscopy of oxide nanoparticles under synchrotron radiation excitations



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Radiation-induced point defects and processes in ionic oxides – where we are standing now and what we understand better



Andriy Zakutayev

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Wide band gap oxide semiconductors for electronics that can operate at high temperature and high power



Yuriy Zorenko

Institute of Physics, Kazimierz Wielki University in Bydgoszcz, Poland

Development of advanced composite scintillators and LED converters based on the epitaxial structures of garnet compounds



Anatoliy Senyshyn

Forschungsneutronenquelle Heinz Maier-Leibnitz (FRM II) Technische Universität München, Germany

Diffraction computed tomography and its applications



Aleksey Yaremchenko

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Thermochemical expansion: Constraints for the high-temperature processing and operation of perovskite-related oxides