

# iMiD 2022

The 22nd International Meeting on Information Display  
August 23-26, 2022 / BEXCO, BUSAN, KOREA



Company Name	Fraunhofer IAP	Company Logo
Address	Geiselbergstrasse 69, 14476 Potsdam	
Division Director	Dr. Armin Wedel	
Website	<a href="http://www.iap.fraunhofer.de">www.iap.fraunhofer.de</a>	
E-mail	<a href="mailto:Armin.wedel@iap.fraunhofer.de">Armin.wedel@iap.fraunhofer.de</a>	
Telephone	+49 331 568 1910	
Fax	+49 331 568 3910	

## 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 application. 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.

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<b>Exhibit Description</b>	Fraunhofer IAP has developed a method to provide very stable indium phosphide (InP) 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.
<b>Exhibit Product</b>	Developing the high-performance QD-LEDs based on InP-based QDs is quite important to bring QD-LEDs into the future market.