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Research Areas

Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Lecturer, Ataturk University, Rektörlük, -, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the performance and stability of self-powered polythiophene-based photodiodes under UV and visible light illumination**
ORHAN Z., KASAPOĞLU A. E., DOĞAN H., DAŞ E.
Sensors and Actuators A: Physical, vol.378, 2024 (SCI-Expanded)
- II. **Electrochromic properties of undoped and Ti-doped MoO₃ converted from vertical nanowall MoS₂ thin films**
Habashyani S., Mobtakeri S., BUDAK H. F., KASAPOĞLU A. E., ÇOBAN Ö., GÜR E.
Electrochimica Acta, vol.498, 2024 (SCI-Expanded)
- III. **Metal Nanoparticles for Simultaneous Use in AC Magnetic Field Hyperthermia and Magnetic Resonance Imaging**
Solak K., Atiş M., KASAPOĞLU A. E., KARAMAN A., MAVİ A.
Journal of Biomedical Materials Research - Part A, 2024 (SCI-Expanded)
- IV. **Hummers' method-assisted liquid-phase exfoliation enables the fabrication of few-layer borophene from bulk boron**
BİNGÖL M. S., YILMAZ M., KASAPOĞLU A. E.
TURKISH JOURNAL OF CHEMISTRY, vol.48, no.2, pp.402-421, 2024 (SCI-Expanded)
- V. **A Comparative Study of the Structural and Optical Properties of ZnS Films Deposited by Spray-Pyrolysis Technique**
Najim A., Hartiti B., Nkuissi H. J. T., Labrim H., Fadili S., ERTUĞRUL M., Thevenin P., BUDAK H. F., KASAPOĞLU A. E.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.58, no.7, 2023 (SCI-Expanded)
- VI. **Effect of growth pressure on sulfur content of RF-magnetron sputtered WS₂ films and thermal oxidation properties of them toward using Pd decorated WO₃ based H₂ gas sensor**
Mobtakeri S., Habashyani S., ÇOBAN Ö., BUDAK H. F., KASAPOĞLU A. E., GÜR E.

Sensors and Actuators B: Chemical, vol.381, 2023 (SCI-Expanded)

