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Biography

C U R R I C U L U M V I T A E

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PERMANENT

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PERSONAL: Born September 15, 1941, Bolnisi, Republic of Georgia

Nationality : Azerbaijani

EDUCATION: Baku State University , Physics Department , 1958-1963

Post-Graduate Studentship - Physico-Technical Institute, USSR Academy of Sciences , Leningrad , 1968-1972

Cand. Sci. Thesis: Physico-Technical Institute, USSR Academy of Sciences , 1972

Thesis Title: " Vibrational Spectrum and Absorption Edge of Solid Solutions on the Basis of InSb "

Doctor Sci. Thesis: Institute of Physics , Azerbaijan Academy of Sciences , 1986

Thesis Title: " Spectroscopy of Optical Vibrational States of A³B⁶-Type Anisotropic Semiconductive Crystals "

PROFESSIONAL

POSITIONS: Research Assistant , Physics Department ,
Baku State University , 1964-1967

Post-Graduate Student , Physico-Technical Institute ,
USSR Academy of Sciences , Leningrad , 1968-1972

Teacher, Senior Teacher , Associate-Professor , Professor ,
Physics Department , Baku State University , 1972-1991

Vice-Dean, Physics Department , Baku State University ,
1989-1991

Visiting Professor , Physics Department ,
Middle East Technical University , Ankara , 1992 - present time

SCIENTIFIC WORK

IN THE FOREIGN

UNIVERSITIES: Institute of Physics II - Solid State Physics ,
University of Regensburg , Regensburg , Germany , 1984

Wihuri Physical Laboratory , University of Turku ,
Turku , Finland , 1991

TOTAL NUMBER OF INTERNATIONAL PUBLICATIONS

(Web of Science, SCI) : **366 papers**

Research Areas

Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Advising Theses

HASANLI N., Low temperature thermoluminescence study of some ternary and quaternary layered structured semiconductors, Doctorate, S.DELİCE(Student), 2016
HASANLI N., Optical and electrical characterization of Ga_{0.75}In_{0.25}Se layered single crystals, Doctorate, M.İşık(Student), 2013
HASANLI N., Optical and electrical transport properties of some quaternary thallium dichalcogenides, Doctorate, İ.Güler(Student), 2011
HASANLI N., Thermally stimulated current study of traps distribution in TiGaSeS layered single crystals, Postgraduate, H.Nasser(Student), 2010
HASANLI N., Optical properties of some quaternary thallium chalcogenides, Doctorate, K.Gökşen(Student), 2008
HASANLI N., Low temperature photoluminescence study in GaS-GaSe layered crystals., Postgraduate, K.Gökşen(Student), 2002

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Nanoindentation study of PbMoO₄ single crystals: mechanical properties and implications for applications**
Isik M., HASANLI N.
PHYSICA SCRIPTA, no.1, 2025 (SCI-Expanded)
- II. **Unveiling the application potential of PbMo_{0.75}W_{0.25}O₄ crystal: Linear and nonlinear optical properties through ellipsometry**
Isik M., HASANLI N.
Physica B: Condensed Matter, vol.694, 2024 (SCI-Expanded)

