

## Assoc. Prof. Bekir GÜRBULAK

### Personal Information

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### Education Information

Undergraduate, Anadolu University, Open Education Faculty, Department Of Economics And Administrative Programs, Turkey 2019 - Continues

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1994 - 1997

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1990 - 1992

Undergraduate, Ataturk University, Fen Fakültesi, Fizik, Turkey 1984 - 1988

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Personal Evolution, Afet Farkındalık Eğitimi, AFAD, 2021

Vocational Training, İşyerlerinde İş Sağlığı ve Güvenliği Bilinci, İstanbul Sanayi Odası, 2021

Occupational Health and Safety, 2021 İş Sağlığı ve Güvenliği Genel Müdürlüğü B sınıfı İş Güvenliği Uzmanlığı Sertifikası , Çalışma ve Sosyal Güvenlik Bakanlığı, 2021

Occupational Health and Safety, İş sağlığı ve güvenliği B sınıfı uzmanlık kursu , Çalışma ve Sosyal Güvenlik Bakanlığı, 2021

Vocational Course, Uzaktan Öğreticilik Sertifikası, Atatürk Üniversitesi, 2021

Vocational Training, KİD, Atatürk Üniversitesi, 2020

Occupational Health and Safety, İSG hekimliği ve iş Güvenliği eğitimi sertifikası, Çalışma vee sosyal Güvenlik Bakanlığı, 2016

Occupational Health and Safety, İSG Uzmanlığı, Çalışma ve Sosyal Güvenlik Bakanlığı, 2014

### Dissertations

Doctorate, İkili (InSe, InSe:Er, GaSe, GaSe:Gd) ve Üçlü (TlGaSe<sub>2</sub>, TlGaSe<sub>2</sub>:Gd) Tek Kristallerin Büyütülmesi Soğurma ve Elektriksel Özelliklerin İncelenmesi, Doktora Tezi, 1997., Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 1997

Postgraduate, Üçlü (Ternary) CuInSe<sub>2</sub> Tek Kristallerinin Büyütülmesi, Yüksek Lisans Tezi, 1992. , Atatürk Üniversitesi, Fen Filimleri, Fizik, 1992

### Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Ataturk University, Fen Fakültesi, Fizik, 1990 - Continues

## Academic and Administrative Experience

Head of Department, Ataturk University, Fen Fakültesi, Fizik, 2019 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2016 - Continues

Fakülte Yönetim Kurulu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2009 - 2012

Fakülte Kurulu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2009 - 2012

## Courses

Elektronik II Laboratuvarı, Undergraduate, 2019 - 2020

Elektronik Laboratuvarı II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

Fizik I, Undergraduate, 2020 - 2021

İş Güvenliği, Undergraduate, 2019 - 2020

Titreşim Dalgalar Laboratuvarı, Undergraduate, 2020 - 2021

Fizik I, Undergraduate, 2020 - 2021

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

Fizik II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

Fizik I, Undergraduate, 2020 - 2021

Fizik I, Undergraduate, 2020 - 2021

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

İş Güvenliği, Postgraduate, 2020 - 2021

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

Fizik II, Undergraduate, 2019 - 2020

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

İş Sağlığı ve Güvenliği I, Undergraduate, 2020 - 2021

İş Güvenliği, Undergraduate, 2020 - 2021

İş Sağlığı ve Güvenliği-II, Undergraduate, 2018 - 2019

İş Sağlığı ve Güvenliği II, Undergraduate, 2019 - 2020

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Analysis of temperature dependent current-voltage characteristics of Sn/ p-GaTe/In Schottky diode**  
Duman S., GÜRBULAK B., ŞATA M.  
OPTICAL MATERIALS, vol.125, 2022 (Journal Indexed in SCI)
- II. **Effect of voltages on gamma-Ray linear attenuation coefficients for some semiconductors**  
Akça B., GÜRBULAK B., Zeki Erzeneoğlu S. Z.

