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

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Professor , Doctor

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

Nationality : Azerbaijanian

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**

Araştırma Alanları

Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler

Yönetilen Tezler

HASANLI N., Low temperature thermoluminescence study of some ternary and quaternary layered structured semiconductors, Doktora, S.DELİCE(Öğrenci), 2016

HASANLI N., Ga_{0.75}In_{0.25}Se katmanlı tek kristallerinin optiksel ve elektriksel karakterizasyonları, Doktora, M.İşık(Öğrenci), 2013

HASANLI N., Bazı dördü talyum ikili-kalkojenlerin optik ve elektriksel taşıma özellikleri, Doktora, İ.Güler(Öğrenci), 2011

HASANLI N., TiGaSeS tek kristallerde tuzak dağılımlarının ısılyarılmış akım çalışması, Yüksek Lisans, H.Nasser(Öğrenci), 2010

HASANLI N., Bazı dördü talyum çalkogenitlerin optik özellikleri, Doktora, K.Gökşen(Öğrenci), 2008

HASANLI N., Low temperature photoluminescence study in GaS-GaSe layered crystals, Yüksek Lisans, K.Gökşen(Öğrenci), 2002

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **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, cilt.694, 2024 (SCI-Expanded)
- II. **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, cilt.373, 2024 (SCI-Expanded)
- III. **Characterization of Bi₁₂SiO₂₀ single crystal: understanding structural**

and thermal properties

ALTUNTAŞ G., Isik M., HASANLI N.

APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.130, sa.10, 2024 (SCI-Expanded)

- IV. **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, cilt.35, sa.28, 2024 (SCI-Expanded)
- V. **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, cilt.156, 2024 (SCI-Expanded)
- VI. **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, cilt.24, sa.17, ss.6981-6990, 2024 (SCI-Expanded)
- VII. **Optical characterization of NaBi(MoO₄)₂ crystal by spectroscopic ellipsometry**
Guler I., Isik M., HASANLI N.
Applied Physics A: Materials Science and Processing, cilt.130, sa.9, 2024 (SCI-Expanded)
- VIII. **Thermoluminescence dose response and kinetic parameters of Gd-doped ZnO nanoparticles**
Isik M., Yildirim T., Guner M., Hasanlı N.
PHYSICA SCRIPTA, cilt.99, sa.7, 2024 (SCI-Expanded)
- IX. **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., Hasanlı N., Elmalı A.
Physica Scripta, cilt.99, sa.5, 2024 (SCI-Expanded)
- X. **Temperature-dependent tuning of band gap of Fe₃O₄ nanoparticles for optoelectronic applications**
Delice S., Isik M., HASANLI N.
Chemical Physics Letters, cilt.840, 2024 (SCI-Expanded)
- XI. **Revealing defect centers in PbWO₄ single crystals using thermally stimulated current measurements**
Isik M., HASANLI N.
JOURNAL OF APPLIED PHYSICS, cilt.135, sa.8, 2024 (SCI-Expanded)
- XII. **Characterization of linear and nonlinear optical properties of NaBi(WO₄)₂ crystal by spectroscopic ellipsometry**
Isik M., Guler I., HASANLI N.
Optical Materials, cilt.148, 2024 (SCI-Expanded)
- XIII. **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, cilt.56, sa.1, 2024 (SCI-Expanded)
- XIV. **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, 2024 (SCI-Expanded)
- XV. **Exploring the linear and nonlinear optical behavior of (TlInS₂)_{0.75}(TlInSe₂)_{0.25}: Insights from ellipsometry measurements**
Isik M., Guler I., Hasanlı N.
Physica B: Condensed Matter, cilt.669, 2023 (SCI-Expanded)
- XVI. **Temperature-dependent optical properties of TiO₂ nanoparticles: a study of band gap evolution**
Isik M., Delice S., HASANLI N.
Optical and Quantum Electronics, cilt.55, sa.10, 2023 (SCI-Expanded)

