

## Prof. SELİM ACAR

### Personal Information

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1997 - 2003

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 1993 - 1997

Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, Fizik Pr., Turkey 1987 - 1993

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, GaAs ve InP yarıiletkenlerde elektriksel karakterizasyon, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2003

Postgraduate, Yüksek sıcaklık fırını tasarımı ve yapımı, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 1996

### Research Areas

Physics of Plasmas, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

### Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2011 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2008 - 2011

Expert, Gazi University, Fen Fakültesi, Fizik, 1993 - 2008

### Academic and Administrative Experience

Academic Performance D. Board Member, Gazi University, 2021 - Continues

Rectorate Commissioner, Gazi University, 2019 - Continues

Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2017 - Continues

Gazi University, Fen Fakültesi, 2012 - 2013

Gazi University, Fen Fakültesi, Fizik Bölümü, 2011 - 2012

## Advising Theses

- Acar S., Karaciğer Hastalıkları ile İlişkili Belirli Gazların Elektronik Burun Teknolojisi ile Tespiti, Postgraduate, M.KEREM(Student), 2022
- ACAR S., Investigation of no gas detection parameters under the uv light in Zn1-xSNxO mos sensors, Postgraduate, A.Orkun(Student), 2020
- ACAR S., DC reaktör yapısındaki manyetik alanların farklı ağ koşulları altında incelenmesi ve yapının geliştirilmesi, Postgraduate, K.GHORBANYAN(Student), 2020
- ACAR S., The Effect Of Nickel And Indium Dopant On Gas Sensing Properties Of Zno Semiconductor, Doctorate, B.Soltabayev(Student), 2019
- ACAR S., Zn1-xSNxO mos sensörlerinde uv ışığı altında no gaz algılama parametrelerinin incelenmesi, Postgraduate, A.ORKUN(Student), 2019
- ACAR S., ZnO yarıiletkenine nikel ve indiyum katkılamanın gaz sensör algılama özelliklerine etkisi, Doctorate, B.SOLTABAYEV(Student), 2019
- ACAR S., Investgation Of Dielectric And Gas Sensing Properties For Co Gas Of Al Doped Zno Grown By Sol-Gel Spin-Coating Method, Postgraduate, T.NURTAYEVA(Student), 2019
- ACAR S., Kompakt zeolit modifiyeli gaz sensörünün tasarımı üretimi ve karakterizasyonu, Doctorate, I.KARADUMAN(Student), 2017
- ACAR S., Investigation Of Zn1-Xcuxo Complex Mos Sensors To Gas Detection Features Depends On Temperature, Postgraduate, T.ÇORLU(Student), 2017
- ACAR S., Kompakt Zeolite Modifiyeli Gaz Sensörünün Tasarımı Üretimi Ve Karakterizasyonu, Doctorate, I.Karaduman(Student), 2017
- ACAR S., Investigation Of Gas Sensing Parameters Of Ni Doped Zno Metal Oxide Semiconductors, Postgraduate, H.SÜREL(Student), 2017
- ACAR S., Determination Of Electrical Parameters Of Si Based Semiconductors Depending Nitrogen Dioxide (No2), Postgraduate, M.MÜRŞİT(Student), 2016
- ACAR S., Determination Of Gas Sensing Properties Of Hfo2 Based Semiconductors Gas Sensors Under Uv Light Irradiation, Postgraduate, Ö.BARİN(Student), 2016
- ACAR S., The effect of Co2 and co gases on the electrical properties of Al/Al2o3/p-Si structure, Postgraduate, N.DEMİREL(Student), 2013
- ACAR S., Peculiarities of novel gas discharge electronic device based on nanoporous zeolite material, Doctorate, K.KÖSEOĞLU(Student), 2013
- ACAR S., Electrical characterization of graphene structures in carbon oxide environment, Postgraduate, I.KARADUMAN(Student), 2013
- ACAR S., GaP yarı iletkeninde optik ve elektriksel karakterizasyon, Postgraduate, M.DEMİR(Student), 2011
- ACAR S., Physical analyse of electromagnetic compatibility tests and, assesment of conducted and radiated tests to 900/1800 mhz gsm bandwith, Postgraduate, T.KARABULUT(Student), 2011
- ACAR S., RADYOTERAPİDE SİMETRİK VE ASİMETRİK ALAN DOZİMETRİ PARAMETRELERİNİN ARAŞTIRILMASI, Postgraduate, T.TAŞ(Student), 2010

