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Control of Photo- and Electro-generated Excited States of Colloidal Quantum Dots XIAOGANG PENG, Zhejiang Univ — Colloidal semiconductor nanocrystals (quantum dots) as solution-processible photo- and electro-excited emitters are promising and may impact many industrial sectors. Both photoluminescence and electroluminescence are based on generation and relaxation of the excited states. Thus, properties of excited states should be the key for design, synthesis, understanding, and applications of emitters. Specifically, as promising emissive materials, colloidal quantum dots rely heavily on their excited-state properties, instead of solely the ground-state properties.

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