- XVII. **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, cilt.49, sa.15, ss.25840-25847, 2023 (SCI-Expanded)
- XVIII. **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, cilt.129, sa.8, 2023 (SCI-Expanded)
- XIX. **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, cilt.98, sa.7, 2023 (SCI-Expanded)
- XX. **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, cilt.34, sa.17, 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, cilt.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, cilt.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, cilt.129, sa.6, 2023 (SCI-Expanded)
- XXIV. **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, cilt.156, 2023 (SCI-Expanded)
- XXV. **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, cilt.296, 2023 (SCI-Expanded)
- XXVI. **Growth and temperature tuned band gap characteristics of NaBi(MoO₄)₂ single crystal**
Isik M., Guler I., Hasanlı N.
Physica Scripta, cilt.98, sa.2, 2023 (SCI-Expanded)
- XXVII. **Linear and nonlinear optical properties of Bi₁₂GeO₂₀ single crystal for optoelectronic applications**
Isik M., HASANLI N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.153, 2023 (SCI-Expanded)
- XXVIII. **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, cilt.253, 2023 (SCI-Expanded)
- XXIX. **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, cilt.34, sa.3, 2023 (SCI-Expanded)
- XXX. **Shallow trapping centers in Bi₁₂GeO₂₀ single crystals by thermally stimulated current measurements**
Delice S., Isik M., HASANLI N.
Materials Today Communications, cilt.33, 2022 (SCI-Expanded)

