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Ultra Thin Ferroic Materials

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Message from the Guest Editor

Dear Colleagues,

Understanding and controlling electronic functionality at the nanoscale is one of the main current challenges in materials science. In particular, ferroelectric and magnetic materials are the key elements in a variety of electronics devices, from memories to sensors, of which miniaturization is actively pursued. However, due to their very nature and the long-range interactions involved, reducing the dimensions of ferroic materials below 50-100 nm not only poses important technical questions and highly interesting fundamental problems, but also generates novel and distinct functionalities. In this Special Issue, we want to bring forward some of the concepts, problems, and questions presently under discussion in the field of ultrathin ferroic films.

Prof. Dr. Beatriz Noheda
Guest Editor

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Message from the Editor-in-Chief

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