RADIATION PHYSICS AND CHEMISTRY, vol.179, 2021 (Journal Indexed in SCI)

- III. **Calculation of characteristics parameters of Au/methyl green/n-Si/Ag diodes from the current-voltage measurements**  
Kaya F. S. , Duman S., BARIŞ Ö., GÜRBULAK B.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.121, 2021 (Journal Indexed in SCI)
- IV. **Enhanced Electrocatalytic Activity in GaSe and InSe Nanosheets: The Role of Surface Oxides**  
D'Olimpio G., Nappini S., Vorokhta M., Lozzi L., Genuzio F., Mentis T. O. , Paolucci V., GÜRBULAK B., Duman S., Ottaviano L., et al.  
ADVANCED FUNCTIONAL MATERIALS, vol.30, no.43, 2020 (Journal Indexed in SCI)
- V. **Effect of Temperature and Illumination on the Current-Voltage Characteristics of a Al/p-GaSe/In Diode**  
Budak H., Duman S., Kaya F. S. , Ashkhasi A., GÜRBULAK B.  
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.10, pp.5698-5704, 2020 (Journal Indexed in SCI)
- VI. **Liquid Phase Exfoliated Indium Selenide Based Highly Sensitive Photodetectors**  
Curreli N., Serri M., Spirito D., Lago E., Petroni E., Martin-Garcia B., Politano A., GÜRBULAK B., Duman S., Krahne R., et al.  
ADVANCED FUNCTIONAL MATERIALS, vol.30, no.13, 2020 (Journal Indexed in SCI)
- VII. **Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction**  
PETRONI E., Lago E., BELLANI S., Boukhvalov D. W. , POLITANO A., GÜRBULAK B., Duman S., PRATO M., GENTILUOMO S., OROPESA-NUÑEZ R., et al.  
SMALL, vol.14, no.26, 2018 (Journal Indexed in SCI)
- VIII. **Silicon-doping influence on the crystalline, surface and optical features of cadmium oxide films deposited by sol-gel spin route**  
Turgut G., Kurt M. S. , ERTUĞRUL M., İSKENDEROĞLU D., Duman S., GÜRBULAK B.  
OPTIK, vol.165, pp.310-318, 2018 (Journal Indexed in SCI)
- IX. **The Advent of Indium Selenide: Synthesis, Electronic Properties, Ambient Stability and Applications**  
Boukhvalov D. W. , GÜRBULAK B., Duman S., WANG L., POLITANO A., Caputi L. S. , Chiarello G., CUPOLILLO A.  
NANOMATERIALS, vol.7, no.11, 2017 (Journal Indexed in SCI)
- X. **Indium selenide: an insight into electronic band structure and surface excitations**  
POLITANO A., Campi D., CATTELAN M., Ben Amara I., JAZIRI S., MAZZOTTI A., BARINOV A., GÜRBULAK B., Duman S., AGNOLI S., et al.  
SCIENTIFIC REPORTS, vol.7, 2017 (Journal Indexed in SCI)
- XI. **Lutentium incorporation influence on ZnO thin films coated via a sol-gel route: spin coating technique**  
Turgut G., Duman S., Ozcelik F. S. , Gurbulak B., Dogan S.  
Journal of Materials Science: Materials in Electronics, vol.27, no.5, pp.5089-5098, 2016 (Journal Indexed in SCI)
- XII. **Growth of InSe:Mn semiconductor crystals by Bridgman-Stockbarger technique and analysis of electron irradiation effects on Sn/InSe:Mn Schottky diodes**  
DEMIR K. C. , TEKLE T., GÜRBULAK B., AYDOĞAN Ş., Coskun C., EKINCI D.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.171, pp.528-543, 2016 (Journal Indexed in SCI)
- XIII. **The influence of chemical reactivity of surface defects on ambient-stable InSe-based nanodevices**  
POLITANO A., Chiarello G., SAMNAKAY R., LIU G., GÜRBULAK B., Duman S., Balandin A. A. , Boukhvalov D. W.  
NANOSCALE, vol.8, no.16, pp.8474-8479, 2016 (Journal Indexed in SCI)
- XIV. **Electrical properties of Al/p-Ge and Al/Methyl Green/p-Ge diodes**  
Duman S., Turgut G., Ozcelik F. S. , Gurbulak B.  
Philosophical Magazine, vol.95, no.15, pp.1646-1655, 2015 (Journal Indexed in SCI)
- XV. **Measurement of gamma-ray transmission factors of semiconductor crystals at various annealing temperature and time**  
Akca B., ERZENEÖĞLU S. Z. , GÜRBULAK B.  
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.53, no.1, pp.49-55, 2015 (Journal Indexed in SCI)

