


# iMiD 2024

The 24th International Meeting on Information Display  
August 20-23, 2024 / ICC Jeju, Jeju, Korea



| Company Name           | Fraunhofer IAP  | Company Logo  |
|------------------------|---|---|
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| Exhibitor Introduction | <p>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 electrohydrodynamic (EHD)-Jet.</p> |   |
| Exhibit Description    | <p>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.</p>   |   |

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| <b>Exhibit Product</b> | High-performance QD-LEDs and color converting of QDs based on InP nanoparticles. Printed QD-LED demonstrators. |
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