

# Prof. Hasan EFEOĞLU

## Personal Information

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## International Researcher IDs

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## Education Information

Undergraduate, Ataturk University, Fen Fakültesi, Fizik, Turkey 1979 - 1993

Doctorate, University of Manchester Institute of Science and Technology (UMIST), Elektronik, United Kingdom 1988 - 1992

Postgraduate, Ataturk University, Fen Bilimleri, Fizik, Turkey 1985 - 1987

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Structural, Optical and Electrical Characterization of MBE Grown Erbium Doped GaAs, Si and SixGe1-x, University Of Manchester Institute Of Science And Technology (Umist), Department Of Electrical Engineering And Electronics, Centre For Electronic Materials, 1992

Postgraduate, DC metoduyla Hall ve Özdirenç ölçme sistemi ve n tipi Si için özdirenç ve mobilitenin tayini, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 1987

## Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences

## Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2004 - Continues

Professor, Ataturk University, Fen Fakültesi, Fizik, 2002 - 2004

Associate Professor, Ataturk University, Fen Fakültesi, Fizik, 1997 - 2002

Assistant Professor, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 1994 - 1997

Research Assistant, Ataturk University, Fen Fakültesi, Fizik, 1985 - 1993

## Academic and Administrative Experience

Head of Department, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2005 - 2011

## Courses

Elektrik-Elektronik Mühendisliği Malzeme, Undergraduate, 2022 - 2023  
Yarıiletken Proses Teknolojisi, Doctorate, 2022 - 2023  
Elektronik Devrelerde ve Düşük Akım Ölçüm Sistemlerinde Gürültü Azaltma Teknikleri, Postgraduate, 2022 - 2023  
Elektronik Devrelerde ve Düşük Akım Ölçüm Sistemlerinde Gürültü Azaltma Teknikleri, Postgraduate, 2022 - 2023  
Kathal Elektronik, Undergraduate, 2022 - 2023  
Yarıiletken proses Teknolojisi, Doctorate, 2021 - 2022  
Yarıiletkenlerde Rekombinasyon Merkezlerinin Karakterizasyonu, Postgraduate, 2022 - 2023  
Kathal Elektronik, Undergraduate, 2022 - 2023  
Elektrik-Elektronik Mühendisliği Malzeme, Undergraduate, 2021 - 2022  
Elektronik DEVRELERDE VE DÜŞÜK AKIM ÖLÇÜM SİSTEMLERİNDE GÜRÜLTÜ AZALTMA TEKNİKLERİ, Postgraduate, 2020 - 2021  
Tümleşik Devre Tasarımı, Undergraduate, 2018 - 2019  
Kathal Elektronik, Undergraduate, 2019 - 2020  
YARIİLETKEN AYGITLAR VE ELEKTRİKSEL KARAKTERİZASYON TEKNİKLERİ, Postgraduate, 2018 - 2019  
Elektronik Devreler, Undergraduate, 2018 - 2019  
Material Science, Undergraduate, 2019 - 2020  
Görsel Programlama, Undergraduate, 2017 - 2018  
Fotovoltaik enerji dönüşümü için, Postgraduate, 2017 - 2018  
YARIİLETKEN PROSES TEKNOLOJİSİ (DAYTAM), Doctorate, 2017 - 2018  
Yarıiletkenlerde Rekombinasyon Merkezleri., Postgraduate, 2017 - 2018

