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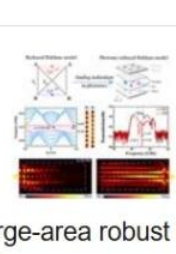
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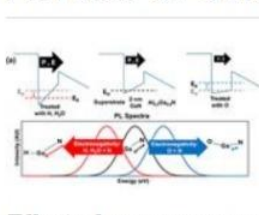
PHYSICS OF SURFACES AND INTERFACES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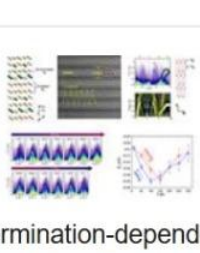
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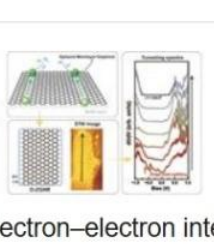
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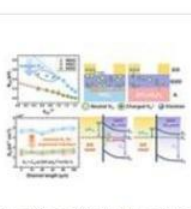
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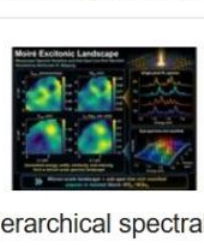
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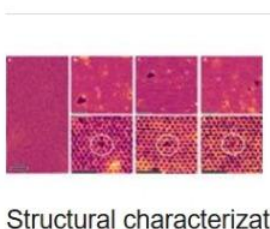
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Three-dimensional visualization of lattice defects in β-Ga$_2$O$_3$ via synchrotron-radiation Borrmann-effect X-ray topo-tomography
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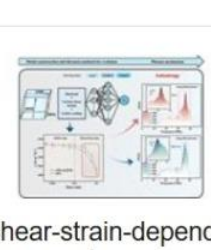
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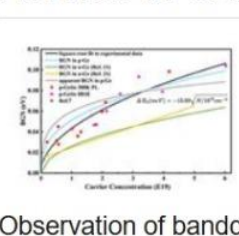
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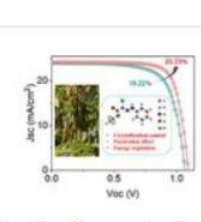
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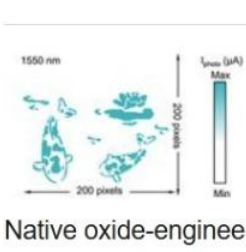
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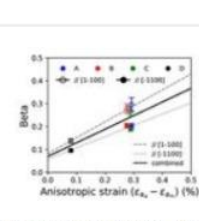
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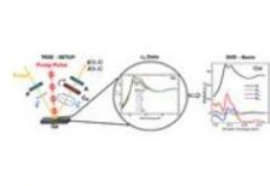
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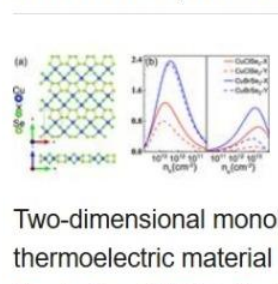
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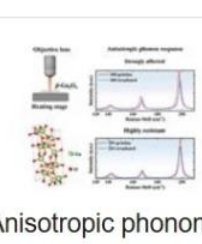
Anisotropic phonon response to electron irradiation in β-Ga$_2$O$_3$ single crystals revealed by temperature-dependent Raman spectroscopy
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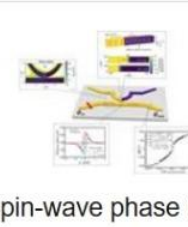
Spin-wave phase modulation using magnetic domain walls in dipolarly coupled structures for non-volatile magnonic computation
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All-optical switching in CoFeB-based artificial ferrimagnets
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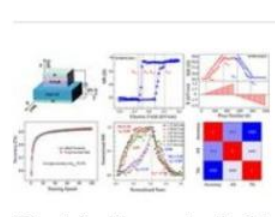
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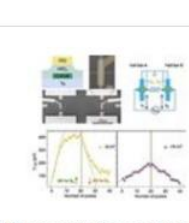
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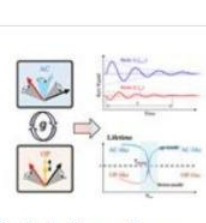
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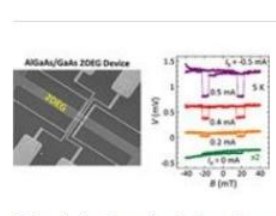
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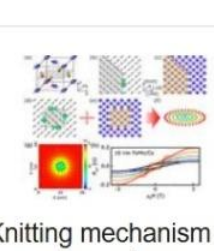
Knitting mechanism of skyrmions from interfacial magnetic anisotropies in γ-FeMn/Co bilayer films
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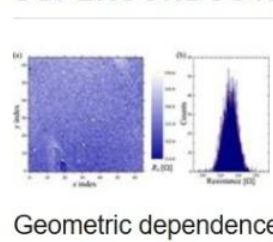
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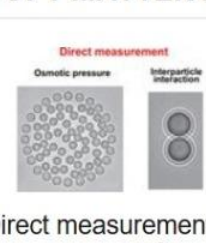
