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Biography

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Nationality : Azebaijanian

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 A^3B^6-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 Ga0.75In0.25Se layered single crystals, Doctorate, M.Işık(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. **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)
II. **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)
III. **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)

IV. **Growth and optical properties of (Na0.5Bi0.5)(Mo1−xWx)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)

V. **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, vol.669, 2023 (SCI-Expanded)

VI. **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)

VII. **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)

VIII. **Temperature-dependent current–voltage characteristics of p-GaSe0.75S0.25/n-Si heterojunction**
Isik M., Surucu O., HASANLI N.
Applied Physics A: Materials Science and Processing, vol.129, no.8, 2023 (SCI-Expanded)

IX. **Tunable nonlinear absorption and optical limiting behavior of NaBi(MoxW1-xO4)(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)

X. **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)

XI. **Spectroscopic ellipsometry studies of optical properties of TlIn(S0.25Se0.75)2 crystal**
Guler I., Isik M., HASANLI N.
Applied Physics A: Materials Science and Processing, vol.129, no.6, 2023 (SCI-Expanded)

XII. **Excitation wavelength dependent nonlinear absorption mechanisms and optical limiting properties of Bi12SiO20 single crystal**
Doğan A., KARATAY A., Isık M., PEPE Y., HASANLI N., ELMALI A.
Optical Materials, vol.140, 2023 (SCI-Expanded)

XIII. **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)

XIV. **Growth and characterization of NaBi(Mo0.5W0.5O4)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)

XV. **Growth and characterization of PbMo0.75W0.25O4 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)

XVI. **Growth and temperature tuned band gap characteristics of NaBi(MoO4)2 single crystal**
Isik M., Guler I., Hasanlı N.
Physica Scripta, vol.98, no.2, 2023 (SCI-Expanded)

XVII. **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)

XVIII. **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)

XIX. **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)

XX. **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)

XXI. **Investigation of linear and nonlinear optical properties of PbWO4 single crystal**
Delice S., Isik M., HASANLI N.
Optical Materials, vol.133, 2022 (SCI-Expanded)

XXII. **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)

XXIII. **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)

XXIV. **Temperature effects on optical characteristics of thermally evaporated CuSbSe2 thin films for solar cell applications**
Surucu O., Isik M., Terlemezoglu M., Bektas T., Hasanli N., Parlak M.
Optical Materials, vol.133, 2022 (SCI-Expanded)

XXV. **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, vol.33, no.28, pp.22281-22290, 2022 (SCI-Expanded)

XXVI. **Structural, morphological and temperature-tuned bandgap characteristics of CuS nano-flake thin films**
Isik M., Terlemezoglu M., Hasanli N., Parlak M.
Physica E: Low-Dimensional Systems and Nanostructures, vol.144, 2022 (SCI-Expanded)

XXVII. **Spectroscopic ellipsometry characterization of PbWO4 single crystals**
Delice S., Isik M., HASANLI N., Darvishov N., Bagiev V.
Optical Materials, vol.131, 2022 (SCI-Expanded)

XXVIII. **Linear and nonlinear optical characteristics of Bi12SiO20 single crystals**
Isik M., HASANLI N.
Optical Materials, vol.131, 2022 (SCI-Expanded)

XXIX. **Temperature-tuned optical bandgap of Al-doped ZnO spin coated nanostructured thin films**
Isik M., HASANLI N.
Materials Letters, vol.321, 2022 (SCI-Expanded)

XXX. **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)

XXXI. **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)

XXXII. **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)

XXXIII. **Thermoluminescence characteristics of GaSe and Ga2Se3 single crystals**
Isik M., SARIGÜL N., HASANLI N.
Journal of Luminescence, vol.246, 2022 (SCI-Expanded)

XXXIV. **Temperature dependent bandgap in NaBi(WO4)2 single crystals**
Isik M., HASANLI N., Darvishov N., Bagiev V.
Optik, vol.258, 2022 (SCI-Expanded)

XXXV. **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)

XXXVI. **Thermoluminescence properties and trapping parameters of TlGaS2 single crystals**
Delice S., Isik M., HASANLI N.
Journal of Luminescence, vol.244, 2022 (SCI-Expanded)

