



Advanced Displays: OLED, QLED, and Beyond

Guest Editors:

Dr. Youngkyoo Kim

Organic Nanoelectronics
Laboratory, KNU Institute for
Nanophotonics Applications
(KINPA), Department of Chemical
Engineering, School of Applied
Chemical Engineering,
Kyungpook National University,
Daegu 41566, Republic of Korea

Dr. Laurent Canale

LAPLACE (Laboratoire Plasma et
Conversion d'Energie), Université
de Toulouse, Toulouse, France

Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

OLEDs, which are ultrathin, flexible, and transparent, have been studied and successfully commercialized for smart phones, television sets, etc. Despite these successes, organic materials and devices still face many challenges. Considering the current structure of active-matrix (AM) OLED displays, both OLED units and TFTs are better to unite for durable displays for flexible and rollable applications.

In addition to OLEDs, quantum dot-based light-emitting devices (QLEDs) have attracted keen interest because inorganic quantum dots (QDs) can change emission colors via size control. Particular attention has focused on the stable nature of inorganic QDs, which can overcome the stability issue of OLEDs. However, the shape factor of QDs poses various hurdles during QLED fabrication. Therefore, in-depth studies should be conducted toward achieving the commercialization of genuine QLEDs.

New ideas can generate advanced displays beyond OLEDs and QLEDs, which can be realized in the future.

This Special Issue aims to publish valuable research works (materials and devices) in the field of advanced displays including OLEDs, QLEDs, new light-emitting devices, transistors, etc.





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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

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Electronics Editorial Office
MDPI, St. Alban-Anlage 66
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