

Strontium-Based Electronic Ceramics for High-Temperature Applications

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Many strontium-containing perovskites exhibit high-temperature properties appropriate to MHD electrode and related applications. The preparation, X-ray characterization, fabrication, and investigation of the physical and chemical properties of a wide range of strontium-containing perovskites and related compounds has been undertaken in these

laboratories and will be reported in reference to specific applications. Fundamental and technological data will be presented and the significance of composition, crystallography and microstructure analysed. Microstructure has been related to elemental distribution by SEM/microbeam probe investigation for many compositions.