- XVI. **Current-Voltage and Capacitance-Conductance-Voltage Characteristics of Al/SiO<sub>2</sub>/p-Si and Al/Methyl Green (MG)/p-Si Structures**  
DUMAN S., Ozcelik F. S. , GÜRBULAK B., GÜLNAHAR M., TÜRÜT A.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.1,  
pp.347-353, 2015 (Journal Indexed in SCI)
- XVII. **Fabrication and electrical characterization of Au/Pyronine-G/p-Si diode**  
Duman S., Ozcelik F. S. , GÜRBULAK B., Korucu D., BARIŞ Ö., Turgut G.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.28, pp.20-25, 2014 (Journal Indexed in SCI)
- XVIII. **Structural characterizations and optical properties of InSe and InSe:Ag semiconductors grown by Bridgman/Stockbarger technique**  
GÜRBULAK B., ŞATA M., Dogan S., Duman S., ASHKHASI A., Keskenler E. F.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.64, pp.106-111, 2014 (Journal Indexed in SCI)
- XIX. **The synthesis and characterization of sol-gel spin coated CdO thin films: As a function of solution molarity**  
Duman S., Turgut G., Ozcelik F. S. , Gurbulak B.  
Materials Letters, vol.126, pp.232-235, 2014 (Journal Indexed in SCI)
- XX. **Fabrication and characterization of Al/Cu<sub>2</sub>ZnSnS<sub>4</sub>/n-Si/Al heterojunction photodiodes**  
Turgut G., Keskenler E. F. , Aydın S., Dogan S., Duman S., Ozcelik S., Gürbulak B., Esen B.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.211, pp.580-586, 2014 (Journal Indexed in SCI)
- XXI. **An investigation of Zn/ZnO:Al/p-Si/Al heterojunction diode by sol-gel spin coating technique**  
TURGUT G., DUMAN S., ÖZÇELİK F., SÖNMEZ E., GÜRBULAK B.  
Journal of Sol-Gel Science and Technology, vol.71, no.3, pp.589-596, 2014 (Journal Indexed in SCI)
- XXII. **Growth and characterization of Ag/n-ZnO/p-Si/Al heterojunction diode by sol-gel spin technique**  
Keskenler E. F. , Tomakin M., Dogan S., Turgut G., Aydın S., Duman S., Gürbulak B.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.550, pp.129-132, 2013 (Journal Indexed in SCI)
- XXIII. **Evaluation of Structural and Optical Properties of Mn-Doped ZnO Thin Films Synthesized by Sol-Gel Technique**  
Keskenler E. F. , DOĞAN S., Turgut G., GÜRBULAK B.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.13,  
pp.5088-5095, 2012 (Journal Indexed in SCI)
- XXIV. **Metal/p-InSe: Mn Schottky barrier diodes**  
Duman S., Elkoca Z., Gurbulak B., Tekle T. B. , Dogan S.  
Journal of Optoelectronics and Advanced Materials, vol.14, pp.693-698, 2012 (Journal Indexed in SCI)
- XXV. **Capacitance and conductance-frequency characteristics of Au-Sb/p-GaSe:Gd Schottky barrier diode**  
Duman S., Gurbulak B., Dogan S., Turut A.  
Vacuum, vol.85, no.8, pp.798-801, 2011 (Journal Indexed in SCI)
- XXVI. **Structural and optical properties of ZnO thin films by the spin coating Sol-Gel method**  
Keskenler E. F. , Dogan S., Diyarbakir B., Duman S., Gurbulak B.  
Journal of Sol-Gel Science and Technology, vol.60, no.1, pp.66-70, 2011 (Journal Indexed in SCI)
- XXVII. **Electrical characterization of Ag/p-GaSe:Gd schottky barrier diodes**  
Duman S., Gurbulak B., Dogan S., Tekle T. B.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.42, no.7, pp.1958-1962, 2010 (Journal Indexed in SCI)
- XXVIII. **DETERMINATION OF MASS ATTENUATION COEFFICIENTS OF SOME SEMICONDUCTOR AND BIOLOGICAL SAMPLES**  
EKİNCİ N., GÜROL A., DURNA D., GÜRBULAK B.  
ANALYTICAL LETTERS, vol.43, no.13, pp.1999-2008, 2010 (Journal Indexed in SCI)
- XXIX. **Temperature variation of current-voltage characteristics of Au/Ni/n-GaN Schottky diodes**  
DOĞAN S., Duman S., GÜRBULAK B., Tuezemen S., Morkoc H.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.41, no.4, pp.646-651, 2009 (Journal Indexed