- XXXI. **Investigation of linear and nonlinear optical properties of PbWO₄ single crystal**
Delice S., Isik M., HASANLI N.
Optical Materials, cilt.133, 2022 (SCI-Expanded)
- XXXII. **Nonlinear optical absorption characteristics of PbMoO₄ single crystal for optical limiter applications**
PEPE Y., Isik M., KARATAY A., HASANLI N., ELMALI A.
Optical Materials, cilt.133, 2022 (SCI-Expanded)
- XXXIII. **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, cilt.133, 2022 (SCI-Expanded)
- XXXIV. **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, cilt.251, 2022 (SCI-Expanded)
- XXXV. **Linear and nonlinear optical characteristics of PbMoO₄ single crystal for optoelectronic applications**
Delice S., Isik M., Hasanlı N.
Journal of Materials Science: Materials in Electronics, cilt.33, sa.28, ss.22281-22290, 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, cilt.144, 2022 (SCI-Expanded)
- XXXVII. **Spectroscopic ellipsometry characterization of PbWO₄ single crystals**
Delice S., Isik M., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, cilt.131, 2022 (SCI-Expanded)
- XXXVIII. **Linear and nonlinear optical characteristics of Bi₁₂SiO₂₀ single crystals**
Isik M., HASANLI N.
Optical Materials, cilt.131, 2022 (SCI-Expanded)
- XXXIX. **Temperature-tuned optical bandgap of Al-doped ZnO spin coated nanostructured thin films**
Isik M., HASANLI N.
Materials Letters, cilt.321, 2022 (SCI-Expanded)
- XL. **A method to predict temperature derivatives of the bulk modulus: A case study for HfB₂**
Özkan H., Delice S., HASANLI N.
Physica Scripta, cilt.97, sa.8, 2022 (SCI-Expanded)
- XLI. **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, cilt.97, sa.7, 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, cilt.262, 2022 (SCI-Expanded)
- XLIII. **Thermoluminescence characteristics of GaSe and Ga₂Se₃ single crystals**
Isik M., SARIGÜL N., HASANLI N.
Journal of Luminescence, cilt.246, 2022 (SCI-Expanded)
- XLIV. **Temperature dependent bandgap in NaBi(WO₄)₂ single crystals**
Isik M., HASANLI N., Darvishov N., Bagiev V.
Optik, cilt.258, 2022 (SCI-Expanded)
- XLV. **Thermoluminescence properties and trapping parameters of TlGaS₂ single crystals**
Delice S., Isik M., HASANLI N.
Journal of Luminescence, cilt.244, 2022 (SCI-Expanded)
- XLVI. **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, cilt.97, sa.4, 2022 (SCI-Expanded)
- XLVII. **Structural and temperature-tuned band gap energy characteristics of PbMoO₄ single crystals**
Isik M., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, cilt.126, 2022 (SCI-Expanded)
- XLVIII. **Determination of mechanical properties of Bi₁₂TiO₂₀ crystals by nanoindentation**
Isik M., HASANLI N., Rustamov F. A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.140, 2022 (SCI-Expanded)
- XLIX. **Structural and optical characteristics of thermally evaporated TlGaSe₂ thin films**
Isik M., KARATAY A., HASANLI N.
Optical Materials, cilt.124, 2022 (SCI-Expanded)
- L. **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, cilt.241, 2022 (SCI-Expanded)
- LI. **Temperature-dependent optical characteristics of sputtered NiO thin films**
Terlemezoglu M., Surucu O., Isik M., Hasanli N., Parlak M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.128, sa.1, 2022 (SCI-Expanded)
- LII. **Trapping centers in Bi₁₂TiO₂₀ single crystals by thermally stimulated current**
Isik M., Delice S., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, cilt.122, 2021 (SCI-Expanded)
- LIII. **Investigation of defect levels in Bi₁₂SiO₂₀ single crystals by thermally stimulated current measurements**
Isik M., Delice S., HASANLI N.
PHYSICA SCRIPTA, cilt.96, sa.12, 2021 (SCI-Expanded)
- LIV. **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, cilt.882, 2021 (SCI-Expanded)
- LV. **Effect of thallium (Tl) substitution for indium (In) on ellipsometric characteristics of TlInSe₂ single crystals**
Isik M., HASANLI N.
Materials Science in Semiconductor Processing, cilt.134, 2021 (SCI-Expanded)
- LVI. **The effect of Zn concentration on the structural and optical properties of Cd_{1-x}Zn_xS nanostructured thin films**
Isik M., Terlemezoglu M., Isik S., Erturk K., HASANLI N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.20, ss.25225-25233, 2021 (SCI-Expanded)
- LVII. **Evaluation of mechanical properties of Bi₁₂SiO₂₀ sillenite using first principles and nanoindentation**
Isik M., Sürücü G., Gencer A., Hasanlı N.
PHILOSOPHICAL MAGAZINE, cilt.101, sa.20, ss.2200-2215, 2021 (SCI-Expanded)
- LVIII. **Electronic, optical and thermodynamic characteristics of Bi₁₂SiO₂₀ sillenite: First principle calculations**
Isik M., SÜRÜCÜ G., Gencer A., HASANLI N.
Materials Chemistry and Physics, cilt.267, 2021 (SCI-Expanded)
- LIX. **First principles study of Bi₁₂GeO₂₀: Electronic, optical and thermodynamic characterizations**
Isik M., Sürücü G., Gencer A., Hasanlı N.
Materials Today Communications, cilt.27, 2021 (SCI-Expanded)
- LX. **Structural and temperature-tuned bandgap characteristics of thermally evaporated beta-In₂S₃ thin films**
Surucu O., Isik M., Terlemezoglu M., Hasanlı N., Parlak M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.12, ss.15851-15856, 2021 (SCI-

Expanded)