- III. **Characterization of PbMo_{0.3}W_{0.7}O₄ Crystal: A Potential Material for Photocatalysis and Optoelectronic Applications**
Isik M., HASANLI N.
Crystal Research and Technology, vol.59, no.12, 2024 (SCI-Expanded)
- IV. **Exploring Temperature-Dependent bandgap and Urbach energies in CdTe thin films for optoelectronic applications**
Surucu O., Sürücü G., Hasanli N., Parlak M., Isik M.
Materials Letters, vol.373, 2024 (SCI-Expanded)
- V. **Spectroscopic ellipsometry study of linear and nonlinear optical properties of NaBi(Mo_{0.5}W_{0.5}O₄)₂ crystal**
Isik M., Guler I., HASANLI N., Darvishov N.
Journal of Materials Science: Materials in Electronics, vol.35, no.28, 2024 (SCI-Expanded)
- VI. **Characterization of Bi₁₂SiO₂₀ single crystal: understanding structural and thermal properties**
ALTUNTAŞ G., Isik M., HASANLI N.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.130, no.10, 2024 (SCI-Expanded)
- VII. **Identification of shallow trap centers in InSe single crystals and investigation of their distribution: A thermally stimulated current spectroscopy**
Isik M., HASANLI N.
Optical Materials, vol.156, 2024 (SCI-Expanded)
- VIII. **Revealing the Effects of Defect States on the Nonlinear Absorption Properties of the TlInSe and Tl₂In₂S₃Se Crystals in Near-Infrared Optical Limiting Applications**
Doğan A., KARATAY A., Isik M., YILDIZ E., HASANLI N., ELMALI A.
Crystal Growth and Design, vol.24, no.17, pp.6981-6990, 2024 (SCI-Expanded)
- IX. **Optical characterization of NaBi(MoO₄)₂ crystal by spectroscopic ellipsometry**
Guler I., Isik M., HASANLI N.
Applied Physics A: Materials Science and Processing, vol.130, no.9, 2024 (SCI-Expanded)
- X. **Thermoluminescence dose response and kinetic parameters of Gd-doped ZnO nanoparticles**
Isik M., Yildirim T., Guner M., Hasanli N.
PHYSICA SCRIPTA, vol.99, no.7, 2024 (SCI-Expanded)
- XI. **Revealing photoluminescence and nonlinear optical absorption characteristics of PbMo_{0.75}W_{0.25}O₄ single crystal for optical limiting applications**
Doğan A., Karatay A., Isik M., Yıldız E., Hasanli N., Elmalı A.
Physica Scripta, vol.99, no.5, 2024 (SCI-Expanded)
- XII. **Temperature-dependent tuning of band gap of Fe₃O₄ nanoparticles for optoelectronic applications**
Delice S., Isik M., HASANLI N.
Chemical Physics Letters, vol.840, 2024 (SCI-Expanded)
- XIII. **Revealing defect centers in PbWO₄ single crystals using thermally stimulated current measurements**
Isik M., HASANLI N.
JOURNAL OF APPLIED PHYSICS, vol.135, no.8, 2024 (SCI-Expanded)
- XIV. **Characterization of linear and nonlinear optical properties of NaBi(WO₄)₂ crystal by spectroscopic ellipsometry**
Isik M., Guler I., HASANLI N.
Optical Materials, vol.148, 2024 (SCI-Expanded)
- XV. **Growth and optical properties of (Na_{0.5}Bi_{0.5})(Mo_{1-x}W_x)O₄ (x = 0.25) single crystal: a potential candidate for optoelectronic devices**
Guler I., Isik M., HASANLI N.
Optical and Quantum Electronics, vol.56, no.1, 2024 (SCI-Expanded)
- XVI. **Exploring the linear and nonlinear optical behavior of (TlInS₂)_{0.75}(TlInSe₂)_{0.25}: Insights from ellipsometry measurements**

