



# **Defects and Surface-Induced Effects in Advanced Perovskites (Nato Science Partnership Subseries: 3)**

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## Defects and Surface-Induced Effects in Advanced Perovskites (Nato Science Partnership Subseries: 3)

Complex oxide materials, especially the  $ABO_3$ -type perovskite materials, have been attracting growing scientific interest due to their unique electro-optical properties, leading to photorefractive effects that form the basis for such devices as holographic storage, optical data processing and phase conjugation. The optical and mechanical properties of non-metals are strongly affected by the defects and impurities that are unavoidable in any real material. Nanoscopically sized surface effects play an important role, especially in multi-layered  $ABO_3$  structures, which are good candidates for high capacity memory cells.

The 51 papers presented here report the latest developments and new results and will greatly stimulate progress in high-tech technologies using perovskite materials.

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