- LXI. **Defect characterization in Bi₁₂GeO₂₀ single crystals by thermoluminescence**
Delice S., Isik M., SARIGÜL N., HASANLI N.
JOURNAL OF LUMINESCENCE, cilt.233, 2021 (SCI-Expanded)
- LXII. **Optical and structural characteristics of electrodeposited Cd 1-xZnxS nanostructured thin films**
Erturk K., Isik M., Terlemezoglu M., HASANLI N.
Optical Materials, cilt.114, 2021 (SCI-Expanded)
- LXIII. **Investigation of traps distribution in GaS single crystals by thermally stimulated current measurements**
Delice S., Isik M., HASANLI N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.125, 2021 (SCI-Expanded)
- LXIV. **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, cilt.123, 2021 (SCI-Expanded)
- LXV. **Spectroscopic ellipsometry study of Bi₁₂TiO₂₀ single crystals**
Isik M., Hasanli N., Darvishov N. H., Bagiev V. E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.6, ss.7019-7025, 2021 (SCI-Expanded)
- LXVI. **Structural and optical properties of thermally evaporated (GaSe)_{0.75}-(GaS)_{0.25} thin films**
Isik M., Emir C., HASANLI N.
OPTIK, cilt.230, 2021 (SCI-Expanded)
- LXVII. **Observation of in situ enhanced crystallization, negative resistance effect and photosensitivity in Tl₂InGaSe₄ crystals**
Qasrawi A. F., Irshaid T. M. A., HASANLI N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.122, 2021 (SCI-Expanded)
- LXVIII. **Optical and Nanomechanical Properties of Ga₂Se₃ Single Crystals and Thin Films**
Işık M., Emir C., Gullu H. H., Gasanly N.
JOM, cilt.73, sa.2, ss.558-565, 2021 (SCI-Expanded)
- LXIX. **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, cilt.32, sa.1, ss.1316-1322, 2021 (SCI-Expanded)
- LXX. **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, cilt.263, 2021 (SCI-Expanded)
- LXXI. **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, cilt.120, 2020 (SCI-Expanded)
- LXXII. **Temperature-tuned band gap properties of MoS₂ thin films**
Surucu O., Isik M., Gasanly N., Terlemezoglu M., Parlak M.
MATERIALS LETTERS, cilt.275, 2020 (SCI-Expanded)
- LXXIII. **TL and OSL studies on gallium sulfide (GaS) single crystals**
Isik M., YÜKSEL M., TOPAKSU M., Gasanly N.
JOURNAL OF LUMINESCENCE, cilt.225, 2020 (SCI-Expanded)
- LXXIV. **Vibrational modes in (TiGa₂S)_x-(TiGaSe₂)_(1-x) mixed crystals by Raman measurements: compositional dependence of the mode frequencies and line-shapes**
Isik M., Terlemezoglu M., HASANLI N., Babayeva R. F.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.17, ss.14330-14335, 2020 (SCI-Expanded)
- LXXV. **Investigation of structural and optical characteristics of thermally evaporated Ga₂Se₃ thin films**
Isik M., Gasanly N.
VACUUM, cilt.179, 2020 (SCI-Expanded)

- LXXVI. **The effect of Ga/In ratio and annealing temperature on the nonlinear absorption behaviors in amorphous $TlGa_xIn(1-x)S_2$ ($0 \leq x \leq 1$) chalcogenide thin films**
Ünlü B. A., Karatay A., Yüksek M., Ünver H., Gasanly N., Elmali A.
Optics and Laser Technology, cilt.128, 2020 (SCI-Expanded)
- LXXVII. **Structural and temperature-tuned optical characteristics of $Bi_{12}GeO_{20}$ sillenite crystals**
Delice S., Isik M., Gasanly N., Darvishov N., Bagiev V.
CHINESE JOURNAL OF PHYSICS, cilt.66, ss.422-429, 2020 (SCI-Expanded)
- LXXVIII. **Thermoluminescence characteristics of $Bi_{12}SiO_{20}$ single crystals**
Isik M., SARIGÜL N., Gasanly N.
JOURNAL OF LUMINESCENCE, cilt.224, 2020 (SCI-Expanded)
- LXXIX. **Investigation of band gap energy versus temperature for SnS_2 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, cilt.591, 2020 (SCI-Expanded)
- LXXX. **Temperature dependent band gap in $SnS_2xSe(2-2x)$ ($x=0.5$) thin films**
Delice S., Isik M., Gullu H. H., Terlemezoglu M., Surucu O. B., Gasanly N., Parlak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.114, 2020 (SCI-Expanded)
- LXXXI. **Influence of temperature on optical properties of electron-beam-evaporated ZnSe thin film**
Gullu H. H., Isik M., Gasanly N., PARLAK M.
PHYSICA SCRIPTA, cilt.95, sa.7, 2020 (SCI-Expanded)
- LXXXII. **Investigation of optical properties of $Bi_{12}GeO_{20}$ sillenite crystals by spectroscopic ellipsometry and Raman spectroscopy**
Isik M., Delice S., Gasanly N., Darvishov N. H., Bagiev V. E.
CERAMICS INTERNATIONAL, cilt.46, sa.9, ss.12905-12910, 2020 (SCI-Expanded)
- LXXXIII. **Structural and optical properties of thermally annealed thallium indium disulfide thin films**
Guler I., Gasanly N.
THIN SOLID FILMS, cilt.704, 2020 (SCI-Expanded)
- LXXXIV. **Temperature-dependent material characterization of $CuZnSe_2$ thin films**
Gullu H. H., Surucu O., Terlemezoglu M., Isik M., Ercelebi C., Gasanly N., Parlak M.
THIN SOLID FILMS, cilt.701, 2020 (SCI-Expanded)
- LXXXV. **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, cilt.582, 2020 (SCI-Expanded)
- LXXXVI. **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, cilt.208, 2020 (SCI-Expanded)
- LXXXVII. **Thermoluminescence characterization of $(Ga_2Se_3)(0.25) - (Ga_2S_3)(0.75)$ single crystal compounds**
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- LXXXVIII. **Optical constants and critical point energies of $(AgInSe_2)(0.75)-(In_2Se_3)(0.25)$ single crystals**
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- XC. **Material and device properties of Si-based $Cu_{0.5}Ag_{0.5}InSe_2$ thin-film heterojunction diode**
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- XCI. **Temperature-dependent band gap characteristics of $Bi_{12}SiO_{20}$ single crystals**
Isik M., Delice S., Gasanly N., Darvishov N. H., Bagiev V. E.