- Isik M., Guler I., Hasanli N.
Physica B: Condensed Matter, vol.669, 2023 (SCI-Expanded)
- XVII. **Temperature-dependent optical properties of TiO₂ nanoparticles: a study of band gap evolution**
Isik M., Delice S., HASANLI N.
Optical and Quantum Electronics, vol.55, no.10, 2023 (SCI-Expanded)
- XVIII. **Growth and temperature-tuned band gap characteristics of LiGd(MoO₄)₂ single crystals for optoelectronic applications**
Delice S., Isik M., HASANLI N., Darvishov N., Bagiev V.
Ceramics International, vol.49, no.15, pp.25840-25847, 2023 (SCI-Expanded)
- XIX. **Temperature-dependent current-voltage characteristics of p-GaSe_{0.75}Si_{0.25}/n-Si heterojunction**
Isik M., Surucu O., HASANLI N.
Applied Physics A: Materials Science and Processing, vol.129, no.8, 2023 (SCI-Expanded)
- XX. **Tunable nonlinear absorption and optical limiting behavior of NaBi(Mo_xW_{1-x}O₄)₂ single crystals with ratio of Molybdenum/Tungsten**
PEPE Y., YILDIZ E., Isik M., KARATAY A., Gasanly N., ELMALI A.
PHYSICA SCRIPTA, vol.98, no.7, 2023 (SCI-Expanded)
- XXI. **Temperature dependence of band gap of CeO₂ nanoparticle photocatalysts**
Isik M., Delice S., HASANLI N.
Physica E: Low-Dimensional Systems and Nanostructures, vol.150, 2023 (SCI-Expanded)
- XXII. **Excitation wavelength dependent nonlinear absorption mechanisms and optical limiting properties of Bi₁₂SiO₂₀ single crystal**
Doğan A., KARATAY A., Isik M., PEPE Y., HASANLI N., ELMALI A.
Optical Materials, vol.140, 2023 (SCI-Expanded)
- XXIII. **Spectroscopic ellipsometry studies of optical properties of TlIn(S_{0.25}Se_{0.75})₂ crystal**
Guler I., Isik M., HASANLI N.
Applied Physics A: Materials Science and Processing, vol.129, no.6, 2023 (SCI-Expanded)
- XXIV. **Optical characterization of (TlInS₂)_{0.5}(TlInSe₂)_{0.5} crystal by ellipsometry: linear and optical constants for optoelectronic devices**
Guler I., Isik M., HASANLI N.
Journal of Materials Science: Materials in Electronics, vol.34, no.17, 2023 (SCI-Expanded)
- XXV. **Growth and characterization of NaBi(Mo_{0.5}W_{0.5}O₄)₂ single crystal: A promising material for optoelectronic applications**
Isik M., Guler I., HASANLI N.
Materials Science in Semiconductor Processing, vol.156, 2023 (SCI-Expanded)
- XXVI. **Growth and characterization of PbMo_{0.75}W_{0.25}O₄ single crystal: A promising material for optical applications**
Isik M., HASANLI N., Darvishov N., Bagiev V.
Materials Chemistry and Physics, vol.296, 2023 (SCI-Expanded)
- XXVII. **Growth and temperature tuned band gap characteristics of NaBi(MoO₄)₂ single crystal**
Isik M., Guler I., Hasanli N.
Physica Scripta, vol.98, no.2, 2023 (SCI-Expanded)
- XXVIII. **Linear and nonlinear optical properties of Bi₁₂GeO₂₀ single crystal for optoelectronic applications**
Isik M., HASANLI N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.153, 2023 (SCI-Expanded)
- XXIX. **Wavelength dependence of the nonlinear absorption performance and optical limiting in Bi₁₂TiO₂₀ single crystal**
PEPE Y., Isik M., KARATAY A., HASANLI N., ELMALI A.
Journal of Luminescence, vol.253, 2023 (SCI-Expanded)
- XXX. **Structural and optical properties of (TlInS₂)_{0.75}(TlInSe₂)_{0.25} thin films deposited by thermal evaporation**
Guler I., Isik M., HASANLI N.

Journal of Materials Science: Materials in Electronics, vol.34, no.3, 2023 (SCI-Expanded)

- XXXI. **Shallow trapping centers in Bi₁₂GeO₂₀ single crystals by thermally stimulated current measurements**
Delice S., Isik M., HASANLI N.
Materials Today Communications, vol.33, 2022 (SCI-Expanded)
- XXXII. **The role of defects on the transition from saturable absorption to nonlinear absorption of Bi₁₂GeO₂₀ single crystal under increasing laser excitation**
PEPE Y., Isik M., KARATAY A., YILDIZ E., HASANLI N., ELMALI A.
Journal of Luminescence, vol.251, 2022 (SCI-Expanded)
- XXXIII. **Nonlinear optical absorption characteristics of PbMoO₄ single crystal for optical limiter applications**
PEPE Y., Isik M., KARATAY A., HASANLI N., ELMALI A.
Optical Materials, vol.133, 2022 (SCI-Expanded)
- XXXIV. **Investigation of linear and nonlinear optical properties of PbWO₄ single crystal**
Delice S., Isik M., HASANLI N.
Optical Materials, vol.133, 2022 (SCI-Expanded)
- XXXV. **Temperature effects on optical characteristics of thermally evaporated CuSbSe₂ thin films for solar cell applications**
Surucu O., Isik M., Terlemozoglu M., Bektas T., Hasanli N., Parlak M.
Optical Materials, vol.133, 2022 (SCI-Expanded)
- XXXVI. **Structural, morphological and temperature-tuned bandgap characteristics of CuS nano-flake thin films**
Isik M., Terlemozoglu M., Hasanli N., Parlak M.
Physica E: Low-Dimensional Systems and Nanostructures, vol.144, 2022 (SCI-Expanded)
- XXXVII. **Linear and nonlinear optical characteristics of PbMoO₄ single crystal for optoelectronic applications**
Delice S., Isik M., Hasanli N.
Journal of Materials Science: Materials in Electronics, vol.33, no.28, pp.22281-22290, 2022 (SCI-Expanded)
- XXXVIII. **Linear and nonlinear optical characteristics of Bi₁₂SiO₂₀ single crystals**
Isik M., HASANLI N.
Optical Materials, vol.131, 2022 (SCI-Expanded)
- XXXIX. **Spectroscopic ellipsometry characterization of PbWO₄ single crystals**
Delice S., Isik M., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, vol.131, 2022 (SCI-Expanded)
- XL. **Temperature-tuned optical bandgap of Al-doped ZnO spin coated nanostructured thin films**
Isik M., HASANLI N.
Materials Letters, vol.321, 2022 (SCI-Expanded)
- XLI. **A method to predict temperature derivatives of the bulk modulus: A case study for HfB₂**
Özkan H., Delice S., HASANLI N.
Physica Scripta, vol.97, no.8, 2022 (SCI-Expanded)
- XLII. **Investigation of optical characteristics of PbMoO₄ single crystals by spectroscopic ellipsometry**
Delice S., Isik M., HASANLI N., Darvishov N., Bagiev V.
Optik, vol.262, 2022 (SCI-Expanded)
- XLIII. **Study of the structural and optical properties of thallium gallium disulfide (TlGaS₂) thin films grown via thermal evaporation**
Isik M., KARATAY A., Ech-Chergui A., HASANLI N.
Physica Scripta, vol.97, no.7, 2022 (SCI-Expanded)
- XLIV. **Thermoluminescence characteristics of GaSe and Ga₂Se₃ single crystals**
Isik M., SARIGÜL N., HASANLI N.
Journal of Luminescence, vol.246, 2022 (SCI-Expanded)
- XLV. **Temperature dependent bandgap in NaBi(WO₄)₂ single crystals**
Isik M., HASANLI N., Darvishov N., Bagiev V.
Optik, vol.258, 2022 (SCI-Expanded)