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

- I. **Varying electrical and dielectric properties of Ni:SnO<sub>2</sub> films by MWCNTs and GNPs coating**  
SARF F., Er I. K. , Ajaq A., ÇAĞIRTEKİN A. O. , YAKAR E., ACAR S.  
PHYSICA SCRIPTA, vol.97, no.2, 2022 (Journal Indexed in SCI)
- II. **Substrate critical effect on the structural and H<sub>2</sub> Gas sensing characteristics of solution-processed Zn<sub>0.075</sub>Cu<sub>0.025</sub>O films**  
SARF F., Er I. K. , YAKAR E., ACAR S.  
MATERIALS RESEARCH EXPRESS, vol.8, no.12, 2021 (Journal Indexed in SCI)
- III. **Effect of Ni and Al doping on structural, optical, and CO<sub>2</sub> gas sensing properties of 1D ZnO nanorods**

**produced by hydrothermal method**

Bulut F., Ozturk O., ACAR S., Yildirim G.

MICROSCOPY RESEARCH AND TECHNIQUE, 2021 (Journal Indexed in SCI)

- IV. **Low-energy ball milling effect on the dielectric response and electrical transport mechanisms of natural clinoptilolite zeolites in a wide temperature range**  
Cura Ö., Ajjaq A., ÇAĞIRTEKİN A. O. , ÇAVDAR Ş., ACAR S.  
Materials Today Communications, vol.29, 2021 (Journal Indexed in SCI)
- V. **Bias voltage effect on impedance, modulus and dielectric spectroscopies of HfO<sub>2</sub>-interlayered Si-based Schottky diodes at room temperature**  
ÇAĞIRTEKİN A. O. , Ajjaq A., Barin O., ACAR S.  
PHYSICA SCRIPTA, vol.96, no.11, 2021 (Journal Indexed in SCI)
- VI. **Influence of isovalent Cd doping concentration and temperature on electric and dielectric properties of ZnO films**  
Altun B., Ajjaq A., ÇAĞIRTEKİN A. O. , Er I. K. , SARF F., ACAR S.  
CERAMICS INTERNATIONAL, vol.47, no.19, pp.27251-27266, 2021 (Journal Indexed in SCI)
- VII. **Investigation of indium insertion effects on morphological, optical, electrical impedance and modulus properties of ZnO thin films**  
Soltabayev B., Çağırtekin A. O. , Mentbayeva A., Yıldırım M. A. , Acar S.  
THIN SOLID FILMS, vol.734, 2021 (Journal Indexed in SCI)
- VIII. **Effect of Cd dopant on structural, optical and CO<sub>2</sub> gas sensing properties of ZnO thin film sensors fabricated by chemical bath deposition method**  
Altun B., Er I. K. , Çağırtekin A. O. , Ajjaq A., Sarf F., Acar S.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.9, 2021 (Journal Indexed in SCI)
- IX. **Complex electrical impedance and modulus characterizations of ZnO:Sn thin films in a wide temperature range**  
Er I. K. , ÇAĞIRTEKİN A. O. , Ajjaq A., YILDIRIM M. A. , Ates A., ACAR S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.10, pp.13594-13609, 2021 (Journal Indexed in SCI)
- X. **The Dependence of the Gas Sensing Properties of ZnO Thin Films on the Zinc Concentration**  
Er I. K. , Yıldız I. A. , Bayraktar T., Acar S., Ates A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2021 (Journal Indexed in SCI)
- XI. **Structural, morphological and gas sensing properties of Zn<sub>1-x</sub>Sn<sub>x</sub>O thin films by SILAR method**  
Er I. K. , YILDIRIM M. A. , ÖRKÇÜ H. H. , ATEŞ A., ACAR S.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.4, 2021 (Journal Indexed in SCI)
- XII. **Synthesis of Al/HfO<sub>2</sub>/p-Si Schottky diodes and the investigation of their electrical and dielectric properties**  
Er I. K. , Çağırtekin A. O. , Artuc M., Acar S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.2, pp.1677-1690, 2021 (Journal Indexed in SCI)
- XIII. **The role of rare-earth metal (Y, Ru and Cs)-doped ZnO thin films in NH<sub>3</sub> gas sensing performances at room temperature**  
SARF F., Er I. K. , YAKAR E., ACAR S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.13, pp.10084-10095, 2020 (Journal Indexed in SCI)
- XIV. **Influence of Temperature on the Peculiarities of Electret State in Microporous Zeolite**  
Soltabayev B., KURT H. H. , Acar S., Salamov B. G.  
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.11, 2019 (Journal Indexed in SCI)
- XV. **The effect of indium doping concentration on structural, morphological and gas sensing properties of IZO thin films deposited SILAR method**  
Soltabayev B., YILDIRIM M. A. , Ates A., ACAR S.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.101, pp.28-36, 2019 (Journal Indexed in SCI)