in SCI)

- XXX. **Electrical characteristics and inhomogeneous barrier analysis of Au-Be/p-InSe:Cd Schottky barrier diodes**  
Duman S., Gurbulak B., Dogan S., Turut A.  
Microelectronic Engineering, vol.86, no.1, pp.106-110, 2009 (Journal Indexed in SCI)
- XXXI. **The barrier-height inhomogeneity in identically prepared Ni/n-type 6H-SiC Schottky diodes**  
Duman S., Dogan S., Guerbulak B., Tueruet A.  
Applied Physics A: Materials Science and Processing, vol.91, no.2, pp.337-340, 2008 (Journal Indexed in SCI Expanded)
- XXXII. **Urbach tail and electric field influence on optical properties of InSe and InSe:Er single crystals**  
KUNDAKÇI M., Guerbulak B., DOĞAN S., ATEŞ A., YILDIRIM M.  
Applied Physics A: Materials Science and Processing, vol.90, no.3, pp.479-485, 2008 (Journal Indexed in SCI)
- XXXIII. **Urbach tail and optical characterization of gadolinium-doped TlGaSe<sub>2</sub> single crystals**  
Gurbulak B., Duman S.  
Physica Scripta, vol.77, no.2, 2008 (Journal Indexed in SCI)
- XXXIV. **Electric field influence on exciton absorption of Er doped and undoped InSe single crystals**  
Guerbulak B., Kundakci M., Ates A., Yildirim M.  
Physica Scripta, vol.75, no.4, pp.424-430, 2007 (Journal Indexed in SCI Expanded)
- XXXV. **Temperature-dependent optical absorption measurements and Schottky contact behavior in layered semiconductor n-type InSe(:Sn)**  
Duman S., Gurbulak B., Turut A.  
Applied Surface Science, vol.253, no.8, pp.3899-3905, 2007 (Journal Indexed in SCI)
- XXXVI. **Effective mass calculation for InSe, InSe:Er crystals**  
Ates A., Kundakci M., Akaltun Y., Gurbulak B., Yildirim M.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.36, no.2, pp.217-220, 2007 (Journal Indexed in SCI Expanded)
- XXXVII. **Measurement of mass attenuation coefficients for holmium doped and undoped layered semiconductors InSe at different energies and the validity of mixture rule for crystals around the absorption edge**  
Erzeneoglu S., Icelli O., Gurbulak B., Ates A.  
Journal of Quantitative Spectroscopy and Radiative Transfer, vol.102, no.3, pp.343-347, 2006 (Journal Indexed in SCI)
- XXXVIII. **Absorption measurement and Urbach's rule in InSe and InSe:Ho 0.0025, InSe:Ho0.025 single crystals**  
Ates A., Yildirim M., Gurbulak B.  
Optical Materials, vol.28, no.5, pp.488-493, 2006 (Journal Indexed in SCI)
- XXXIX. **Calculation of the effective mass due to the influence of an electric field on the optical absorption in InSe:Er single crystal**  
Gurbulak B.  
Chinese Journal of Physics, vol.43, no.4, pp.856-866, 2005 (Journal Indexed in SCI)
- XL. **Urbach tail and optical absorption in layered semiconductor TlGaSe<sub>2</sub>(1-X)S<sub>2x</sub> single crystals**  
Duman S., Gurbulak B.  
Physica Scripta, vol.72, no.1, pp.79-86, 2005 (Journal Indexed in SCI)
- XLI. **Mass attenuation coefficients for n-type InSe, InSe:Gd, InSe:Ho and InSe:Er single crystals**  
Icelli O., Erzeneoglu S., Gurbulak B.  
Journal of Quantitative Spectroscopy and Radiative Transfer, vol.90, pp.399-407, 2005 (Journal Indexed in SCI)
- XLII. **The Urbach tails and optical absorption in layered semiconductor TlGaSe<sub>2</sub> and TlGaS<sub>2</sub> single crystals**  
Gurbulak B., Duman S., Ates A.  
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.55, no.1, pp.93-103, 2005 (Journal Indexed in SCI)
- XLIII. **Urbach tail and optical investigations of Gd doped and undoped InSe single crystals**  
Gurbulak B.  
Physica Scripta, vol.70, pp.197-201, 2004 (Journal Indexed in SCI)

