

Relaxor Ferroelectrics: Emerging Opportunities

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Abstracts

Summary

The technological developments in relaxor ferroelectrics in recent years have significantly improved the materials' performance and manufacturing process. The improved relaxor ferroelectrics and their manufacturing process are likely to be commercialized soon, which will allow manufacturers in various industries to use these materials to make products with new functions. With the use of advanced relaxor ferroelectrics, a micro-size ultrasonic motor can quietly and stably drive a medical device, a robotic arm or an industrial camera in a high-temperature or cryogenic environment. A medical imaging system can visualize that which occurs inside the body of a living individual and produce images with

high resolutions. A military sonar system can locate a target more accurately and efficiently. All these new prospects will help the industries expand and create new market sizes worth tens of billion dollars per year.

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