

망간 도핑 BiFeO₃ 물질에 대한 자기정전효과 연구
(The study on Magnetocapacitance Effect of Mn-doped BiFeO₃)

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We will report the magnetoelectric properties of a rhombohedrally distorted perovskite BiFe_{0.7}Mn_{0.3}O₃. An anomaly of dielectric permittivity is detected and it seems to be related to the enhanced thermal fluctuation around antiferromagnetic transition temperature which becomes lowered to near room temperature by the substitution of Mn. In addition, we will present non-trivial magnetocapacitance effect at room temperature.