- XVI. **Influence of Ni doping on the nitric oxide gas sensing properties of Zn<sub>1-x</sub>Ni<sub>x</sub>O thin films synthesized by silar method**  
Soltabayev B., Er I. K. , Surel H., Coskun A., Yildirim M. A. , Ates S., Acar S.  
MATERIALS RESEARCH EXPRESS, vol.6, no.8, 2019 (Journal Indexed in SCI)
- XVII. **The effect of deposition time on the structural, morphological and H<sub>2</sub>S gas sensing properties of the V<sub>2</sub>O<sub>5</sub> nanostructures deposited by hydrothermal method**  
YILDIRIM M. A. , Yildirim S. T. , Cagirtekin A. O. , Karademir M., Er I. K. , COŞKUN A., Ates A., ACAR S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.13, pp.12215-12223, 2019 (Journal Indexed in SCI)
- XVIII. **Carbon monoxide gas sensing performance of ZnO:Al thin films prepared using different solvent-stabilizer combinations**  
Er I. K. , Nurtayeva T., Sbeta M., Cagirtekin A. O. , Acar S., Yildiz A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.11, pp.10560-10570, 2019 (Journal Indexed in SCI)
- XIX. **Low-level NO gas sensing properties of Zn<sub>1-x</sub>Sn<sub>x</sub>O nanostructure sensors under UV light irradiation at room temperature**  
Er I. K. , Cagirtekin A. O. , Corlu T., YILDIRIM M. A. , ATEŞ A., ACAR S.  
BULLETIN OF MATERIALS SCIENCE, vol.42, no.1, 2019 (Journal Indexed in SCI)
- XX. **Enhancing the Co gas sensing properties of ZnO thin films with the decoration of MWCNTs**  
Ozutok F., Er I. K. , Acar S., Demiri S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.1, pp.259-265, 2019 (Journal Indexed in SCI)
- XXI. **Influence of Different Aluminum Sources on the NH<sub>3</sub> Gas-Sensing Properties of ZnO Thin Films**  
Ozutok F., Karaduman I., Demiri S., ACAR S.  
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.5, pp.2648-2657, 2018 (Journal Indexed in SCI)
- XXII. **Low level NO gas sensing properties of Cu doped ZnO thin films prepared by SILAR method**  
Corlu T., Karaduman I., Galioglu S., AKATA KURÇ B., Yildirim M. A. , Ates A., Acar S.  
MATERIALS LETTERS, vol.212, pp.292-295, 2018 (Journal Indexed in SCI)
- XXIII. **Zeolite A coated Zn<sub>1-x</sub>Cu<sub>x</sub>O MOS sensors for NO gas detection**  
Galioglu S., Karaduman I., Corlu T., AKATA KURÇ B., YILDIRIM M. A. , ATEŞ A., Acar S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.2, pp.1356-1368, 2018 (Journal Indexed in SCI)
- XXIV. **The effect of different doping elements on the CO gas sensing properties of ZnO nanostructures**  
Karaduman I., Yildirim M. A. , Yildirim S. T. , Ates A., Ozdemir Y. A. , Acar S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.23, pp.18154-18163, 2017 (Journal Indexed in SCI)
- XXV. **Green synthesis of gamma-Fe<sub>2</sub>O<sub>3</sub> nanoparticles for methane gas sensing**  
Karaduman I., Gungor A. A. , NADAROĞLU H., ALTUNDAŞ A., ACAR S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.21, pp.16094-16105, 2017 (Journal Indexed in SCI)
- XXVI. **Room-temperature ammonia gas sensor based on reduced graphene oxide nanocomposites decorated by Ag, Au and Pt nanoparticles**  
Karaduman I., ER E., ÇELİKKAN H., ERK N., ACAR S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.722, pp.569-578, 2017 (Journal Indexed in SCI)
- XXVII. **The gas sensing properties of hafnium oxide thin films depending on the annealing environment**  
Karaduman I., ACAR S.  
MODERN PHYSICS LETTERS B, vol.31, no.30, 2017 (Journal Indexed in SCI)
- XXVIII. **Hydrogen Gas Sensing Characteristics of Nanostructured NiO Thin Films Synthesized by SILAR Method**  
Karaduman I., Corlu T., YILDIRIM M. A. , ATEŞ A., ACAR S.  
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.7, pp.4017-4023, 2017 (Journal Indexed in SCI)