- XLIV. **The growth of p-type TlGaSe<sub>2</sub>((1-x))S-2x single crystals**  
Gurbulak B., Duman S., Ates A.  
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.54, no.8, pp.857-866, 2004 (Journal Indexed in SCI)
- XLV. **Absorption measurements in InSe : Ho single crystal under an electric field**  
ATEŞ A., Gurbulak B., Yildirim M., Tuzemen S.  
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.54, no.3, pp.377-385, 2004 (Journal Indexed in SCI)
- XLVI. **Investigation of the electrical properties of Ho-doped InSe single crystal**  
Ates A., Yildirim M., Gurbulak B.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.21, no.1, pp.85-90, 2004 (Journal Indexed in SCI)
- XLVII. **Electric field influence on absorption measurement in InSe single crystal**  
Ates A., Gurbulak B., Yildirim A., Dogan S.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.16, no.2, pp.274-279, 2003 (Journal Indexed in SCI)
- XLVIII. **Near bandedge optical absorption processes in semi insulating and N-type GaAs**  
Yildirim T., TÜZEMEN S., Doğan S., GÜRBULAK B., Ateş A., YILDIRIM M.  
Turkish Journal of Physics, vol.26, no.1, pp.29-32, 2002 (Journal Indexed in SCI Expanded)
- XLIX. **Temperature dependence of galvanomagnetic properties for lightly doped N-type Si**  
Ateş A., GÜRBULAK B., Doğan S., YILDIRIM M., TÜZEMEN S.  
Turkish Journal of Physics, vol.26, no.1, pp.73-80, 2002 (Journal Indexed in SCI Expanded)
- L. **Optical absorption edge and Urbach tails for Tl<sub>0.999</sub>GaPr<sub>0.001</sub>Se<sub>2</sub>, Tl<sub>0.995</sub>GaPr<sub>0.005</sub>Se and TlGaSe<sub>2</sub>**  
Gurbulak B.  
INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.39, no.10, pp.647-653, 2001 (Journal Indexed in SCI)
- LI. **Optical absorption edge and Urbach tails for Tl<sub>0.999</sub>GaPr<sub>0.001</sub>Se<sub>2</sub>, Tl<sub>0.995</sub>GaPr<sub>0.005</sub>Se<sub>2</sub> and TlGaSe<sub>2</sub>**  
GÜRBULAK B.  
Indian Journal of Pure and Applied Physics, vol.39, no.10, pp.647-653, 2001 (Journal Indexed in SCI)
