

ISSN 1063-7826

CODEN: SMICES

SEMICONDUCTORS

Editor-in-Chief
Vadim P. Sirkeli

Pleiades
Publishing Group

Over
50
years
in the service of
science and education

<https://pleiades.online>
<https://link.springer.com>

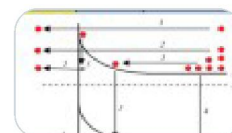


PLEIADES GROUP OF COMPANIES

Distributed by **SPRINGER NATURE**

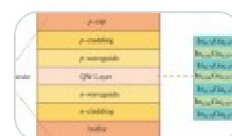
10 articles in this issue

Modeling and Analysis of Temperature-Dependent I - V Characteristics in Ti/6H-SiC Schottky Diodes



OriginalPaper | 12 November 2025 | Pages: 1247 - 1259

Design and Performance Study of 1.65 μm AlGaInAs/InP Symmetric Multi-Quantum Well Semiconductor Laser Epitaxial Structure



OriginalPaper | 12 November 2025 | Pages: 1260 - 1265

High-Performance BGaN/GaN HEMT Design with Si₃N₄ Passivation for RF and Microwave Applications



OriginalPaper | 12 November 2025 | Pages: 1266 - 1278

Design and Test of a 3-Terminal Work-Function Engineered Universal Gate and Modelling of Its Static Performance Metrics



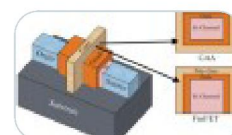
OriginalPaper | 12 November 2025 | Pages: 1279 - 1287

Performance Enhancement of T-gated GaN HEMTs Using Polarization-Graded AlGaIn Back Barrier for High-Frequency Applications



OriginalPaper | 12 November 2025 | Pages: 1288 - 1302

Performance Study of Sub-5 nm FinFET and GAA Structures at Low Temperature



Comparative Analysis of the Commonly used Electron Transporting Layers in High Efficiency Perovskite Solar Cells



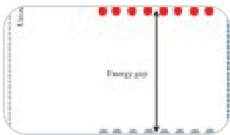
OriginalPaper | 12 November 2025 | Pages: 1316 - 1327

Enhancing Breakdown Voltage and Switching Performance in AlGaN/GaN HEMTs via GaN Cap and Field Plate Co-Design



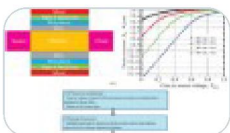
OriginalPaper | 12 November 2025 | Pages: 1328 - 1342

Vigorous Energy Gaps in Organic Semiconductors



OriginalPaper | 12 November 2025 | Pages: 1343 - 1355

Low-Power Analog and RF Performance Analysis of a Nanowire Junctionless TFET with Dual-Metal-Insulator-Semiconductor (DMIS) Structure for Communication Systems



OriginalPaper | 12 November 2025 | Pages: 1356 - 1370
