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Colloidal perovskite nanocrystals offer exceptional color purity and efficiency but have long been limited by poor operational stability. Vivid multicolor light waves illustrate bright, stable emission from perovskite nanocrystals protected by a hierarchical shell. This interfacial design suppresses degradation and maintains color purity during operation, enabling efficient and operationally stable light sources with strong commercial viability for high-resolution displays and optoelectronic applications. See pages 238 and 266. Credit: Yue Zhao, Qingsen Zeng, and Tae-Woo Lee



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