- LII. **Persistent galvanomagnetic effects related to photo-quenching phenomena in lightly n-type LEC GaAs**  
Yildirim M., Tuzemen S., Gurbulak B., ATEŞ A., AYYILDIZ E.  
PHYSICA SCRIPTA, vol.63, no.2, pp.169-172, 2001 (Journal Indexed in SCI)
- LIII. **The effect of Fe on the absorption spectra in TlGaS<sub>2</sub>, TlGa<sub>0.99</sub>Fe<sub>0.01</sub>S<sub>2</sub> and TlGa<sub>0.98</sub>Fe<sub>0.02</sub>S<sub>2</sub> layer single crystals**  
Gurbulak B.  
Physica Status Solidi (A) Applied Research, vol.184, no.2, pp.349-357, 2001 (Journal Indexed in SCI Expanded)
- LIV. **Optical investigation of TlGa<sub>0.999</sub>Pr<sub>0.001</sub>Se<sub>2</sub> and TlGaSe<sub>2</sub> single crystals**  
Gurbulak B.  
Physica B: Condensed Matter, vol.293, pp.289-296, 2001 (Journal Indexed in SCI Expanded)
- LV. **Exciton investigations and the Urbach tails of Gd doped and undoped GaSe**  
GÜRBULAK B.  
Turkish Journal of Physics, vol.25, no.4, pp.315-325, 2001 (Journal Indexed in SCI Expanded)
- LVI. **The growth of p-type AIIIBIIICVI<sub>2</sub> single crystals**  
GÜRBULAK B., Coşkun C., DOĞAN S., ATEŞ A., Yoğurtçu Y. K.  
Turkish Journal of Physics, vol.24, no.1, pp.29-37, 2000 (Journal Indexed in SCI Expanded)
- LVII. **The absorption properties of p-type TlIn<sub>x</sub>Ga(1-cursive greek chi)Se<sub>2</sub> and TlGaSe<sub>2</sub>**  
GÜRBULAK B., YILDIRIM M., ATEŞ A., Tüzemen S., Yoğurtçu Y. K.  
Turkish Journal of Physics, vol.24, no.1, pp.49-61, 2000 (Journal Indexed in SCI Expanded)
- LVIII. **Temperature Dependence of Magnetoresistance and Hall Effect for Ho Doped n-Type InSe**  
Gurbulak B., Yildirim M., Ates A., Dogan S., Coskun C., Yogurtcu Y.  
Physica Scripta, vol.62, no.1, pp.92-96, 2000 (Journal Indexed in SCI Expanded)
- LIX. **Growth and Temperature Dependence of Optical Properties of Er Doped and Undoped n-Type InSe**  
Gurbulak B., Yildirim M., Ates A., Dogan S., Yogurtcu Y.  
Japanese Journal of Applied Physics, Part 1: Regular Papers and Short Notes and Review Papers, vol.38, pp.5133-