- XXIX. **Effect of Doping Materials on the Low-Level NO Gas Sensing Properties of ZnO Thin Films**  
Corlu T., Karaduman I., YILDIRIM M. A. , ATEŞ A., ACAR S.  
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.7, pp.3995-4002, 2017 (Journal Indexed in SCI)
- XXX. **NH<sub>3</sub> sensing properties of nanostructure ZnO thin film prepared by silar method**  
Corlu T., Karaduman I., YILDIRIM M. A. , ATEŞ A., ACAR S.  
HIGH TEMPERATURES-HIGH PRESSURES, vol.46, no.2, pp.155-165, 2017 (Journal Indexed in SCI)
- XXXI. **Low-Concentration NO<sub>2</sub> Gas Sensor Based on HfO<sub>2</sub> Thin Films Irradiated by Ultraviolet Light**  
Karaduman I., Barin O., ÖZER M., ACAR S.  
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3914-3920, 2016 (Journal Indexed in SCI)
- XXXII. **UV-assisted room-temperature gas sensing by HfO<sub>2</sub> thin films**  
Karaduman I., Barin O., ACAR S.  
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.68, no.11, pp.1334-1340, 2016 (Journal Indexed in SCI)
- XXXIII. **Fabrication and characterization of PVA/ODA-MMT-poly(MA-alt-1-octadecene)-g-graphene oxide e-spun nanofiber electrolytes and their response to bone cancer cells**  
Rzayev Z. M. O. , Salimi K., Bunyatova U., ACAR S., Salamov B., TÜRK M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.61, pp.257-268, 2016 (Journal Indexed in SCI)
- XXXIV. **Novel Colloidal Nanofiber Electrolytes From PVA-Organoclay/Poly(MA-alt-MVE), and Their NaOH and Ag-Carrying Polymer Complexes**  
Simsek M., Rzayev Z. M. O. , ACAR S., Salamov B., Bunyatova U.  
POLYMER ENGINEERING AND SCIENCE, vol.56, no.2, pp.204-213, 2016 (Journal Indexed in SCI)
- XXXV. **A new generation gas sensing material based on high-quality graphene**  
Karaduman I., ER E., ÇELİKKAN H., ACAR S.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.221, pp.1188-1194, 2015 (Journal Indexed in SCI)
- XXXVI. **The effect of ultraviolet irradiation on the ultra-thin HfO<sub>2</sub> based CO gas sensor**  
Karaduman I., Barin O., YILDIZ D. E. , ACAR S.  
JOURNAL OF APPLIED PHYSICS, vol.118, no.17, 2015 (Journal Indexed in SCI)
- XXXVII. **Novel multifunctional colloidal carbohydrate nanofiber electrolytes with excellent conductivity and responses to bone cancer cells**  
