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IOPscience

# ディスプレイ技術

## ディプレイ技術のイノベーションはIOPscienceとともに

IOPscienceは御社の革新的で重要な研究開発になくてはならないリソースです。イノベーションを促進し、競争力を維持し、利益を生み出すべき研究を見つけ出すことができるでしょう

**ディスプレイ技術の主な内容:**

- AR & VR
- 量子ドット
- マイクロLED
- AI
- ウェアラブル・エレクトロニクス
- センサー
- 照明および固体照明
- 有機エレクトロニクスおよび有機ELディスプレイ(OLED)
- 液晶
- フレキシブル・エレクトロニクス
- 酸化物TFT
- グラフェンおよび2D材料
- QLED
- IGZO

### ディスプレイコミュニティとの連携

**当社の有名な編集委員が出版物の品質保証のために連携を行っています:**

- **Kazuaki Kurihara**
  KIOXIA Corporation, Editor
  *Japanese Journal of Applied Physics*
- **Stefan Filipp**
  IBM Research, Zurich, Switzerland
  Executive editorial board, *Materials for Quantum Technology™*
- **John Vajo**
  HRL Laboratories LLC, USA
  Editorial board, *Nanotechnology™ and Nano Futures™*
- **Aniruddh Jagdish Khanna**
  Applied Materials Inc., CA, USA
  Technical editor, *ECS Journal of Solid State Science and Technology*
- **François Blateyron**
  Digital Surf, France
  Commissioning board, *Surface Topography: Metrology and Properties™*
- **N Jain**
  IBM Research, CA, USA
  Advisory panel, *Journal of Physics D: Applied Physics™*

### 商業用ディスプレイ特許のサポート

- **Samsung Display** Method of manufacturing a display panel with a sacrificial protective film (US 11205769 B2)
- **IBM** Layered material based quantum light emitting device (US 10903396 B1)
- **Hitachi** Silicon-Based Quantum Dot Device (EP 3225587 B1)
- **Universal Display** Organic electroluminescent materials and devices (US 11192910 B2)
- **Corning** Apparatuses and methods for laser processing transparent workpieces using non-axisymmetric beam spots (US 11130701 B2)
- **Samsung Display** Organic light emitting diode display and manufacturing method thereof (US 11189681 B2)
- **Apple** Electronic devices with concave displays (US 10931802 B2)
- **Samsung Electronics** Vertical cavity surface emitting laser including meta structure reflector and optical device including the vertical cavity surface emitting laser (US 10916916 B2)

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## 世界でトップレベルのディスプレイ企業による研究を特集

- Solution process manufacture of a simple, multifunctional flexible sensor based on capacitance measurement
  **Samsung Display, Korea**
- 16 x 8 quantum dot array operation at cryogenic temperatures
  **Hitachi, Japan**
- Promotion Effect by Organic Compounds on Dissolution of an Iodine Film Formed by Electrochemical Oxidation of Iodide Ions in an Aqueous Solution
  **Hitachi, Japan**
- A high transmittance and fast response in-plane switching liquid crystal display with the zero-azimuth anchoring layers the electrodes
  **LG Japan Lab Inc**
- Surface nanostructuring of alkali-aluminosilicate Gorilla display glass substrates using a maskless process
  **Corning, USA**

## 最近の特別号

- Hexagonal Boron Nitride
  *2D Materials*™
- Advanced Nanomaterials for Energy, Environmental Science and Optoelectronic Devices
  *Nanotechnology*
- Femtosecond and Ultrafast Laser Spectroscopy and Imaging
  *Journal of Optics*™
- Photoferroelectrics and Related Phenomena
  *Journal of Physics: Condensed Matter*™
- Liquid and Amorphous Metals
  *Journal of Physics: Condensed Matter*
- Recent Developments in Theory, Materials, and Applications of Luminescence
  *ECS Journal of Solid State Science and Technology*

## ディスプレイに関するホットな話題

- GaAs surface passivation for InAs/GaAs quantum dot based nanophotonic devices
- Roadmap on emerging hardware and technology for machine learning
- Characterization techniques of ion bombardment damage on electronic devices during plasma processing—plasma process-induced damage
- Demonstration of ultra-small (<10 μm) 632 nm red InGaN micro-LEDs with useful on-wafer external quantum efficiency (>0.2%) for mini-displays. Virtual reality and augmented reality displays: advances and future perspectives.
- Inkjet printed organic light-emitting diodes employing organometal-halide perovskite as hole transport layer
- An efficient and facile method to develop defect-free OLED displays.
- Spread characteristics of OCR lamination for flexible OLED display process with flat and curved substrates
- Microfluidic multicolor display by juxtapositional color mixing with a pattern of primary color pixels
- Virtual reality and augmented reality displays: advances and future perspectives


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