5136, 1999 (Journal Indexed in SCI)

- LX. **In situ optical assessment of semi insulating iron doped InP grown by liquid encapsulated Czochralski process**  
Doğan S., TÜZEMEN S., GÜRBULAK B., YILDIRIM M., ATEŞ A.  
JOURNAL OF APPLIED PHYSICS, vol.85, pp.6777-6781, 1999 (Journal Indexed in SCI Expanded)
- LXI. **Anomalous behaviour of galvanomagnetic effects in very lightly n type bulk GaAs Possible role of reverse contrast centres**  
TÜZEMEN S., GÜRBULAK B., YILDIRIM M., Doğan S.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.174, pp.467-475, 1999 (Journal Indexed in SCI Expanded)
- LXII. **Anomalous behaviour of galvanomagnetic effects in very lightly n-type bulk GaAs: Possible role of reverse-contrast centres**  
TÜZEMEN S., GÜRBULAK B., YILDIRIM M., Doğan S.  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH, vol.174, no.2, pp.467-475, 1999 (Journal Indexed in SCI)
- LXIII. **In situ optical assessment of semi-insulating iron doped InP grown by liquid encapsulated Czochralski process**  
Doğan S., TÜZEMEN S., GÜRBULAK B., Ates A., Yildirim M.  
JOURNAL OF APPLIED PHYSICS, vol.85, no.9, pp.6777-6781, 1999 (Journal Indexed in SCI)
- LXIV. **Growth and absorption properties of Dy-doped and undoped p-type TlGaSe<sub>2</sub>**  
Gurbulak B.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.68, no.3, pp.353-356, 1999 (Journal Indexed in SCI)
- LXV. **Growth and optical properties of Dy doped and undoped n-type InSe single crystal**  
Gurbulak B.  
Solid State Communications, vol.109, no.10, pp.665-669, 1999 (Journal Indexed in SCI Expanded)
- LXVI. **The optical absorption edge of p-type Tl(1-X)GaPrxSe<sub>2</sub> and TlGaSe<sub>2</sub>**  
Gurbulak B.  
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- CXXXI. **AIIBIII Tabakalı Yarıiletken Kristallerin Büyütülmesi ve Bazı Elektriksel Özelliklerinin İncelenmesi.**  
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## **Supported Projects**

GÜRBULAK B., POLATOĞLU A., SARITAŞ S., KAVAZ E., GÜRBULAK B. B. , Project Supported by Higher Education Institutions, AR-GE LABORATUVARLARINDA VE YÜKSEK ZİRVELERDE KOZMİK IŞINLARIN TESPİTİ, 2021 - Continues

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Tuysuz E., Özkan H., Gürbulak B., Albayrak Ş., Orak T., Project Supported by Other Official Institutions, I Don't Use Phone While Walking or Driving, 2021 - 2021

ÖZKAN H., GÜRBULAK B., Project Supported by Higher Education Institutions, 1st INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES ISFAS2021 ve 1st INTERNATIONAL CONGRESS ON NATURAL SCIENCES ICNAS2021, 2021 - 2021

GÜRBULAK B., Project Supported by Higher Education Institutions, 2020 YILINDA ULAKBİM UBYTDEN ALINAN YAYIN TEŞVİK DESTEĞİ, 2021 - 2021

GÜRBULAK B., ÖZBEY K. Y. , Project Supported by Higher Education Institutions, TlGaS<sub>2</sub> ve TlGa<sub>1-x</sub>FexS<sub>2</sub> Tabakalı Yarıiletkenlerin Büyütülmesi Yapısal Karakterizasyonu ve Raman Spektrumu Özelliklerinin İncelenmesi The Growth of TlGaS<sub>2</sub> and TlGa<sub>1-x</sub>FexS<sub>2</sub> Layered Semiconductors Investigation of Structural Characterization and Raman Spectrum Properties, 2018 - 2019

GÜROL A., KURUCU Y., YILMAZ D., ŞAKAR E., GÜRBULAK B., FİDAN M., Project Supported by Higher Education Institutions, Fizik Bölümünün Ar-Ge ve İnnovasyon Potansiyelinin Geliştirilmesi, 2018 - 2019

YILDIRIM M., SARITAŞ S., GÜRBULAK B., KUNDAKÇI M., TURGUT E., Project Supported by Higher Education Institutions, RADYO FREKANS (RF) MAGNETRON SIÇRATMA VE KİMYASAL PÜSKÜRTME TEKNİKLERİ İLE BÜYÜTÜLEN DEMİR OKSİT İNCE FİLMLEİN FİZİKSEL VE GALVANOMANYETİK ÖZELLİKLERİNİN İNCELENMESİ, 2016 - 2017

GÜRBULAK B., DUMAN S., Project Supported by Higher Education Institutions, GASE VE GASE:CD TABAKALI KRİSTALLERİN YAPISAL VE ELEKTRİKSEL ÖZELLİKLERİ, 2016 - 2017

