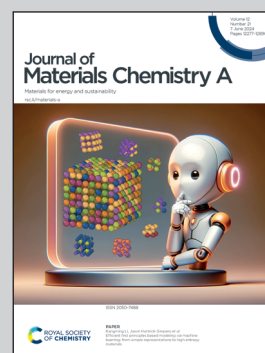


**Showcasing research from Professor Weili Deng's laboratory, School of Materials Science and Engineering, Southwest Jiaotong University, Chengdu, Sichuan, China.**

Insight into piezoelectricity modulation mechanism of ZnO doped with Y ions

Piezoelectric semiconductors hold great promise for energy harvesting and sensing but are severely constrained by piezoelectric screening effect. Doping is a highly preferred strategy to modulate the lattice structure and crystal morphology, we atomically unravelled the modulation mechanism of piezoelectricity in ZnO doped with rare earth ion Y, which is expected to provide guidance for the design of high-performance piezoelectric devices.

**As featured in:**



See Weili Deng *et al.*,  
*J. Mater. Chem. A*, 2024, **12**, 12435.