XXXVII. **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)

XXXVIII. **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)

XXXIX. **Structural and optical characteristics of thermally evaporated TlGaSe2 thin films**
Isik M., KARATAY A., HASANLI N.
Optical Materials, vol.124, 2022 (SCI-Expanded)

XL. **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, vol.128, no.1, 2022 (SCI-Expanded)

XLI. **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)

XLII. **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)

XLIII. **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)

XLIV. **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)

XLV. **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)

XLVI. **The effect of Zn concentration on the structural and optical properties of Cd1-xZnxS nanostructured thin films**
Isik M., Terlemezoglu M., Isik S., Erturk K., HASANLI N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.20, pp.25225-25233, 2021 (SCI-Expanded)

XLVII. **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)

XLVIII. **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)

XLIX. **First principles study of Bi12GeO20: Electronic, optical and thermodynamic characterizations**
Isik M., Sürücü G., Gencer A., Hasanlı N.
Materials Today Communications, vol.27, 2021 (SCI-Expanded)

L. **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, vol.32, no.12, pp.15851-15856, 2021 (SCI-Expanded)

LI. **Defect characterization in Bi12GeO20 single crystals by thermoluminescence**
Delice S., Isik M., SARIGÜL N., HASANLI N.
JOURNAL OF LUMINESCENCE, vol.233, 2021 (SCI-Expanded)

LII. **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)

LIII. **Optical and structural characteristics of electrodeposited Cd 1-xZnxS nanostructured thin films**
Erturk K., Isik M., Terlemezoglu M., HASANLI N.
Optical Materials, vol.114, 2021 (SCI-Expanded)

LIV. **Spectroscopic ellipsometry study of Bi12TiO20 single crystals**
Isik M., Hasanlı N., Darvishov N. H., Bagiev V. E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.7019-7025, 2021 (SCI-Expanded)

LV. **Temperature effects on optical characteristics of CdSe thin films**
Gullu H. H., Isik M., Surucu O., Hasanlı N., Parlak M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.123, 2021 (SCI-Expanded)

LVI. **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)

LVII. **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, vol.122, 2021 (SCI-Expanded)

LVIII. **Optical and Nanomechanical Properties of Ga(2)Se(3)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)

LIX. **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)

LX. **Temperature-dependent optical characteristics of sputtered Ga-doped ZnO thin films**
Gullu H. H., Isik M., Hasanlı N., Parlak M.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.263, 2021 (SCI-Expanded)

LXI. **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)

LXII. **Vibrational modes in (TlGaS2)(x)-(TlGaSe2)(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, vol.31, no.17, pp.14330-14335, 2020 (SCI-Expanded)

LXIII. **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)

LXIV. **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)

LXV. **Investigation of structural and optical characteristics of thermally evaporated Ga2Se3 thin films**
Isik M., Gasanly N.
VACUUM, vol.179, 2020 (SCI-Expanded)

LXVI. **The effect of Ga/In ratio and annealing temperature on the nonlinear absorption behaviors in amorphous TlGaxIn(1-x)S2 ($0 \leq x \leq 1$) chalcogenide thin films**
Ünlü B. A., Karatay A., Yüksek M., Ünver H., Gasanly N., Elmali A.
Optics and Laser Technology, vol.128, 2020 (SCI-Expanded)

LXVII. **Thermoluminescence characteristics of Bi 12 SiO 20 single crystals**
Isik M., SARIGÜL N., Gasanly N.
JOURNAL OF LUMINESCENCE, vol.224, 2020 (SCI-Expanded)

LXVIII. **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)

LXIX. **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)

LXX. **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, vol.591, 2020 (SCI-Expanded)

LXXI. **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)

LXXII. **Investigation of optical properties of Bi12GeO20 sillenite crystals by spectroscopic ellipsometry and Raman spectroscopy**
Isik M., Delice S., Gasanly N., Darvishov N. H., Baglev V. E.
CERAMICS INTERNATIONAL, vol.46, no.9, pp.12905-12910, 2020 (SCI-Expanded)

LXXIII. **Structural and optical properties of thermally annealed thallium indium disulfide thin films**
Guler I., Gasanly N.
THIN SOLID FILMS, vol.704, 2020 (SCI-Expanded)