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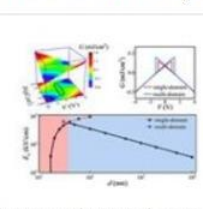
DIELECTRICS, FERROELECTRICS, AND MULTIFERROICS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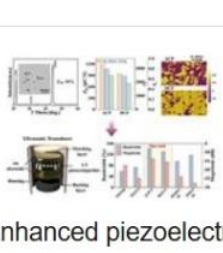
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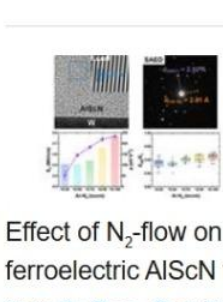
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LOW-DIMENSIONAL AND TOPOLOGICAL PHYSICS

Low-temperature growth of two-dimensional InP nanosheets for optoelectronic applications
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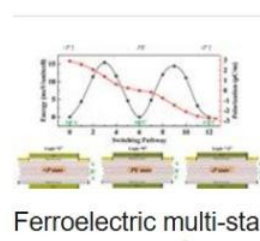
Ferroelectric multi-stability and electrically switchable Rashba effect in few-layer M$_2$CO$_2$ (M = Ti, Zr, Hf)
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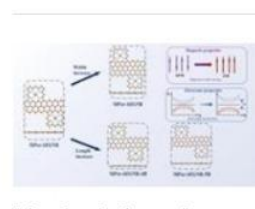
Manipulation of magnetism and electronic structure of graphene nanoribbons via porphyrin serration
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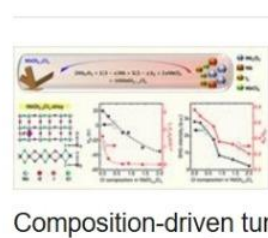
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Higher-order topological phase in planar hexacoordinate X$_2$Y monolayers (X = Cu, Ag, or Au; Y = Si, Ge, Sn, or Pb)
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ELECTRONICS AND OPTOELECTRONICS

Light-induced polarization effect in SrTiO$_3$
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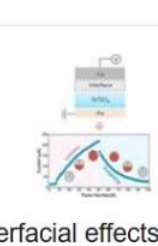
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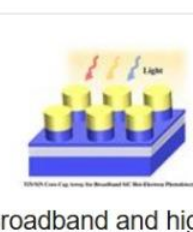
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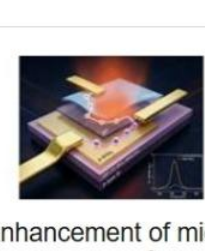
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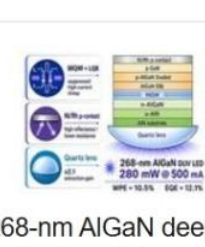
268-nm AlGaN deep-ultraviolet LEDs on AlN substrates with 280 mW output power and wall-plug efficiency above 10% at 500 mA
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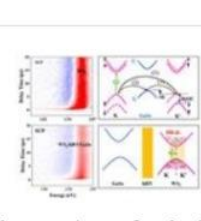
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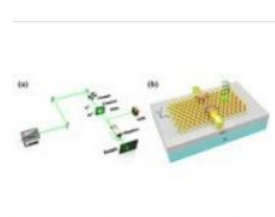
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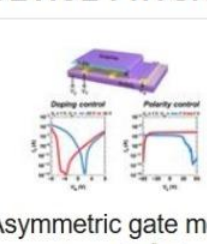
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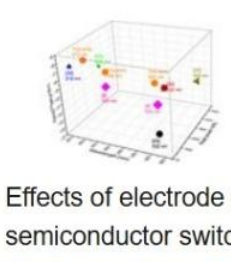
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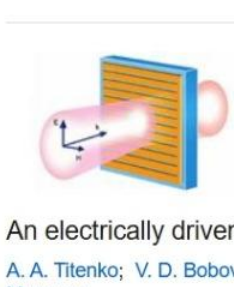
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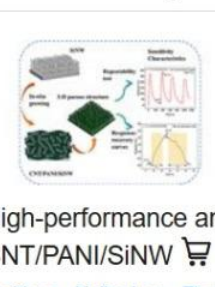
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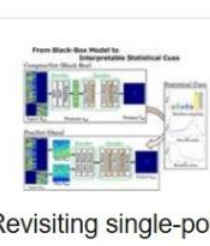
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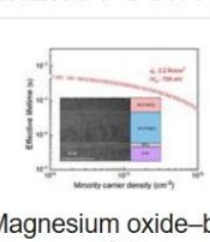
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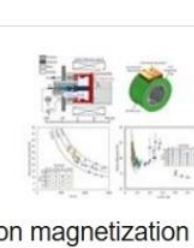
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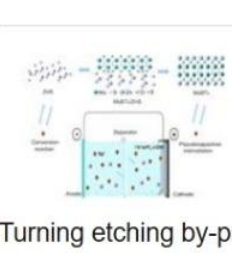
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