- VII. **Solution-Processable Growth and Characterization of Dandelion-like ZnO:B Microflower Structures**
Erat S., Braun A., ÇETİNKAYA S., Yildirimcan S., KASAPOĞLU A. E., Guer E., Harputlu E., OCAKOĞLU K.
CRYSTALS, vol.12, no.1, 2022 (SCI-Expanded)
- VIII. **Influences of thickness and temperature of low temperature GaAs buffer layer on two-step MOVPE grown GaAs/Ge heterostructures**
Demir İ., Kasapoğlu A. E., Budak H. F., Gür E., Elagoz S.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.90, no.2, 2020 (SCI-Expanded)
- IX. **X-ray photoelectron spectroscopy (XPS) and gamma-ray shielding investigation of boro-silicate glasses contained alkali/alkaline modifier**
Kaky K. M., ŞAKAR E., Akbaba U., KASAPOĞLU A. E., Sayyed M. I., GÜR E., Baki S. O., Mahdi M. A.
RESULTS IN PHYSICS, vol.14, 2019 (SCI-Expanded)
- X. **AlGa_N/AlN MOVPE heteroepitaxy: pulsed co-doping SiH₄ and TMIn**
DEMİR İ., KOÇAK Y., KASAPOĞLU A. E., Razeghi M., GÜR E., Elagoz S.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.34, no.7, 2019 (SCI-Expanded)
- XI. **Distributed contact flip chip InGa_N/Ga_N blue LED; comparison with conventional LEDs**
GENÇ M., Sheremet V., Elci M., KASAPOĞLU A. E., ALTUNTAŞ İ., DEMİR İ., EĞİN G., Islamoglu S., GÜR E., MUZAFFEROĞLU N., et al.
SUPERLATTICES AND MICROSTRUCTURES, vol.128, pp.9-13, 2019 (SCI-Expanded)
- XII. **Formation of carbon nanowalls by pulsed filtered cathodic vacuum arc deposition**
ŞENADIM TÜZEMEN E., Kilic M., Zeyrek B. K., KASAPOĞLU A. E., GÜR E., ALAYDİN B. Ö., ESEN M., ESEN R.
Diamond and Related Materials, vol.93, pp.200-207, 2019 (SCI-Expanded)
- XIII. **Valance band properties of MgZnO thin films with increasing Mg content; Phase separation effects**
İSKENDEROĞLU D., Kasapoglu E., GÜR E.
Materials Research Express, vol.6, no.3, 2019 (SCI-Expanded)
- XIV. **Microstructural Evolution of MOVPE Grown Ga_N by the Carrier Gas**
DEMİR İ., ALTUNTAŞ İ., KASAPOĞLU A. E., MOBTAKERİ S., Guer E., Elagoz S.
SEMICONDUCTORS, vol.52, no.16, pp.2030-2038, 2018 (SCI-Expanded)
- XV. **Growth and characterization of InGa_N thin films on Si (111) substrate by RF magnetron sputtering: N₂ gas flow effect**
ERDOĞAN E., KUNDAKÇI M., KASAPOĞLU A. E., GÜR E.
American Journal Of Physics, 2018 (SCI-Expanded)
- XVI. **Gamma and neutron irradiation effects on multi-walled carbon nanotubes**
Akbaba U., KASAPOĞLU A. E., GÜR E.
DIAMOND AND RELATED MATERIALS, vol.87, pp.242-247, 2018 (SCI-Expanded)
- XVII. **Stress evolution of Ge nanocrystals in dielectric matrices**
Bahariqushchi R., RACİTİ R., Kasapoglu A. E., Gur E., Sezen M., Kalay E., MİRABELLA S., AYDINLI A.
NANOTECHNOLOGY, vol.29, no.18, 2018 (SCI-Expanded)
- XVIII. **The effects of two-stage HT-Ga_N growth with different V/III ratios during 3D-2D transition**
ALTUNTAŞ İ., DEMİR İ., KASAPOĞLU A. E., MOBTAKERİ S., GÜR E., Elagoz S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.51, no.3, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **p-Si(100)/InGa_N thin film structure and investigation of its physical properties: N₂ gas flow effect**
ERDOĞAN E., kundakçı M., KASAPOĞLU A. E., GÜR E.
Materials Today: Proceedings, vol.18, pp.1868-1874, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Pulsed MOVPE Growth of High Quality AlGa_N epilayers for Ultraviolet LED Applications**
DEMİR İ., McClintock R., KOÇAK Y., ALTUNTAŞ İ., KASAPOĞLU A. E., GÜR E., ELAGÖZ S., Razeghi M.
European Conference on Laser Optics Photonics, 16 - 17 July 2018
- II. **Growth and Characterization of InGa_N Thin Films on Si (111) Substrate by RF Magnetron Sputtering: N-2 Gas Flow Effect**
Erdogan E., KUNDAKÇI M., KASAPOĞLU A. E., GÜR E.
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
- III. **MBE grown Ga_N Nanowires on Si (111) Substrate Temperature Dependence**
KASAPOĞLU A. E., KOÇAK Y., GÜR E., DOĞAN P.
NanoTr-13, Antalya, Turkey, 22 - 25 October 2017
- IV. **Gamma and Neutron Radiation Effect on Multi-Walled Carbon Nanotubes**
AKBABA U., KASAPOĞLU A. E., GÜR E.
NanoTr-13, Antalya, Turkey, 22 - 25 October 2017
- V. **Excess Nitrogen Effects on Optical, Structural and Morphological Properties of the Sputtered InGa_N Semiconductor**
ERDOĞAN E., KUNDAKÇI M., KASAPOĞLU A. E., GÜR E.
International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET'17 Baku)
Hosted by Azerbaijan Technical University July 12-14, 2017, Baku, Azerbaijan, 12 - 14 July 2017
- VI. **Excess Nitrogen Effects on Optical, Structural and Morphological Properties of the Sputtered InGa_N Semiconductor**
ERDOĞAN E., kundakçı m., KASAPOĞLU A. E., GÜR E.
International Conference on Multidisciplinary, Science, Engineering and Technology (IMESET'17), Baku,
Azerbaijan, 12 - 14 July 2017
- VII. **Structural and Surface Properties of ZnO and ZnO:Fe Thin Films Deposited by Sol-Gel Spin Coating Technique**
KASAPOĞLU A. E., DOĞAN S., TURGUT G., GÜRBULAK B., DUMAN S.
International Congress on Natural and Engineering Sciences, 9 - 15 September 2015
- VIII. **Structural and Surface Properties of ZnO and ZnO:Fe Thin Films Deposited by Sol-Gel Spin Coating Technique,**
KASAPOĞLU A. E., GÜRBULAK B., DOĞAN S., DUMAN S.
International Congress on Natural and Engineering Sciences, 09-13 September, 2015, 9 - 13 September 2015

Metrics

Publication: 33

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H-Index (Scopus): 9