## Advising Theses

Efeoğlu H., Cu-doped TiO<sub>2</sub> thin film based memristors and characterization, Doctorate, B.ALIZADEH(Student), 2021  
Efeoğlu H., Metal ZnO ve ZnO<sub>1-x</sub> metal yapısının memristiv davranışının elektriksel ve optik karakterizasyonu, Doctorate, F.GÜL(Student), 2017  
Efeoğlu H., Vanadyum oksitte eşik anahtarlama olayı ve hafıza seçme aygıt için uygulama potansiyeli, Postgraduate, M.VAFADAR(Student), 2015  
Efeoğlu H., Titanyum dioksit nano filmlerin memristiv özelliği ve fabrikasyon parametreleriyle ilişkisi, Postgraduate, S.GÜLLÜLÜ(Student), 2014  
Efeoğlu H., İnce filmlerde plazma tabanlı iyon aşındırma ve Au filme uygulanması, Postgraduate, M.GÜL(Student), 2014  
Efeoğlu H., Mo/n-Si Schottky yapılarında engel yüksekliği dağılımının ısı işlem ile değişimi, Postgraduate, H.ERTAŞ(Student), 2011  
Efeoğlu H., Er/p-Si Schottky yapılarında engel yüksekliği ve Gauss dağılımının sıcaklığa bağlılığı, Postgraduate, Y.BABACAN(Student), 2011  
Efeoğlu H., ZnO nanoyapıların elektrokimyasal depolama yöntemiyle büyütülmesi ve optik karakterizasyonu, Postgraduate, T.Karabey(Student), 2011  
Efeoğlu H., DC reaktif magnetron için anahtarlama güç kaynağı tasarımı ve ZnO yapıların üretimi, Postgraduate, G.KEVEN(Student), 2009  
Efeoğlu H., SiO<sub>2</sub>/Si üzerinde Zn-Al tabakalı yapıların termal oksidasyonu ve ZnO nano yapıların oluşturulması, Postgraduate, M.Fatih(Student), 2009  
Efeoğlu H., Al-Au/GaTe schottky yapıların sıcaklığa bağlı akım-gerilim (I-V-T) ve kapasite-gerilim (C-V-T) karakteristikleri, Doctorate, M.GÜLNAHAR(Student), 2008  
Efeoğlu H., Bilgisayar destekli fotoluminesans ölçüm sisteminde monokromatörün mikrodenetleyici ve adım motor ile kontrolü, Postgraduate, F.KELEK(Student), 2008

Efeoğlu H., Darbeli anodizasyon tekniği ile gözenekli ve Si ve gözenekli Si tabanlı fabry-perot yapılarının üretimi: Yapısal ve optik özelliklerinin incelenmesi, Doctorate, T.KARACALI(Student), 2003  
Efeoğlu H., Tabakalı Gate yarı iletken bileşiğinin optik özelliklerini fotoluminesans tekniği ile incelenmesi, Postgraduate, M.GÜLNAHAR(Student), 2000  
Efeoğlu H., Ga Te tabakalı kristalinin büyütülmesi ve omik kontak optimizasyonu, Doctorate, C.COŞKUN(Student), 2000  
Efeoğlu H., Keithley 610C elektrometresinin akım-gerilim ölçümleri için bilgisayar kontrolüne alınması, Postgraduate, T.Karacalı(Student), 1998  
Efeoğlu H., Hall olayı ve rezistivite ölçümleri için enstrumentasyon, Postgraduate, C.COŞKUN(Student), 1996

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An experimental study: Dependence of Schottky diode parameters on Schottky contact area size**  
EFEOĞLU H., Turut A., Gül M.  
Optical Materials, vol.142, 2023 (SCI-Expanded)
- II. **Thermal sensing capability and current-voltage-temperature characteristics in Pt/ n -GaP/Al/Ti Schottky diodes**  
EFEOĞLU H., Turut A.  
Journal of Vacuum Science and Technology B, vol.41, no.2, 2023 (SCI-Expanded)
- III. **Current-Voltage Characteristics of Pt Metal-based and PtSi Silicide-based n-Si Schottky Diodes over a Wide Measuring Temperature Range**  
EFEOĞLU H., Turut A., Gül M.  
Journal of Electronic Materials, vol.52, no.2, pp.1410-1418, 2023 (SCI-Expanded)
- IV. **Thermal sensitivity and current-voltage-temperature characteristics in Pt/epitaxy n-Si/n(+ )Si structures as a function of Schottky contact area**  
EFEOĞLU H., Turut A., Gul M.  
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, vol.40, no.5, 2022 (SCI-Expanded)
- V. **Current-voltage-measurement temperature characteristics depending on the barrier-forming contact metal thickness in Au/Cu/n-Si/Au-Sb/Ni rectifying contacts**  
EFEOĞLU H., Turut A.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.143, 2022 (SCI-Expanded)
- VI. **A highly stable temperature sensor based on Au/Cu/n-Si Schottky barrier diodes dependent on the inner metal thickness**  
EFEOĞLU H., TÜRÜT A.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.55, no.18, 2022 (SCI-Expanded)
- VII. **Analysis and Comparison of the Main Electrical Characteristics of Cu/n-type Si metal semiconductor structures at wide temperature Range**  
BAKKALOĞLU Ö. F., EJDERHA K., EFEOĞLU H., KARATAŞ Ş., TÜRÜT A.  
SILICON, vol.14, no.7, pp.3493-3500, 2022 (SCI-Expanded)
- VIII. **Formation of a Ti -> TiO<sub>2</sub>-graded layer and its effect on the memristive properties of TiO<sub>x</sub>(/Ti/TiO<sub>x</sub>) structures**  
Gul M., EFEOĞLU H.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.10, pp.7423-7434, 2022 (SCI-Expanded)
- IX. **Effect of the Al<sub>2</sub>O<sub>3</sub> interfacial layer thickness on the measurement temperature-induced I-V characteristics in Au/Ti/Al<sub>2</sub>O<sub>3</sub>/n-GaAs structures**  
TÜRÜT A., Karabulut A., EFEOĞLU H.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.17, pp.22680-22688, 2021 (SCI-Expanded)
- X. **AN APPLICATION of R-HiPIMS METHOD for TiO<sub>2</sub>-AND TiO<sub>2</sub>:Cu-BASED MEMRISTORS: CONTROLLING Cu DOPING USING DC PULSE METHOD**