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- XCII. **Study of vibrational modes in (Ga₂S₃)(x) - (Ga₂Se₃)(1-x) mixed crystals by Raman and infrared reflection measurements**
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- XCIII. **The defect state of Yb-doped ZnO nanoparticles using thermoluminescence study**
Hasanlı N., İsik M.
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- XCIV. **Temperature dependence of band gaps in sputtered SnSe thin films**
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- XCVI. **Traps distribution in sol-gel synthesized ZnO nanoparticles**
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- XCVII. **Analysis of temperature-dependent transmittance spectra of Zn_{0.5}In_{0.5}Se (ZIS) thin films**
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Işık M., Gasanly N., Gasanova L.
PHYSICA B-CONDENSED MATTER, cilt.560, ss.6-10, 2019 (SCI-Expanded)
- XCIX. **Structural and Optical Properties of Ga₂Se₃ Crystals by Spectroscopic Ellipsometry**
Guler I., Işık M., Gasanly N., Gasanova L. G., Babayeva R. F.
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- C. **Structural and temperature-dependent optical properties of thermally evaporated CdS thin films**
IŞIK M., Gullu H. H., Delice S., PARLAK M., Gasanly N.
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- CI. **Low temperature thermoluminescence of Gd₂O₃ nanoparticles using various heating rate and T-max - T-exc. methods**
Delice S., IŞIK M., Gasanly N.
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- CII. **Gd-doped ZnO nanoparticles: Synthesis, structural and thermoluminescence properties**
IŞIK M., Gasanly N.
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- CIII. **Optical band gap and dispersion of optical constants of Cu-Ga-S thin films**
Isik M., Gullu H. H., COŞKUN E., Gasanly N.
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- CIV. **Low temperature thermoluminescence behaviour of Y₂O₃ nanoparticles**
Delice S., IŞIK M., Gasanly N.
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- CV. **Spectroscopic ellipsometry investigation of optical properties of beta-Ga₂S₃ single crystals**
Işık M., Gasanly N., Gasanova L.
OPTICAL MATERIALS, cilt.86, ss.95-99, 2018 (SCI-Expanded)
- CVI. **Characterization of TlInS_{1.8}Se_{0.2} as advanced functional crystals**
Qasrawi A. F., Atatreh A. A. M., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.87, ss.174-180, 2018 (SCI-Expanded)
- CVII. **Composition-tuned optical absorption and luminescence of TlGa_xIn_{1-x}S₂ layered mixed crystals at**

T=10 K

HASANLI N.

