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Research Progress of Perovskite Ferroelectric Materials

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Message from the Guest Editors

Dear Colleagues,

Ferroelectrics exhibit spontaneous polarization that can be switched with an applied electric field. Polarization switching in ferroelectrics is associated with a hysteresis, which is often observed in non-centrosymmetric crystals. Perovskite ABO3 type ferroelectrics are technologically robust ferroelectric materials. whose ferroelectric properties are controlled systematically by a suitable substitution of the cations (acceptor and/or donor dopant) on the A-site and/or B-site in order to innovate materials with improved ferroelectric properties, resulting from strengthening the domain wall mobility and the enhancement of electronic properties. This Special Issue seeks to highlight the role of perovskite (in bulk and in thin films) on crucial ferroelectric properties and to showcase cutting-edge work and applications involving different ferroelectric ordering (ferroelectric, anti-ferroelectric, relaxor ferroelectric etc.)











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Message from the Editor-in-Chief

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