Arashloo B. A., EFEOĞLU H.

Surface Review and Letters, vol.28, no.2, 2021 (SCI-Expanded)

- XI. **Temperature dependence of electrical parameters of the Cu/n-Si metal semiconductor Schottky structures**  
BAKKALOĞLU Ö. F., EJDERHA K., EFEOĞLU H., KARATAŞ Ş., TÜRÜT A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1224, 2021 (SCI-Expanded)
- XII. **Single-step, large-area, variable thickness sputtered WS<sub>2</sub> film-based field effect transistors**  
Acar M., Mobtakeri S., Efeoğlu H., Ertuğrul M., Gür E.  
CERAMICS INTERNATIONAL, vol.46, no.17, pp.26854-26860, 2020 (SCI-Expanded)
- XIII. **Characterization of electrical transport and properties of an Al/porous Si (PS)/p-Si/Al heterojunction**  
GÜLNAHAR M., KARACALI T., EFEOĞLU H.  
Journal of Alloys and Compounds, vol.797, pp.859-864, 2019 (SCI-Expanded)
- XIV. **The Analytical Investigation of Quantum Capacitance on Graphene Oxide Based Memristor**  
Arashloo B. A., EFEOĞLU H., Ahmadi M. T.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.14, no.8, pp.1083-1087, 2019 (SCI-Expanded)
- XV. **The current-voltage characteristics of the ferroelectric p- $\text{YMnO}_3$  thin film/bulk p-Si heterojunction over a broad measurement temperature range**  
TÜRÜT A., COŞKUN M., COŞKUN F. M., POLAT Ö., DURMUŞ Z., Caglar M., EFEOĞLU H.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.782, pp.566-575, 2019 (SCI-Expanded)
- XVI. **ZnO and ZnO<sub>1-x</sub> based thin film memristors: The effects of oxygen deficiency and thickness in resistive switching behavior**  
GÜL F., EFEOĞLU H.  
CERAMICS INTERNATIONAL, vol.43, no.14, pp.10770-10775, 2017 (SCI-Expanded)
- XVII. **Deposition of ZnO thin films by RF&DC magnetron sputtering on silicon and porous-silicon substrates for pyroelectric applications**  
Cicek K., KARACALI T., EFEOĞLU H., Cakmak B.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.260, pp.24-28, 2017 (SCI-Expanded)
- XVIII. **Electrical characteristics of atomic layer deposited Au/Ti/Al<sub>2</sub>O<sub>3</sub>/n-GaAs MIS structures over a wide measurement temperature**  
TURUT A., KARABULUT A., EFEOĞLU H.  
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.19, pp.424-433, 2017 (SCI-Expanded)
- XIX. **On the studies of capacitance-voltage-temperature and deep level characteristics of an Au/p-GaTe Schottky diode**  
GÜLNAHAR M., EFEOĞLU H., Sahin M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.694, pp.1019-1025, 2017 (SCI-Expanded)
- XX. **Bipolar resistive switching and conduction mechanism of an Al/ZnO/Al-based memristor**  
GÜL F., EFEOĞLU H.  
SUPERLATTICES AND MICROSTRUCTURES, vol.101, pp.172-179, 2017 (SCI-Expanded)
- XXI. **Resistive switching of reactive sputtered TiO<sub>2</sub> based memristor in crossbar geometry**  
EFEOĞLU H., Gullulu S., Karacali T.  
APPLIED SURFACE SCIENCE, vol.350, pp.10-13, 2015 (SCI-Expanded)
- XXII. **Characterization of Porous Silicon Fabry-Perot Optical Sensors for Reflectivity and Transmittivity Measurements**  
Hasar U. C., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T., EFEOĞLU H., ERTUĞRUL M., Barroso J. J.  
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.21, no.4, 2015 (SCI-Expanded)
- XXIII. **Porous Si Based Al Schottky Structures on p(+)-Si: A Possible Way for Nano Schottky Fabrication**  
GÜLNAHAR M., KARACALI T., EFEOĞLU H.  
ELECTROCHIMICA ACTA, vol.168, pp.41-49, 2015 (SCI-Expanded)
- XXIV. **Identification of Gases by Porous Optical Sensors Using Reflectivity Difference and Wavelength Shift**  
Hasar U. C., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T., EFEOĞLU H., ERTUĞRUL M., Barroso J. J.

