ISSN 1063-7826 CODEN: SMICES

SEMICONDUCTORS

Pleiades
Publishing Group
over 50
years
In the service of science and education

Editor-in-Chief Vadim P. Sirkeli

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



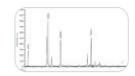
PLEIADES GROUP OF COMPANIES

Distributed by **SPRINGER NATURE**



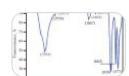
11 articles in this issue

Dielectric and Optical Properties of Sm-Doped TllnS₂ Single Crystals



OriginalPaper | 24 October 2025 | Pages: 1147 - 1158

Structural, Morphological, Optical, and Electrochemical Properties of CoMoO₄ Nanoparticles as Electrode for Supercapacitor Applications



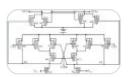
OriginalPaper | 24 October 2025 | Pages: 1159 - 1166

Simple Co-precipitation Synthesis, Effective Photocatalytic Degradation of Rhodamine-B Dye and Supercapacitor Applications of Sr₂V₂O₇ Nanoparticles



OriginalPaper | 24 October 2025 | Pages: 1167 - 1175

Thermal Dynamics of 7 nm FinFET Process Cascode Cross Coupled Double Tail Dynamic Comparator for Future Analog to Digital Converters



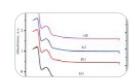
OriginalPaper | 24 October 2025 | Pages: 1176 - 1183

Analysis of Palladium-induced Charges in the Device Characteristics of a TiO₂-based Thin Film Transistor for Gas Sensing Applications

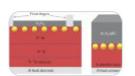


OriginalPaper | 24 October 2025 | Pages: 1184 - 1193

Effects of Sr-doping on Structural, Optical, and Electrical Properties of $NiCr_{2-x}Sr_xO_4$ Nanoparticles Synthesized by Microwave Method

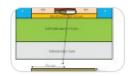


<u>Light Absorption Enhancement in Thin-Film Silicon Solar Cells with</u> Integrated Cu Nanospheres



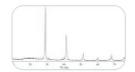
OriginalPaper | 24 October 2025 | Pages: 1204 - 1212

<u>Design Optimization of AlGaN/GaN HEMT Biosensors for Enhanced</u> Biomolecule Sensitivity: Gate Dielectric and Spacing Effects



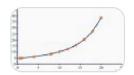
OriginalPaper | 24 October 2025 | Pages: 1213 - 1225

Kinetik Properties of (AgSbTe₂)_{0.8}(PbTe)_{0.2}



OriginalPaper | 24 October 2025 | Pages: 1226 - 1231

Derivation of an Analytical Expression for the Einstein Relation in Organic Semiconductor Thin Films Using the Binomial Expansion Theorem



OriginalPaper | 24 October 2025 | Pages: 1232 - 1236

Super Junction Negative Capacitance AlGaN/GaN HEMT for Ku-band Applications



OriginalPaper | 24 October 2025 | Pages: 1237 - 1245