

半導体

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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

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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*[™]
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Editor-in-Chief, *Journal of Physics D: Applied Physics*
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Editorial Board, *Neuromorphic Computing and Engineering*[™]
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Advisory panel, *Journal of Physics D: Applied Physics*
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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 $\{001\} \langle 100 \rangle$ during lateral crystal growth of Si thin film sandwiched by SiO_2
- Fabrication of GaN cantilever on GaN substrate by photo-electrochemical etching

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