- IEEE PHOTONICS TECHNOLOGY LETTERS, vol.27, no.6, pp.596-599, 2015 (SCI-Expanded)
- XXV. **THE CURRENT-VOLTAGE CHARACTERISTICS OF THE Au/MBE n-GaAs SCHOTTKY DIODES IN A WIDE TEMPERATURE RANGE**  
EFEÖĞLU H., TÜRÜT A.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.27, no.19, 2013 (SCI-Expanded)
- XXVI. **Temperature dependent I-V characteristics of an Au/n-GaAs Schottky diode analyzed using Tung's model**  
Korucu D., TÜRÜT A., EFEÖĞLU H.  
PHYSICA B-CONDENSED MATTER, vol.414, pp.35-41, 2013 (SCI-Expanded)
- XXVII. **Novel Design of Porous Silicon Based Sensor for Reliable and Feasible Chemical Gas Vapor Detection**  
KARACALI T., Hasar U. C., ÖZBEK İ. Y., ORAL E. A., EFEÖĞLU H.  
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.31, no.2, pp.295-305, 2013 (SCI-Expanded)
- XXVIII. **Evaluation of lateral barrier height of inhomogeneous photolithography-fabricated Au/n-GaAs Schottky barrier diodes from 80 K to 320 K**  
Korucu D., EFEÖĞLU H., Turut A., Altindal S.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.15, no.5, pp.480-485, 2012 (SCI-Expanded)
- XXIX. **The effect of silicon loss and fabrication tolerance on spectral properties of porous silicon Fabry-Perot cavities in sensing applications**  
Hasar U., Özbek İ. Y., Oral E. A., Karacali T., Efeoğlu H.  
Optics Express, vol.20, no.20, pp.22208-22223, 2012 (SCI-Expanded)
- XXX. **Multiple-barrier distribution behavior of Mo/p-GaTe fabricated with sputtering**  
GÜLNAHAR M., EFEÖĞLU H.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.27, pp.7317-7323, 2011 (SCI-Expanded)
- XXXI. **Anodization of aluminium thin films on p(++ )Si and annihilation of strong luminescence from Al<sub>2</sub>O<sub>3</sub>**  
EFEÖĞLU H., KARACALI T., Meral K., ERDOĞAN İ. Y., ONGANER Y.  
JOURNAL OF LUMINESCENCE, vol.130, no.1, pp.157-162, 2010 (SCI-Expanded)
- XXXII. **Single and Double Fabry-Perot Structure Based on Porous Silicon for Chemical Sensors**  
KARACALI T., ALANYALIOĞLU M., EFEÖĞLU H.  
IEEE SENSORS JOURNAL, vol.9, no.12, pp.1667-1672, 2009 (SCI-Expanded)
- XXXIII. **Double barrier nature of Au/p-GaTe Schottky contact: Linearization of Richardson plot**  
GÜLNAHAR M., EFEÖĞLU H.  
SOLID-STATE ELECTRONICS, vol.53, no.9, pp.972-978, 2009 (SCI-Expanded)
- XXXIV. **Temperature-dependent current-voltage characteristics of the Au/n-InP diodes with inhomogeneous Schottky barrier height**  
Cimilli F. E., SAĞLAM M., EFEÖĞLU H., Turut A.  
PHYSICA B-CONDENSED MATTER, vol.404, pp.1558-1562, 2009 (SCI-Expanded)
- XXXV. **Electrodeposited ZnCoNi alloys**  
KARAHAN İ. H., EFEÖĞLU H., BAKKALOĞLU Ö. F.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.3, no.3, pp.181-184, 2009 (SCI-Expanded)
- XXXVI. **Temperature-dependent current-voltage and capacitance-voltage characteristics of the Ag/n-InP/In Schottky diodes**  
Cimilli F. E., EFEÖĞLU H., SAĞLAM M., Tueruet A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.20, no.2, pp.105-112, 2009 (SCI-Expanded)
- XXXVII. **Electrical transport properties of p-GaTe grown by directional freezing method**  
EFEÖĞLU H., KARACALI T., ABAY B., YOGURTÇU Y.  
Semiconductor Science and Technology, vol.19, no.3, pp.523-530, 2004 (SCI-Expanded)
- XXXVIII. **Temperature dependence of reverse bias capacitance-voltage characteristics of Sn/p-GaTe Schottky diodes**  
COSKUN C., Aydogan S., Efeoğlu H.

- SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.19, no.2, pp.242-246, 2004 (SCI-Expanded)
- XXXIX. **A simple method producing shadow masks used in electrical characterization techniques**  
COŞKUN C., Efeoglu H.  
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES, vol.46, no.3, pp.410-412, 2003 (SCI-Expanded)
- XL. **Temperature dependence of current-voltage characteristics of Sn/p-GaTe Schottky diodes**  
COŞKUN C., Biber M., EFEOĞLU H.  
Applied Surface Science, vol.211, pp.360-366, 2003 (SCI-Expanded)
- XLI. **Barrier characteristics of Cd/p-GaTe Schottky diodes based on I-V-T measurements**  
Abay B., ÇANKAYA G., GÜDER H. S., Efeoglu H., YOĞURTÇU Y. K.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.18, no.2, pp.75-81, 2003 (SCI-Expanded)
- XLII. **Aging of porous silicon and the origin of blue shift**  
KARACALI T., ÇAKMAK B., EFEOĞLU H.  
Optics Express, vol.11, no.10, pp.1237-1242, 2003 (SCI-Expanded)
- XLIII. **Formation of low and stable ohmic contacts to GaTe layered crystal**  
COŞKUN C., Efeoglu H.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.18, no.1, pp.23-27, 2003 (SCI-Expanded)
- XLIV. **Anharmonicity in GaTe layered crystals**  
AYDINLI A., Gasanly N., Uka A., EFEOĞLU H.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.37, no.12, pp.1303-1309, 2002 (SCI-Expanded)
- XLV. **Low-temperature visible photoluminescence spectra of Tl<sub>2</sub>GaInSe<sub>4</sub> layered crystals**  
ABAY B., EFEOĞLU H., YOĞURTÇU Y. K., ALİEVA M.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.745-749, 2001 (SCI-Expanded)
- XLVI. **Solvent effect on the ground and excited state dipole moments of fluorescein**  
ACEMIOĞLU B., ARIK M., EFEOĞLU H., Onganer Y.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.548, pp.165-171, 2001 (SCI-Expanded)
- XLVII. **Photoluminescence characterization of GaTe single crystals**  
Güder H., ABAY B., EFEOĞLU H., Yoğurtçu Y.  
Journal of Luminescence, vol.93, no.3, pp.243-248, 2001 (SCI-Expanded)
- XLVIII. **Urbach Martienssen Tails in the Absorption Spectra of Layered Ternary Semiconductor TlGaS<sub>2</sub>**  
ABAY B., GÜDER H. S., EFEOĞLU H., YOĞURTÇU Y. K.  
Physica Status Solidi B-Basic Solid State Physics, vol.227, pp.469-476, 2001 (SCI-Expanded)
- XLIX. **Temperature dependence of the optical energy gap and Urbach-Martienssen's tail in the absorption spectra of the layered semiconductor Tl<sub>2</sub>GaInSe<sub>4</sub>**  
ABAY B., Güder H., EFEOĞLU H., Yoğurtçu Y.  
Journal of Physics and Chemistry of Solids, vol.62, no.4, pp.747-752, 2001 (SCI-Expanded)
- L. **Excitonic Absorption and Urbach Martienssen s Tails in Gd Doped and Undoped p type GaSe**  
ABAY B., GÜDER H. S., EFEOĞLU H., YOĞURTÇU Y. K.  
Semiconductor Science And Technology, vol.15, pp.535-541, 2000 (SCI-Expanded)
- LI. **Current-voltage and capacitance-voltage characteristics of metallic polymer/InSe(:Er) Schottky contacts**  
ABAY B., ONGANER Y., SAĞLAM M., EFEOĞLU H., Türüt A., Yoğurtçu Y.  
Microelectronic Engineering, vol.51, pp.689-693, 2000 (SCI-Expanded)
- LII. **Effect of hydrostatic pressure on the characteristic parameters of Au/n-GaAs Schottky-barrier diodes**  
ÇANKAYA G., UÇAR N., Ayyildiz E., Efeoglu H., Turut A., Tuzemen S., YOĞURTÇU Y. K.  
PHYSICAL REVIEW B, vol.60, no.23, pp.15944-15947, 1999 (SCI-Expanded)
- LIII. **Magnetic studies on electrodeposited Cu<sub>1-x</sub>Cox alloy films**  
Bakkaloğlu Ö., Karahan I., EFEOĞLU H., YILDIRIM M., ÇEVİK U., Yoğurtcu Y.  
Journal of Magnetism and Magnetic Materials, vol.190, no.3, pp.193-198, 1998 (SCI-Expanded)
- LIV. **Urbach-Martienssen tails in Er-doped and undoped n-type InSe**  
ABAY B., Güder H., EFEOĞLU H., Yoğurtçu Y.

