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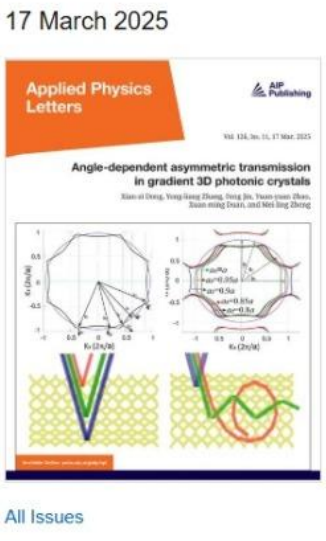

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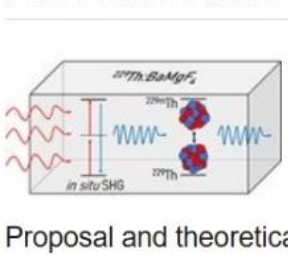
PHOTONICS AND OPTOELECTRONICS



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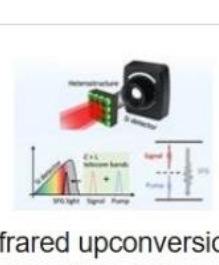

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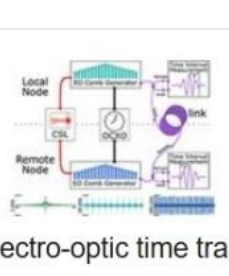

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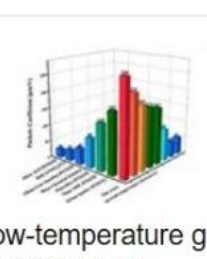

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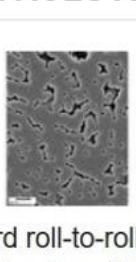

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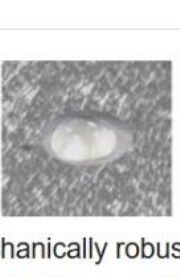

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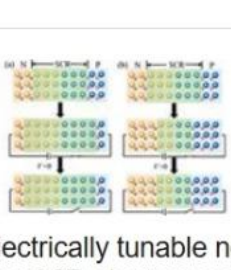

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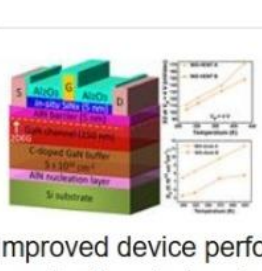

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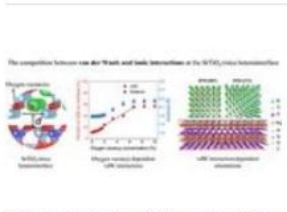

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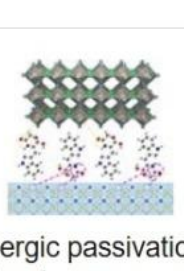

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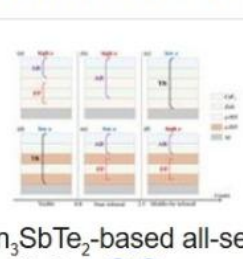

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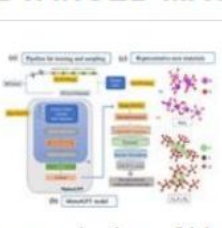

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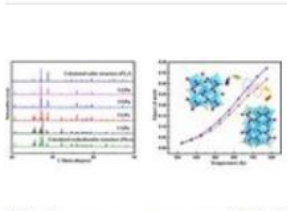

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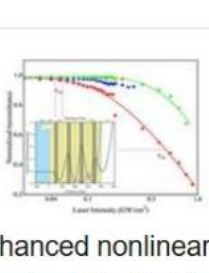

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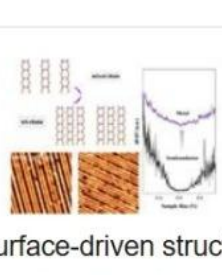

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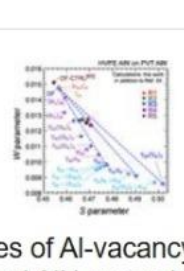

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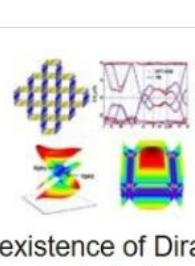

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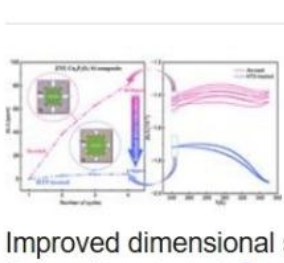

