

1次元四面体鎖における室温強誘電・強磁性

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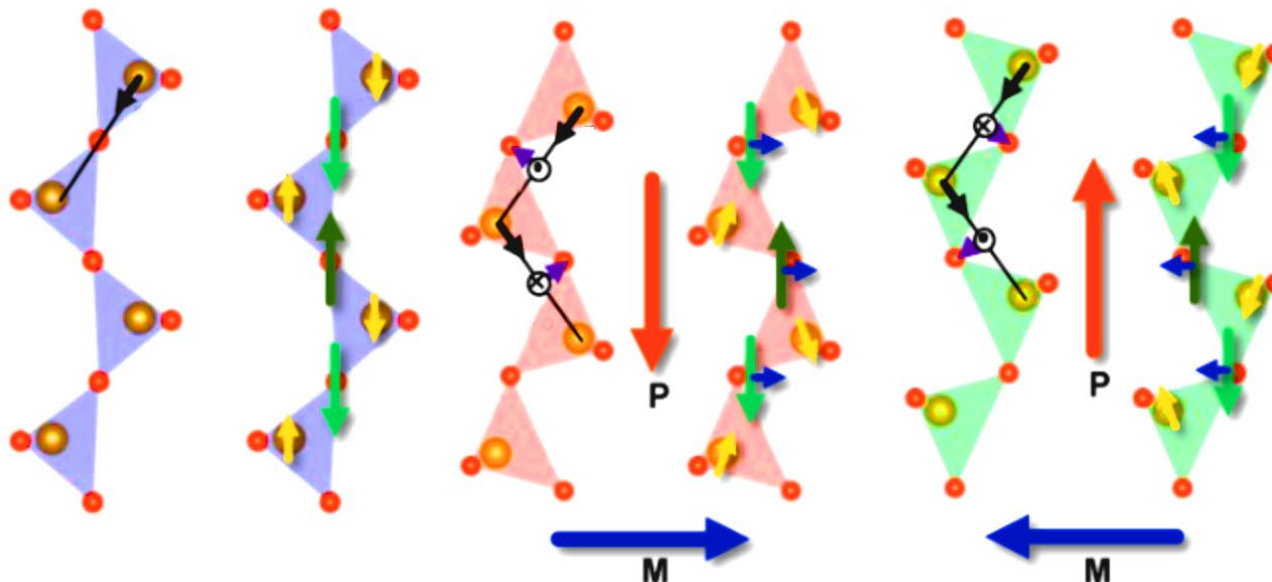
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A Room-Temperature Ferroelectric Ferromagnet in a 1D Tetrahedral Chain Network

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ブラウンミラライト型 $\text{SrFeO}_{2.5}$ エピタキシャル薄膜の1次元 FeO_4 四面体鎖における室温強誘電・強磁性を見出した。Ferroelectricity and coupled ferromagnetism in a 1D FeO_4 tetrahedral chain network of a brownmillerite $\text{SrFeO}_{2.5}$ epitaxial thin film are presented. The result provides a new paradigm for designing low-dimensional MO_x networks, which is expected to benefit the realization of macroscopic ferro-ordering materials including ferroelectric ferromagnets.