GÜRBULAK B., Project Supported by Higher Education Institutions, GATE VE GATE:CD TEK KRİSTALLERİNİN YAPISAL KARAKTERİZASYONU, 2016 - 2016

GÜRBULAK B., Project Supported by Higher Education Institutions, GATE, GASE, GATE(1-X)SE(X) TABAKALI YARİLETKENLERİNİN BÜYÜTÜLMESİ VE ARAŞTIRMA LABORATUVARININ OPTİK KARAKTERİZASYON AÇISINDAN DONATILMASI, 2013 - 2015

GÜRBULAK B., Project Supported by Higher Education Institutions, GATE(1-X)SE(X) KRİSTALLERİNİN BÜYÜTÜLMESİ VE YAPISAL ANALİZİ, 2012 - 2014

GÜRBULAK B., Project Supported by Higher Education Institutions, KATKILI VE KATKISIZ A3 B4 YERİİLETKENLERİN BÜYÜTÜLMESİ, 2011 - 2012

GÜRBULAK B., Project Supported by Higher Education Institutions, A3 B4 TEK KRİSTALLERİN BÜYÜTÜLMESİ VE YAPISAL ANALİZİ, 2011 - 2012

GÜRBULAK B., Project Supported by Higher Education Institutions, A3 B6 VE A3 B3 C6 YARI İLETKEN BİLEŞİKLERDE OPTİK ÖZELLİKLERİNİN İNCELENMESİ VE ARAŞTIRMA LABARATUARININ OPTİK KARAKTERİZASYON AÇISINDAN DONATILMASI, 2010 - 2012

## **Activities in Scientific Journals**

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Evaluation Committee Member, 2020 - Continues  
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, Advisory Committee Member, 2020 - Continues  
SCIERA Journal of Physics, Committee Member, 2016 - Continues

## **Edit Congress and Symposium Activities**

1st INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES (ISFAS-2021)  
10-12 EYLÜL 2021, Erzurum, TÜRKİYE, Session Moderator, Erzurum, Turkey, 2021  
1st INTERNATIONAL CONGRESS ON NATURAL SCIENCES (ICNAS-2021), Session Moderator, Erzurum, Turkey, 2021  
1st INTERNATIONAL CONGRESS ON NATURAL SCIENCES (ICNAS-2021) 10-12 SEPTEMBER 2021, Session Moderator,  
Erzurum, Turkey, 2021  
1st INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES (ISFAS-2021)  
10-12 EYLÜL 2021, Erzurum, TÜRKİYE, Session Moderator, Erzurum, Turkey, 2021  
1st INTERNATIONAL CONGRESS ON NATURAL SCIENCES (ICNAS-2021) 10-12 SEPTEMBER 2021, Session Moderator,  
Erzurum, Turkey, 2021  
1st INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES (ISFAS-2021)  
10-12 EYLÜL 2021, Erzurum, TÜRKİYE, Session Moderator, Erzurum, Turkey, 2021  
I. Karadeniz Multi disiplinler Kongresi, Panelists, Giresun, Turkey, 2019

## **Citations**

Total Citations (WOS):971  
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## **Awards**

Gürbulak B., En çok yayın yapan bilim adamı, Atatürk Üniversitesi Rektörlüğü, November 1999

## **Representation and Promotion Activities**

Institutional Promotion, ATATÜRK UNIVERSITY FACULTY OF SCIENCE, Turkey, Erzurum, 2021 - 2021  
Institutional Promotion, ATATÜRK UNIVERSITY FACULTY OF SCIENCE, Turkey, Erzurum, 2021 - 2021  
Institutional Representation, ERZURUM İL MİLLİ EĞİTİM MÜDÜRLÜĞÜ, Turkey, Erzurum, 2021 - 2021

## **Non Academic Experience**

Municipality, Erzurum Büyükşehir Belediyesi, İşyerlerinde İş Sağlığı ve Güvenliği