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Exhibitor Introduction	The Fraunhofer Institute for Applied Polymer Research IAP has been active in organic electronic research, focusing on applications in OLEDs, OTFT, OPV, sensors, and actuators. The main focus is on synthesis of novel materials with improved optoelectronic properties as well as in the device design and manufacture. Quantum Dots (QDs) are a new class of nanomaterials in which optical properties can be tuned by adjusting the particle size. These unique properties enable QDs to be used in various applications, for example, as luminescent materials in QD-LEDs and displays and as converting material for lighting applications. Additionally, environmentally friendly cadmium-free synthesis methods are being explored. Fraunhofer IAP's concentration is on solution processability which can be manufactured by area or digital printing techniques like inkjet and EHDJet.	
Exhibit Description	Fraunhofer IAP has developed a method to provide very stable indium phosphide (InP) and cadmium selenide (CdSe) QDs covering a wide spectral range from green to red with a high quantum yield, low FWHM and high stability in organic and aqueous phases or other matrices.	

Exhibit Product	High-performance QD-LEDs and color converting of QDs based on InP nanoparticles.