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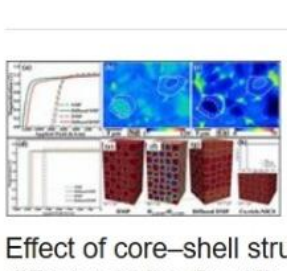

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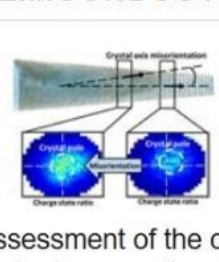

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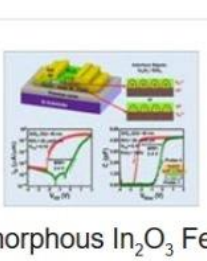

Amorphous In$_2$O$_3$ FeFET-like devices by interface dipoles
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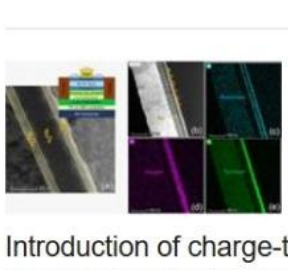

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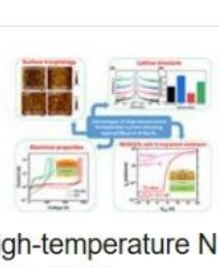

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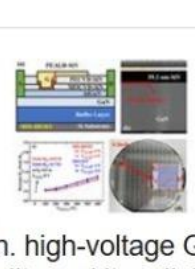

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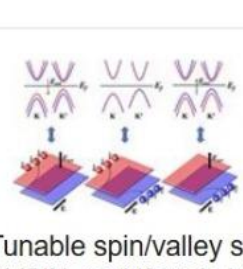

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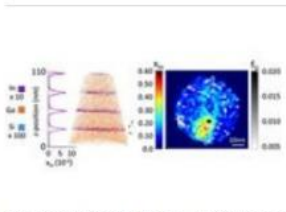

Dopant vs free carrier concentrations in InAs/GaAs semiconductor quantum dots
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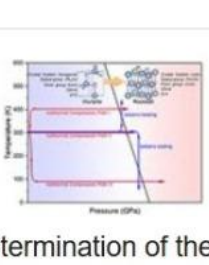

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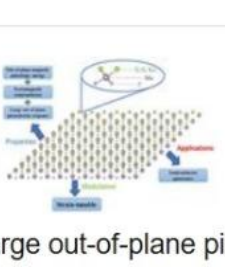

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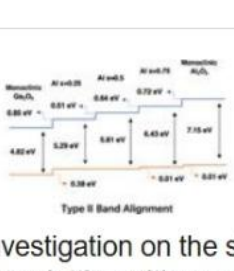

Investigation on the structural and electronic property of monoclinic Al$_2$O$_3$/β-Ga$_2$O$_3$ superlattice with varying layer periods
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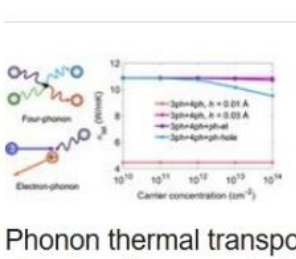

Phonon thermal transport in two-dimensional gallium nitride: Role of higher-order phonon–phonon and phonon–electron scattering
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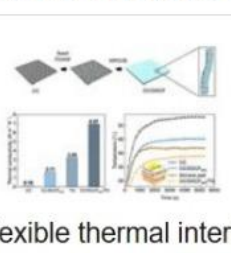
PHONONIC, ACOUSTIC, AND THERMAL PROPERTIES



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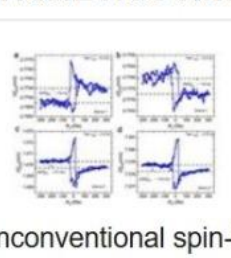

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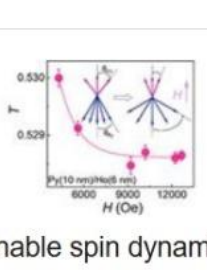

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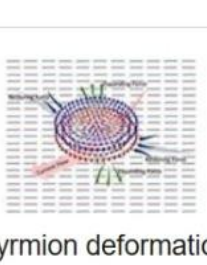

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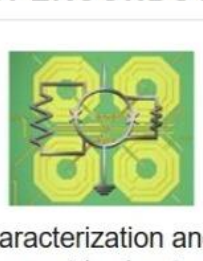
SUPERCONDUCTIVITY AND SUPERCONDUCTING ELECTRONICS