OPTICAL MATERIALS, cilt.84, ss.94-98, 2018 (SCI-Expanded)

- CVIII. Structural and optical properties of thermally evaporated Cu-Ga-S (CGS) thin films**
Gullu H. H., IŞIK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, cilt.547, ss.92-96, 2018 (SCI-Expanded)
- CIX. Temperature-dependent structural transition, electronic properties and impedance spectroscopy analysis of Tl₂InGa₄ crystals grown by the Bridgman method**
Qasrawi A. F., Alkarem Q. A., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.84, ss.76-82, 2018 (SCI-Expanded)
- CX. Optical properties of TlGa(S_xSe_{1-x})₂ layered mixed crystals (0=x=1): Absorption edge and photoluminescence study at T=10 K**
HASANLI N.
PRAMANA-JOURNAL OF PHYSICS, cilt.91, sa.3, 2018 (SCI-Expanded)
- CXI. Thermoluminescence properties of Al doped ZnO nanoparticles**
IŞIK M., Gasanly N.
CERAMICS INTERNATIONAL, cilt.44, sa.12, ss.13929-13933, 2018 (SCI-Expanded)
- CXII. Thermoluminescence study in Cu₃Ga₅S₉ single crystals: Application of heating rate and T-m-T-stop methods**
Işık M., Gasanly N., Gasanova L. G., Mahammadov A. Z.
JOURNAL OF LUMINESCENCE, cilt.199, ss.334-338, 2018 (SCI-Expanded)
- CXIII. Study on thermoluminescence of TlIn₂S₂ layered crystals doped with Pr**
Delice S., IŞIK M., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.80, ss.99-103, 2018 (SCI-Expanded)
- CXIV. Characteristic features of thermoluminescence in neodymium-doped gallium sulfide**
Guler I., Işık M., Ahmedova F., Guseinov A., Gasanly N.
LUMINESCENCE, cilt.33, sa.4, ss.759-763, 2018 (SCI-Expanded)
- CXV. Characterization of defect states in Ga-rich gallium arsenide crystals by thermally stimulated current**
YILDIRIM T., Gasanly N., TÜZEMEN S.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, cilt.42, sa.A2, ss.947-950, 2018 (SCI-Expanded)
- CXVI. Trap characterization by photo-transferred thermoluminescence in MgO nanoparticles**
IŞIK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, cilt.537, ss.301-305, 2018 (SCI-Expanded)
- CXVII. Study of vibrational modes in Cu_xAg_{1-x}In₅S₈ mixed crystals by infrared reflection measurements**
HASANLI N.
INDIAN JOURNAL OF PHYSICS, cilt.92, sa.4, ss.431-435, 2018 (SCI-Expanded)
- CXVIII. Determination of Trapping Parameters of Tl₂In₂S₃Se Layered Single Crystal by Thermoluminescence**
Guler I., Gasanly N.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.53, sa.4, 2018 (SCI-Expanded)
- CXIX. Trap distribution in AgIn₅S₈ single crystals: Thermoluminescence study**
Delice S., IŞIK M., Gasanly N.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.114, ss.53-57, 2018 (SCI-Expanded)
- CXX. Low temperature absorption edge and photoluminescence study in TlIn(Se_{1-x}S_x)₂ layered mixed crystals**
HASANLI N.
PHYSICA B-CONDENSED MATTER, cilt.530, ss.82-85, 2018 (SCI-Expanded)
- CXXI. Optical properties of Cu₃In₅S₉ single crystals by spectroscopic ellipsometry**
Işık M., Nasser H., Ahmedova F., Guseinov A., Gasanly N.
OPTIK, cilt.171, ss.77-82, 2018 (SCI-Expanded)

