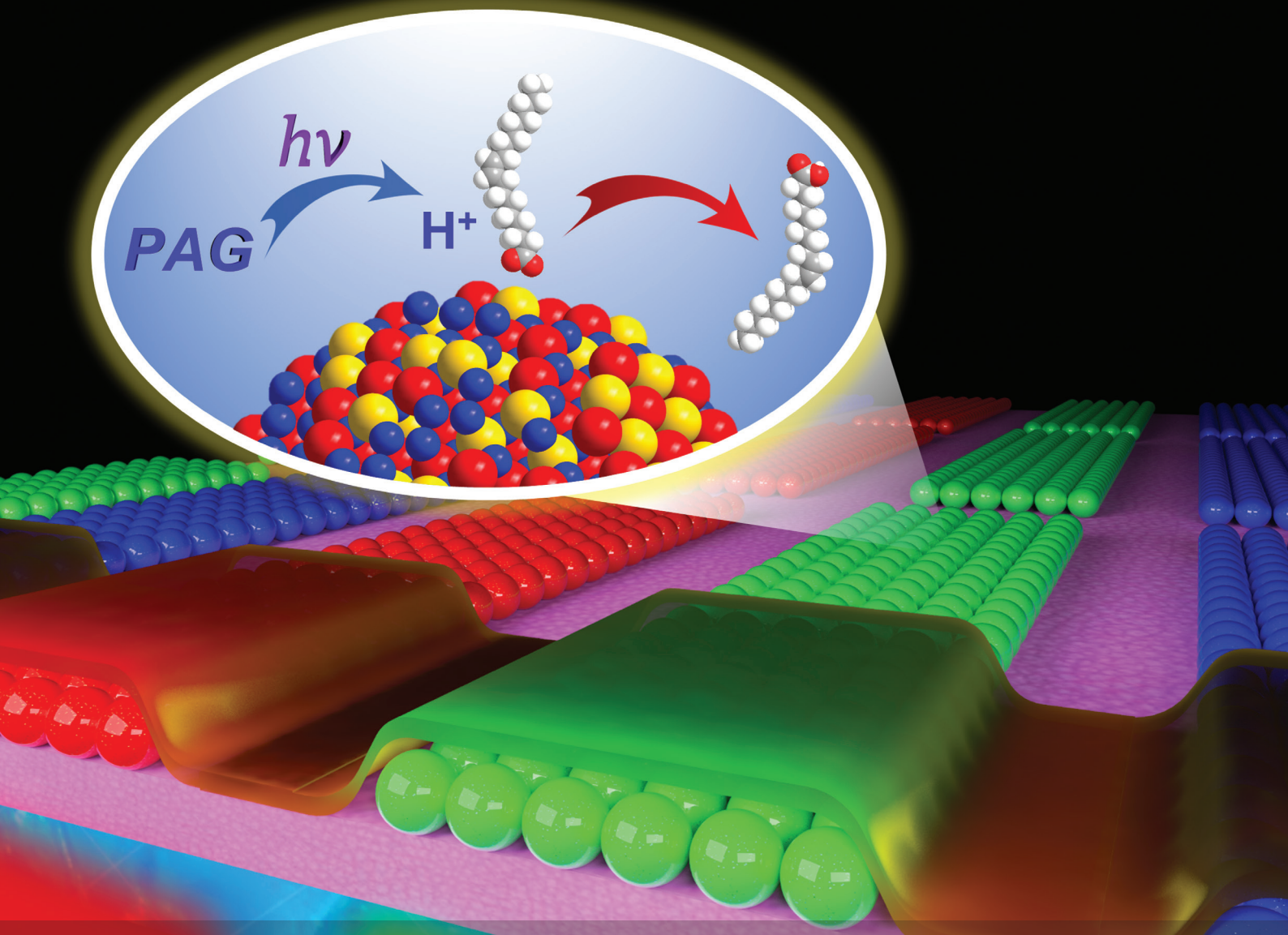
ADVANCED MATERIALS



In article number 2003805, Dmitri V. Talapin and co-workers demonstrate photoresist-free, high-resolution optical patterning of quantum dot (QD) light-emitting diodes by using photoacid generators that induce photochemical reactions and in situ ligand exchange in QD films. Uniform electroluminescence patterns of QDs are produced with feature size down to 1.5 μm while preserving the structural, optical, and electronic properties of the patterned QDs. This advanced patterning method can boost the realization of not only QD electroluminescence displays but also other integrated optoelectronic devices using colloidal QDs.

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OPTICAL PATTERNING