- XLVI. **Structural and temperature-tuned band gap energy characteristics of PbMoO₄ single crystals**
Isik M., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, vol.126, 2022 (SCI-Expanded)
- XLVII. **Thermoluminescence properties and trapping parameters of TlGaS₂ single crystals**
Delice S., Isik M., HASANLI N.
Journal of Luminescence, vol.244, 2022 (SCI-Expanded)
- XLVIII. **Effect of temperature on band gap of PbWO₄ single crystals grown by Czochralski method**
Isik M., Hasanlı N., Darvishov N. H., Bagiev V. E.
PHYSICA SCRIPTA, vol.97, no.4, 2022 (SCI-Expanded)
- XLIX. **Determination of mechanical properties of Bi₁₂TiO₂₀ crystals by nanoindentation**
Isik M., HASANLI N., Rustamov F. A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.140, 2022 (SCI-Expanded)
- L. **Structural and optical characteristics of thermally evaporated TlGaSe₂ thin films**
Isik M., KARATAY A., HASANLI N.
Optical Materials, vol.124, 2022 (SCI-Expanded)
- LI. **Temperature-dependent optical characteristics of sputtered NiO thin films**
Terlemезoglu M., Surucu O., Isik M., Hasanli N., Parlak M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.1, 2022 (SCI-Expanded)
- LII. **Defect assisted nonlinear absorption and optical limiting in amorphous TlGaS₂(1-x)Se₂(x) (0 ≤ x ≤ 1) thin films**
ÜNLÜ B. A., KARATAY A., Yildiz E. A., Dincbay T., ÜNVER H., Gasanly N., ELMALI A.
JOURNAL OF LUMINESCENCE, vol.241, 2022 (SCI-Expanded)
- LIII. **Investigation of defect levels in Bi₁₂SiO₂₀ single crystals by thermally stimulated current measurements**
Isik M., Delice S., HASANLI N.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- LIV. **Trapping centers in Bi₁₂TiO₂₀ single crystals by thermally stimulated current**
Isik M., Delice S., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, vol.122, 2021 (SCI-Expanded)
- LV. **Experimental and theoretical investigation of the mechanical characteristics of sillenite compound: Bi₁₂GeO₂₀**
SÜRÜCÜ G., Isik M., Gencer A., HASANLI N.
Journal of Alloys and Compounds, vol.882, 2021 (SCI-Expanded)
- LVI. **Effect of thallium (Tl) substitution for indium (In) on ellipsometric characteristics of TlInSe₂ single crystals**
Isik M., HASANLI N.
Materials Science in Semiconductor Processing, vol.134, 2021 (SCI-Expanded)
- LVII. **The effect of Zn concentration on the structural and optical properties of Cd_{1-x}Zn_xS nanostructured thin films**
Isik M., Terlemезoglu M., Isik S., Erturk K., HASANLI N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.20, pp.25225-25233, 2021 (SCI-Expanded)
- LVIII. **Evaluation of mechanical properties of Bi₁₂SiO₂₀ sillenite using first principles and nanoindentation**
Isik M., Sürücü G., Gencer A., Hasanlı N.
PHILOSOPHICAL MAGAZINE, vol.101, no.20, pp.2200-2215, 2021 (SCI-Expanded)
- LIX. **Electronic, optical and thermodynamic characteristics of Bi₁₂SiO₂₀ sillenite: First principle calculations**
Isik M., SÜRÜCÜ G., Gencer A., HASANLI N.
Materials Chemistry and Physics, vol.267, 2021 (SCI-Expanded)
- LX. **Structural and temperature-tuned bandgap characteristics of thermally evaporated beta-In₂S₃ thin films**

