

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**



Volume 59, Issue 1  
January 2025

Indexed/Abstracted/Referred

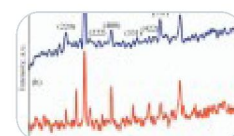
10 articles in this issue

### Investigation on Morphological, Optical and Electrical Properties of Ru doped $V_2O_5$ thin Films and their Application of Photocatalytic Activity



OriginalPaper | 06 March 2025 | Pages: 1 - 13

### Effect of $La^{3+}$ Ions on Structural Morphological and Optical Properties of Spinel $CoFe_2O_4$ Nanoparticles for Photocatalytic and Antimicrobial Applications



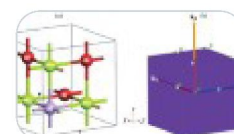
OriginalPaper | 06 March 2025 | Pages: 14 - 23

### Green Synthesis of $Co_3O_4$ and $Co(OH)_2$ Nanoparticles for Supercapacitor Applications



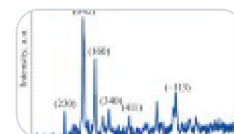
OriginalPaper | 06 March 2025 | Pages: 24 - 36

### Enhancing the Photovoltaic Performance through $Mg_3AsBr_3$ Perovskite using Interface Engineering



OriginalPaper | 06 March 2025 | Pages: 37 - 44

### Simple Co-precipitation Synthesis of Copper Molybdate Nanosheets and their Electrochemical Application

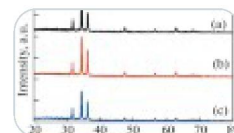


OriginalPaper | 06 March 2025 | Pages: 45 - 52

### Studies on Electrical and Optical properties of $Bi_{12}SiO_{20}$ Synthesized by Wet Route



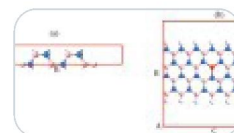
## **The Influence of Bi Doping Concentration on Structural, Dielectric and Optical Properties of Bi-doped ZnO thin Films**



OriginalPaper | 06 March 2025 | Pages: 61 - 69

---

## **Structural Parameters and Elastic Constants of Lithium-doped Boron Nitride Nanoribbons: A First Principle Study**



OriginalPaper | 06 March 2025 | Pages: 70 - 76

---

## **Magnetic Nanoparticle-Polymer Nanocomposites for Enhanced Magnetic Resonance Imaging (MRI) Contrast Agents: A Review**



OriginalPaper | 06 March 2025 | Pages: 77 - 90

---

## **Review on the Recent Developments in Magnetic Nanocomposites for Energy Storage Applications**



OriginalPaper | 06 March 2025 | Pages: 91 - 114

---