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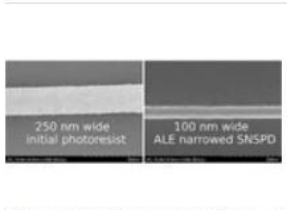

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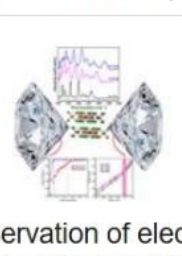

Observation of electronic and structural transitions in two-dimensional ferroelastic semiconductor of Nb$_2$GeTe$_4$ via pressure manipulation
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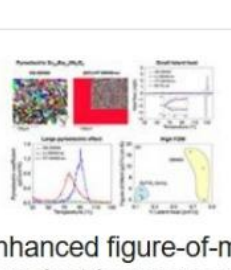

Enhanced figure-of-merit and fatigue resistance of strontium barium niobate for pyroelectric energy conversion
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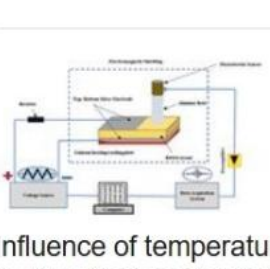

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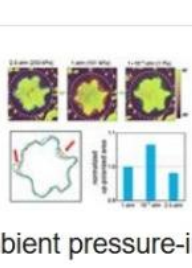

Ambient pressure-induced domain engineering in suspended CuInP$_2$S$_6$ membrane
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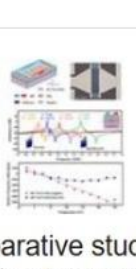

Comparative study of lithium niobate thin films-based surface acoustic wave resonators including temperature characterization
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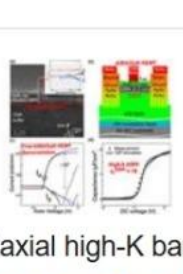

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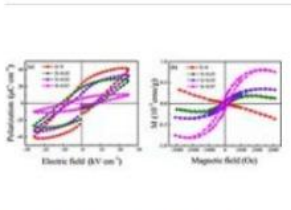

Coexistence of ferroelectricity and ferromagnetism in fluorine-doped barium titanate at room temperature
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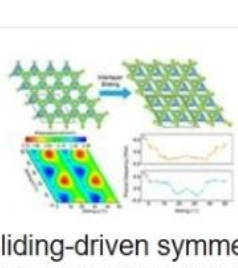

Sliding-driven symmetry breaking induced ferroelectric polarization and phonon property modulation in a ***β***-GaSe bilayer
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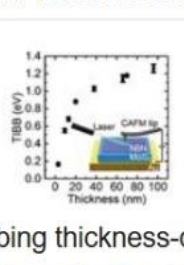

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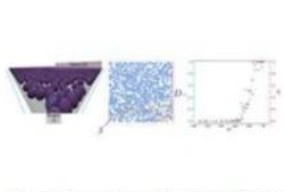

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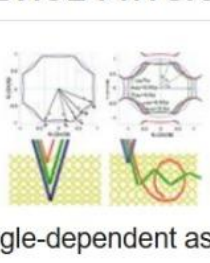

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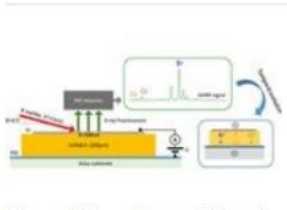

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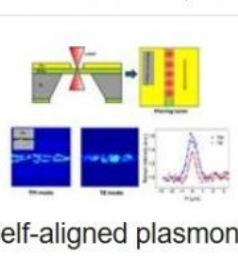

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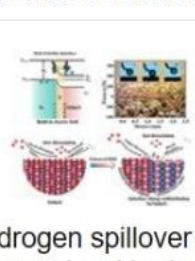

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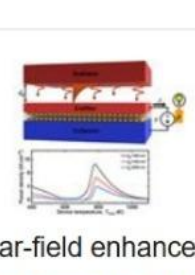

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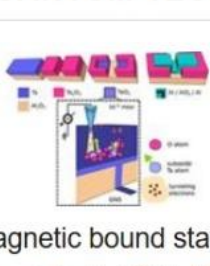

Magnetic bound states embedded in tantalum superconducting thin films
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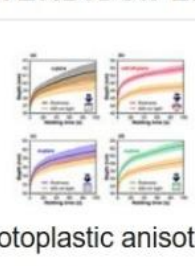

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