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Suitable lead-free piezoelectric materials are still being developed as no single composition has been proposed with properties that are comparable to that of PZT. This review highlights some of the current advances in the development of lead-free piezoelectric materials with a focus on those exhibiting the perovskite structure.

Advances in Lead-Free Piezoelectric Materials for Sensors

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Advances in Piezoelectric Materials for Sensing and energy

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This book systematically reviews the history of lead-free piezoelectric materials, including the latest research. It also addresses a number of important issues, such as new types of materials prepared in a multitude of sizes, structural and physical properties, and potential applications for high-performance devices.

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1 The development of piezoelectric materials and the new perspective 1 K. Uchino, The Pennsylvania State University, USA 1.1 The history of piezoelectrics 1 1.2 Piezoelectric materials: present status 21 1.3 Piezoelectric devices: brief review of applications 44 1.4 References 82 Part I Piezoelectric materials 2 Lead

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Advances in Lead-Free Piezoelectric Materials

Dielectric, Piezoelectric, and Ferroelectric Materials: Advances for Emerging Applications Dielectric, piezoelectric, and ferroelectric materials have played key roles in a variety of modern electric devices and established the huge market. The application field of the electroceramics keeps expanding, while the lack of solution

Symposium 7: Dielectric, Piezoelectric, and Ferroelectric

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