LXXIV. **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)

LXXV. **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)

LXXVI. **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)

LXXVII. **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)

LXXVIII. **Optical constants and critical point energies of (AgInSe2)(0.75)-(In2Se3)(0.25) single crystals**
Isik M., Nasser H., Guseinov A., Gasanly N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.6, pp.4702-4707, 2020 (SCI-Expanded)

LXXIX. **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)

LXXX. **Material and device properties of Si-based Cu0.5Ag0.5InSe2 thin-film heterojunction diode**
Gullu H. H., Isik M., Delice S., Parlak M., Gasanly N.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.2, pp.1566-1573, 2020 (SCI-Expanded)

LXXXI. **Temperature-dependent band gap characteristics of Bi12SiO20 single crystals**
Isik M., Delice S., Gasanly N., Darvishov N. H., Bagiev V. E.
JOURNAL OF APPLIED PHYSICS, vol.126, no.24, 2019 (SCI-Expanded)

LXXXII. **Study of vibrational modes in (Ga2S3)(x) - (Ga2Se3)(1-x) mixed crystals by Raman and infrared reflection measurements**
Isik M., Guler I., Gasanly N.
OPTICAL MATERIALS, vol.95, 2019 (SCI-Expanded)

LXXXIII. **The defect state of Yb-doped ZnO nanoparticles using thermoluminescence study**
Hasanlı N., İsik M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.100, pp.29-34, 2019 (SCI-Expanded)

LXXXIV. **Temperature dependence of band gaps in sputtered SnSe thin films**
Delice S., Isik M., Gullu H., TERLEMEZOĞLU M., Bayrakli Surucu O., PARLAK M., Gasanly N.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.131, pp.22-26, 2019 (SCI-Expanded)

LXXXV. **Effect of heating rate on thermoluminescence characteristics of Y2O3 nanoparticles**
Delice S., İsik M., Hasanlı N.
JOURNAL OF LUMINESCENCE, vol.212, pp.233-237, 2019 (SCI-Expanded)

LXXXVI. **Traps distribution in sol-gel synthesized ZnO nanoparticles**
Delice S., IŞIK M., Gasanly N.
MATERIALS LETTERS, vol.245, pp.103-105, 2019 (SCI-Expanded)

LXXXVII. **Analysis of temperature-dependent transmittance spectra of Zn0.5In0.5Se (ZIS) thin films**
Isik M., Gullu H. H., Delice S., Gasanly N., PARLAK M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.10, pp.9356-9362, 2019 (SCI-Expanded)

LXXXVIII. **Optical properties of (Ga2Se3)(0.)(75) - (Ga2S3)(0.)(25) single crystals by spectroscopic ellipsometry**
Işık M., Gasanly N., Gasanova L.
PHYSICA B-CONDENSED MATTER, vol.560, pp.6-10, 2019 (SCI-Expanded)

LXXXIX. **Structural and temperature-dependent optical properties of thermally evaporated CdS thin films**
IŞIK M., Gullu H. H., Delice S., PARLAK M., Gasanly N.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.93, pp.148-152, 2019 (SCI-Expanded)

XC. **Structural and Optical Properties of Ga2Se3 Crystals by Spectroscopic Ellipsometry**
Guler I., Işık M., Gasanly N., Gasanova L. G., Babayeva R. F.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.4, pp.2418-2422, 2019 (SCI-Expanded)

XCI. **Gd-doped ZnO nanoparticles: Synthesis, structural and thermoluminescence properties**
IŞIK M., Gasanly N.
JOURNAL OF LUMINESCENCE, vol.207, pp.220-225, 2019 (SCI-Expanded)

XCII. **Low temperature thermoluminescence of Gd2O3 nanoparticles using various heating rate and T-max - T-exc. methods**
Delice S., IŞIK M., Gasanly N.
RESULTS IN PHYSICS, vol.12, pp.1809-1813, 2019 (SCI-Expanded)

XCIII. **Optical band gap and dispersion of optical constants of Cu-Ga-S thin films**
Isik M., Gullu H. H., COŞKUN E., Gasanly N.
OPTIK, vol.186, pp.147-154, 2019 (SCI-Expanded)

XCIV. **Low temperature thermoluminescence behaviour of Y2O3 nanoparticles**
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