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Light management using photonic structures towards high-index perovskite optoelectronics: fundamentals, designing, and applications

Light management is crucial to high-performance multifunctional perovskite optoelectronics. Photonic structures afford robust means to manipulate photons by these optical modes, including antireflection, scattering, resonance, and photonic crystals. The collective advantages of enhanced light trapping, light extraction, light modulation, and colorful, semi-transparent, polarization-sensitive, 3D non-planar, integrated devices can be achieved by designing structured perovskite optoelectronics.

As featured in:



See Yan Zhan, Xiaotian Hu,
Huizeng Li *et al.*,
Energy Environ. Sci., 2023, **16**, 4135.