- CXXII. **Characterization of trap centers in Gd₂O₃ nanoparticles by low temperature thermoluminescence measurements**
Delice S., IŞIK M., Gasanly N.
OPTIK, cilt.158, ss.237-242, 2018 (SCI-Expanded)
- CXXIII. **Thermoluminescence in gallium sesquisulfide single crystals: usual and unusual heating rate dependencies**
Guler I., Işık M., Gasanova L., Mahammadov A., Gasanly N.
OPTIK, cilt.165, ss.132-136, 2018 (SCI-Expanded)
- CXXIV. **Optical and photoelectrical properties of TlInSSe layered single crystals**
Guler I., Gasanly N.
OPTIK, cilt.157, ss.895-899, 2018 (SCI-Expanded)
- CXXV. **Determination of optical constants and temperature dependent band gap energy of Ga_{0.25}Se_{0.75} single crystals**
IŞIK M., Gasanly N.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.19, ss.374-378, 2017 (SCI-Expanded)
- CXXVI. **Composition-tuned band gap energy and refractive index in Ga_xSe_{1-x} layered mixed crystals**
IŞIK M., Gasanly N.
MATERIALS CHEMISTRY AND PHYSICS, cilt.190, ss.74-78, 2017 (SCI-Expanded)
- CXXVII. **Far-infrared lattice vibration spectra of copper gallium (indium) ternary selenides (tellurides): A consequence of trivalent cation and anion interrelation**
HASANLI N.
OPTIK, cilt.143, ss.19-25, 2017 (SCI-Expanded)
- CXXVIII. **Dose dependence effect of thermoluminescence process in TlInS₂:Nd single crystals**
Kadari A., Delice S., Gasanly N.
OPTIK, cilt.138, ss.372-376, 2017 (SCI-Expanded)
- CXXIX. **Defect characterization in neodymium doped thallium indium disulfide crystals by thermoluminescence measurements**
Delice S., Gasanly N.
PHYSICA B-CONDENSED MATTER, cilt.499, ss.44-48, 2016 (SCI-Expanded)
- CXXX. **Temperature-dependent optical properties of GaSe layered single crystals**
Hasanlı N.
Philosophical Magazine, cilt.96, ss.2564-2573, 2016 (SCI-Expanded)
- CXXXI. **Long-wavelength lattice vibrations of Ag₃In₅Se₉ and Ag₃In₅Te₉ single crystals: An inversion of LO- and TO-mode frequencies**
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- CXXXII. **Near-infrared photoluminescence and thermally stimulated current in Cu₃Ga₅Se₉ layered crystals: A comparative study**
HASANLI N.
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- CXXXIII. **Low-temperature photoluminescence in CuIn₅S₈ single crystals**
HASANLI N.
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- CXXXIV. **Analysis of Thermoluminescence Glow Peaks in beta-Irradiated TlGaSeS Crystals**
Hasanlı N.
Acta Physica Polonica A, cilt.129, ss.1165-1168, 2016 (SCI-Expanded)
- CXXXV. **Optical characterization of CuIn₅S₈ crystals by ellipsometry measurements**
Hasanlı N.
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- CXXXVI. **Comparative study of low-temperature photoluminescence and thermally stimulated current in quinary Tl₄Ga₃InSe₆S₂ layered crystals**