Physica B: Condensed Matter, vol.254, pp.148-155, 1998 (SCI-Expanded)

- LV. Influence of temperature and phase transitions on the Urbach's tails of absorption spectra for TlInS<sub>2</sub> single crystals**  
Abay B., GÜDER H. S., Efeoglu H., YOĞURTÇU Y. K.  
JOURNAL OF APPLIED PHYSICS, vol.84, no.7, pp.3872-3879, 1998 (SCI-Expanded)
- LVI. Thermal stability of Cr-Ni-Co alloy Schottky contacts on MBE n-GaAs**  
Turut A., GÜMÜŞ A., Sağlam M., Tuzemen S., Efeoglu H., YALÇIN N., MİSSOUS M.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.13, no.7, pp.776-780, 1998 (SCI-Expanded)
- LVII. Low-temperature photoluminescence of n-InSe layer semiconductor crystals**  
ABAY B., EFEOĞLU H., Yoğurtçu Y.  
Materials Research Bulletin, vol.33, no.9, pp.1401-1410, 1998 (SCI-Expanded)
- LVIII. Characteristics of metallic polymer and Au Schottky contacts on cleaved surfaces of InSe(:Er).**  
ABAY B., ONGANER Y., SAĞLAM M., EFEOĞLU H., TURUT A., YOĞURTÇU Y. K.  
SOLID-STATE ELECTRONICS, vol.41, no.6, pp.924-926, 1997 (SCI-Expanded)
- LIX. Influences of thermal annealing, the electrolyte pH, and current density on the interface state density distribution of anodic MOS structures**  
SAĞLAM M., TURUT A., Nuhoglu Ç., EFEOĞLU H., Kılıçoğlu T., EBEOĞLU M. A.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.65, no.1, pp.33-37, 1997 (SCI-Expanded)
- LX. Influences of thermal annealing, the electrolyte pH, and current density on the interface state density distribution of anodic MOS structures**  
SAĞLAM M., TURUT A., Nuhoglu Ç., EFEOĞLU H., Kılıçoğlu T., EBEOĞLU M. A.  
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## Memberships / Tasks in Scientific Organizations

MFAG Grup Yürütme Kurulu, Member of Science Committee, 2022 - Continues, Turkey

Matematik, Fizik Araştırma Destek Grubu (MFAG), Executive Board Member, 2021 - Continues, Turkey

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## Metrics

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## Non Academic Experience

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