

半導体

半導体技術のイノベーションはIOPscienceとともに

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IOPscience は御社が半導体業界に革新や進化をもたらし、業界を導いていくために必要な内容を提供します。

半導体の主な内容:

- NANDフラッシュ
- シリコン
- 電界
- 薄膜
- GaN
- エッチング
- 走査型電子顕微鏡
- FinFET
- プラズマ
- エピタキシー
- DRAM
- 抵抗スイッチング
- メモリ
- グラフェン
- MEMS
- 量子回路
- CMOS
- ナノワイヤ
- 人工知能

半導体コミュニティとの連携

当社の著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：

- **Eddy Simeon**
IMEC, Leuven, Belgium
Editorial board, *Semiconductor Science and Technology*[™]
- **Luigi Colombo**
Texas Instruments Incorporated, Dallas, TX, USA
Editorial board, *2D Materials*[™]
- **Richard Buttery**
General Atomics, USA
Editorial board, *Plasma Physics and Controlled Fusion*[™]
- **L Lin**
Sandisk, CA, USA
Advisory panel, *Journal of Physics D: Applied Physics*[™]
- **Koji Ishibashi**
Advanced Device Laboratory, RIKEN, Japan
Editor-in-Chief, *Journal of Physics D: Applied Physics*
- **Fabio Stefanini**
Meta Reality Labs, USA
Editorial Board, *Neuromorphic Computing and Engineering*[™]
- **Masaya Notomi**
NTT Basic Research Laboratories, Japan
Editor, *Japanese Journal of Applied Physics and Applied Physics Express*
- **Kazuaki Kurihara**
KIOXIA Corporation
Editor, *Japanese Journal of Applied Physics and Applied Physics Express*
- **Y Hua**
Intel Corporation, CA, USA
Advisory panel, *Journal of Physics D: Applied Physics*
- **Tzeng-Yow "Victor" Lin**
Industrial Technology Research Institute, Taiwan,
Commissioning board, *Surface Topography: Metrology and Properties*[™]
- **Franz Laermer**
Robert Bosch GmbH, Germany
Editorial board, *Journal of Micromechanics and Microengineering*[™]

世界でトップレベルの半導体企業による研究を特集

- Precision of bit slicing with in-memory computing based on analog phase-change memory crossbars
IBM Research Europe, Switzerland and IBM Research Almaden, USA
- Scaling behavior of ferroelectric FET with reduction in number of domains in ferroelectric layer
Applied Materials Inc, United States
- Time-resolved measurement of radical populations in extreme-ultraviolet-light-induced hydrogen plasma
Samsung Electronics Co., Ltd., Korea
- Cryogenic operation of NanoBridge at 4K for controlling qubit
NanoBridge Semiconductor, Inc., Japan
- Low-temperature synthesis of high-quality graphene by controlling the carbon-hydrogen ratio of the precursor
Taiwan Semiconductor Manufacturing Company (TSMC), Taiwan

最近の特別号

- Wide-bandgap semiconductors and applications
Journal of Physics D: Applied Physics
- GaN technology for next generation power devices
Semiconductor Science and Technology™
- Piezoelectric MEMS
Journal of Micromechanics and Microengineering™
- Nanowires 2021–2022
Nanotechnology™
- Neuromorphic Devices and Applications
Semiconductor Science and Technology
- Nanoscale Processes on Semiconductor Surfaces
Journal of Physics: Condensed Matter™
- Solid State Devices and Materials
Japanese Journal of Applied Physics
- Semiconductor Wafer Bonding: Science, Technology, and Applications
ECS Journal of Solid State Science and Technology

半導体に関するホットな話題

- Challenges and prospects of nanosized silicon anodes in lithium-ion batteries
- Low-temperature processed beta-phase In_2Se_3 ferroelectric semiconductor thin film transistors
- Raman spectroscopy of colloidal semiconductor nanocrystals
- Recent progress in ferromagnetic semiconductors and spintronics devices
- Electrical conductivity enhancement of transparent silver nanowire films on temperature-sensitive flexible substrates using intense pulsed ion beam
- Tendency of crystal orientation rotation toward stable {001} <100> during lateral crystal growth of Si thin film sandwiched by SiO_2
- Fabrication of GaN cantilever on GaN substrate by photo-electrochemical etching

世界トップクラスの革新的な半導体企業が IOPscience を購読しています。

 **MARUZEN-YUSHODO**

【お問合せ・ご注文】
丸善雄松堂株式会社 [学術情報ソリューション事業部 企画開発統括部]
〒105-0022 東京都港区海岸1-9-18 国際浜松町ビル
e-mail: e-support@maruzen.co.jp
TEL 03-6367-6114 FAX 03-6367-6160



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