Surucu O., Isik M., Terlemozoglu M., Hasanli N., Parlak M.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.12, pp.15851-15856, 2021 (SCI-Expanded)

- LXI. **First principles study of Bi₁₂GeO₂₀: Electronic, optical and thermodynamic characterizations**
Isik M., Sürücü G., Gencer A., Hasanli N.
Materials Today Communications, vol.27, 2021 (SCI-Expanded)
- LXII. **Defect characterization in Bi₁₂GeO₂₀ single crystals by thermoluminescence**
Delice S., Isik M., SARIGÜL N., HASANLI N.
JOURNAL OF LUMINESCENCE, vol.233, 2021 (SCI-Expanded)
- LXIII. **Optical and structural characteristics of electrodeposited Cd 1-xZnxS nanostructured thin films**
Erturk K., Isik M., Terlemozoglu M., HASANLI N.
Optical Materials, vol.114, 2021 (SCI-Expanded)
- LXIV. **Investigation of traps distribution in GaS single crystals by thermally stimulated current measurements**
Delice S., Isik M., HASANLI N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.125, 2021 (SCI-Expanded)
- LXV. **Temperature effects on optical characteristics of CdSe thin films**
Gullu H. H., Isik M., Surucu O., Hasanli N., Parlak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.123, 2021 (SCI-Expanded)
- LXVI. **Spectroscopic ellipsometry study of Bi₁₂TiO₂₀ single crystals**
Isik M., Hasanli N., Darvishov N. H., Bagiev V. E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.7019-7025, 2021 (SCI-Expanded)
- LXVII. **Structural and optical properties of thermally evaporated (GaSe)_{0.75}-(GaS)_{0.25} thin films**
Isik M., Emir C., HASANLI N.
OPTIK, vol.230, 2021 (SCI-Expanded)
- LXVIII. **Optical and Nanomechanical Properties of Ga₂(Se₃)Single Crystals and Thin Films**
Işık M., Emir C., Gullu H. H., Gasanly N.
JOM, vol.73, no.2, pp.558-565, 2021 (SCI-Expanded)
- LXIX. **Observation of in situ enhanced crystallization, negative resistance effect and photosensitivity in Ti₂InGaSe₄ crystals**
Qasrawi A. F., Irshaid T. M. A., HASANLI N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.122, 2021 (SCI-Expanded)
- LXX. **Temperature-tuned bandgap characteristics of Bi₁₂TiO₂₀ sillenite single crystals**
Isik M., Delice S., HASANLI N., Darvishov N. H., Bagiev V. E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.1, pp.1316-1322, 2021 (SCI-Expanded)
- LXXI. **Temperature-dependent optical characteristics of sputtered Ga-doped ZnO thin films**
Gullu H. H., Isik M., Hasanli N., Parlak M.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.263, 2021 (SCI-Expanded)
- LXXII. **Optical characteristics of Bi₁₂SiO₂₀ single crystals by spectroscopic ellipsometry**
Isik M., Delice S., Nasser H., HASANLI N., Darvishov N. H., Bagiev V. E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.120, 2020 (SCI-Expanded)
- LXXIII. **Vibrational modes in (TiGaS₂)(x)-(TiGaSe₂)(1-x)mixed crystals by Raman measurements: compositional dependence of the mode frequencies and line-shapes**
Isik M., Terlemozoglu M., HASANLI N., Babayeva R. F.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.17, pp.14330-14335, 2020 (SCI-Expanded)
- LXXIV. **Investigation of structural and optical characteristics of thermally evaporated Ga₂Se₃ thin films**
Isik M., Gasanly N.