- HASANLI N.
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- CXXXVII. **Ellipsometric study of optical properties of GaS_xSe_{1-x} layered mixed crystals**
IŞIK M., Gasanly N.
OPTICAL MATERIALS, cilt.54, ss.155-159, 2016 (SCI-Expanded)
- CXXXVIII. **Thermoluminescence properties of ZnO nanoparticles in the temperature range 10-300 K**
IŞIK M., YILDIRIM T., Gasanly N.
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- CXXXIX. **Optical characterization of CuIn₅S₈ crystals by ellipsometry measurements**
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- CXL. **Ellipsometric study of optical properties of GaS_xSe_{1-x} layered mixed crystals**
Hasanlı N.
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- CXLI. **Defect characterization of Ga₄Se₃S layered single crystals by thermoluminescence**
IŞIK M., Delice S., Gasanly N.
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- CXLII. **Optical constants of silver and copper indium ternary sulfides from infrared reflectivity measurements**
HASANLI N.
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- CXLIII. **MgO/GaSe_{0.5}S_{0.5} Heterojunction as Photodiodes and Microwave Resonators**
Qasrawi A. F., Khanfar H. K., HASANLI N.
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- CXLIV. **Low-temperature thermoluminescence study of GaSe: Mn layered single crystals**
Delice S., Gasanly N.
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- CXLV. **Temperature-tuned band gap energy and oscillator parameters of GaS_{0.5}Se_{0.5} single crystals**
IŞIK M., Tugay E., Gasanly N.
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- CXLVI. **Combined low-temperature photoluminescence and thermally stimulated current studies in Cu₃In₅S₉ layered single crystals**
HASANLI N.
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- CXLVII. **Infrared-active modes in Ag₃Ga₅S₉ and Ag₃In₅S₉ single crystals: An influence of trivalent cation substitution**
HASANLI N.
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- CXLVIII. **Optical parameters of anisotropic chain-structured Tl₂InGaTe₄ crystals by spectroscopic ellipsometry**
IŞIK M., Gasanly N.
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- CXLIX. **Analysis of glow curve of GaS_{0.5}Se_{0.5} single crystals**
IŞIK M., Delice S., Gasanly N.
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- CL. **Ellipsometry study of optical parameters of AgIn₅S₈ crystals**
IŞIK M., Gasanly N.
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- CLI. **Characterization of the MgO/GaSe_{0.5}S_{0.5} heterojunction designed for visible light communications**
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HASANLI N.
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- CLIII. **Transmission, reflection and thermoluminescence studies on $Ga_{0.75}Se_{0.25}$ layered single crystals**
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- CLIV. **Characterization of defect states in $Ag_{0.5}Cu_{0.5}In_5S_8$ solid solution by photoluminescence and thermally stimulated current**
HASANLI N.
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- CLV. **Band gap and refractive index tunability in thallium based layered mixed crystals**
HASANLI N.
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- CLVI. **Optical characterization of Ga_2SeS layered crystals by transmission, reflection and ellipsometry**
IŞIK M., HASANLI N.
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- CLVII. **Determination of trapping parameters of thermoluminescent glow peaks of semiconducting $Tl_2Ga_2S_3Se$ crystals**
IŞIK M., YILDIRIM T., Gasanly N.
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HASANLI N.
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- CLIX. **Thermally assisted variable range hopping in Tl_4S_3Se crystal**
Ziqan A. M., QASRAWI A. F. H., Mohammad A. H., Gasanly N.
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- CLX. **Low temperature thermoluminescence of quaternary thallium sulfide $Tl_4InGa_3S_8$**
DELÍCE S., Isik M., BULUR E., Gasanly N.
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YILDIRIM T., Sulunhat B., Gasanly N.
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- CLXII. **Analysis of the Junction Properties of $C/GaSe_{0.5}S_{0.5}/C$ Back-to-Back Schottky-Type Photodetectors**
Khanfar H. K., Qasrawi A. F., HASANLI N.
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DELÍCE S., BULUR E., Gasanly N.
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- CLXVII. **Anomalous heating rate dependence of thermoluminescence in Tl_2GaInS_4 single crystals**

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- CLXVIII. **Low-Temperature Thermo luminescence Studies on TlInS₂ Layered Single Crystals**
Isik M., Delice S., Gasanly N.
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Delice S., Gasanly N.
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Guler I., Gasanly N.
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Isik M., Hadibrata W., Gasanly N.
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- CLXXII. **Compositional Dependence of Optical Modes Frequencies in TlGa(x)In(1-x)S(2) Layered Mixed Crystals (0 ≤ x ≤ 1)**
Isik M., Gasanly N., Korkmaz F.
ACTA PHYSICA POLONICA A, cilt.126, sa.3, ss.747-750, 2014 (SCI-Expanded)
- CLXXIII. **Thermoluminescence study on TlGaS₂ layered single crystals**
Delice S., HASANLI N.
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Delice S., Gasanly N.
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IŞIK M., Delice S., Gasanly N.
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IŞIK M., Gasanly N.
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Isik M., BULUR E., Gasanly N.
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IŞIK M., Gasanly N., KORKMAZ ÖZKAN F.
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- CLXXXIV. **Temperature-dependent electrical resistivity, space-charge-limited current and photoconductivity of Ga_{0.75}In_{0.25}Se single crystals**
IŞIK M., Gasanly N.
PHYSICA B-CONDENSED MATTER, cilt.421, ss.53-56, 2013 (SCI-Expanded)
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HASANLI N.
ACTA PHYSICA POLONICA A, cilt.124, sa.1, ss.128-132, 2013 (SCI-Expanded)
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