VACUUM, vol.179, 2020 (SCI-Expanded)

- LXXV. **TL and OSL studies on gallium sulfide (GaS) single crystals**
Isik M., YÜKSEL M., TOPAKSU M., Gasanly N.
JOURNAL OF LUMINESCENCE, vol.225, 2020 (SCI-Expanded)
- LXXVI. **Temperature-tuned band gap properties of MoS₂ thin films**
Surucu O., Isik M., Gasanly N., Terlemezoglu M., Parlak M.
MATERIALS LETTERS, vol.275, 2020 (SCI-Expanded)
- LXXVII. **Investigation of band gap energy versus temperature for SnS₂ thin films grown by RF-magnetron sputtering**
Isik M., Gullu H. H., Terlemezoglu M., Surucu O. B., PARLAK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, vol.591, 2020 (SCI-Expanded)
- LXXVIII. **Temperature dependent band gap in SnS₂xSe(2-2x) (x=0.5) thin films**
Delice S., Isik M., Gullu H. H., Terlemezoglu M., Surucu O. B., Gasanly N., Parlak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.114, 2020 (SCI-Expanded)
- LXXIX. **The effect of Ga/In ratio and annealing temperature on the nonlinear absorption behaviors in amorphous TlGa_xIn(1-x)S₂ (0 ≤ x ≤ 1) chalcogenide thin films**
Ünlü B. A., Karatay A., Yüksek M., Ünver H., Gasanly N., Elmali A.
Optics and Laser Technology, vol.128, 2020 (SCI-Expanded)
- LXXX. **Thermoluminescence characteristics of Bi₁₂SiO₂₀ single crystals**
Isik M., SARIGÜL N., Gasanly N.
JOURNAL OF LUMINESCENCE, vol.224, 2020 (SCI-Expanded)
- LXXXI. **Structural and temperature-tuned optical characteristics of Bi₁₂GeO₂₀ sillenite crystals**
Delice S., Isik M., Gasanly N., Darvishov N., Bagiev V.
CHINESE JOURNAL OF PHYSICS, vol.66, pp.422-429, 2020 (SCI-Expanded)
- LXXXII. **Influence of temperature on optical properties of electron-beam-evaporated ZnSe thin film**
Gullu H. H., Isik M., Gasanly N., PARLAK M.
PHYSICA SCRIPTA, vol.95, no.7, 2020 (SCI-Expanded)
- LXXXIII. **Investigation of optical properties of Bi₁₂GeO₂₀ sillenite crystals by spectroscopic ellipsometry and Raman spectroscopy**
Isik M., Delice S., Gasanly N., Darvishov N. H., Bagiev V. E.
CERAMICS INTERNATIONAL, vol.46, no.9, pp.12905-12910, 2020 (SCI-Expanded)
- LXXXIV. **Structural and optical properties of thermally annealed thallium indium disulfide thin films**
Guler I., Gasanly N.
THIN SOLID FILMS, vol.704, 2020 (SCI-Expanded)
- LXXXV. **Temperature-dependent material characterization of CuZnSe₂ thin films**
Gullu H. H., Surucu O., Terlemezoglu M., Isik M., Ercelebi C., Gasanly N., Parlak M.
THIN SOLID FILMS, vol.701, 2020 (SCI-Expanded)
- LXXXVI. **Synthesis and temperature-tuned band gap characteristics of magnetron sputtered ZnTe thin films**
Isik M., Gullu H. H., PARLAK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, vol.582, 2020 (SCI-Expanded)
- LXXXVII. **Temperature -dependent optical and electrical characterization of Cu-Ga-S thin films and their diode characteristics on n-Si**
Gullu H. H., Isik M., Gasanly N., PARLAK M.
OPTIK, vol.208, 2020 (SCI-Expanded)
- LXXXVIII. **Thermoluminescence characterization of (Ga₂Se₃)(0.25) - (Ga₂S₃)(0.75) single crystal compounds**
Isik M., Guler I., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.108, 2020 (SCI-Expanded)
- LXXXIX. **Temperature-tuned band gap characteristics of InSe layered semiconductor single crystals**
Isik M., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.107, 2020 (SCI-Expanded)
- XC. **Optical constants and critical point energies of (AgInSe₂)(0.75)-(In₂Se₃)(0.25) single crystals**

Isik M., Nasser H., Guseinov A., Gasanly N.

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