Gokmen F. O. , Rzayev Z. M. O. , Salimi K., Bunyatova U., ACAR S., Salamov B., TÜRK M.  
CARBOHYDRATE POLYMERS, vol.133, pp.624-636, 2015 (Journal Indexed in SCI)
- XXXVIII. **CO<sub>2</sub> gas detection properties of a TiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> heterostructure under UV light irradiation**  
Karaduman I., Demir M., YILDIZ D. E. , ACAR S.  
PHYSICA SCRIPTA, vol.90, no.5, 2015 (Journal Indexed in SCI)
- XXXIX. **Effects of temperature and electric field on the transport mechanisms in the porous microstructure**  
Koseoglu K., Karaduman I., Demir M., Ozer M., ACAR S., Salamov B. G.  
SUPERLATTICES AND MICROSTRUCTURES, vol.81, pp.97-106, 2015 (Journal Indexed in SCI)
- XL. **UV light activated gas sensor for NO<sub>2</sub> detection**  
Karaduman I., YILDIZ D. E. , Sincar M. M. , ACAR S.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.28, pp.43-47, 2014 (Journal Indexed in SCI)
- XLI. **Hydrogen discharges operating at atmospheric pressure in a semiconductor gas discharge system**  
Aktas K., ACAR S., Salamov B. G.  
PLASMA SOURCES SCIENCE & TECHNOLOGY, vol.20, no.4, 2011 (Journal Indexed in SCI)
- XLII. **Influence of the microstructure on the charge transport in semiconductor gas discharge electronic devices**  
Sadiq Y., Aktas K., ACAR S., Salamov B. G.  
SUPERLATTICES AND MICROSTRUCTURES, vol.47, no.6, pp.648-660, 2010 (Journal Indexed in SCI)
- XLIII. **Stokes shift and band gap bowing in In<sub>x</sub>Ga<sub>1-x</sub>N (0.060 ≤ x ≤ 0.105) grown by metalorganic vapour phase epitaxy**  
Yildiz A., Dagdelen F., ACAR S., LİŞESİVDİN S. B. , Kasap M., AYDOĞDU Y., Bosi M.  
ACTA PHYSICA POLONICA A, vol.113, no.2, pp.731-739, 2008 (Journal Indexed in SCI)

- XLIV. **Determination of two-dimensional electron and hole gas carriers in AlGa<sub>N</sub>/Ga<sub>N</sub>/Al<sub>N</sub> heterostructures grown by Metal Organic Chemical Vapor Deposition**  
ACAR S., LİŞESİVDİN S. B. , Kasap M., Oezcelik S., Oezbay E.  
THIN SOLID FILMS, vol.516, no.8, pp.2041-2044, 2008 (Journal Indexed in SCI)
- XLV. **The effect of strain relaxation on electron transport in undoped Al<sub>0.25</sub>Ga<sub>0.75</sub>N/GaN heterostructures**  
LİŞESİVDİN S. B. , Yildiz A., ACAR S., Kasap M., Oezcelik S., Oezbay E.  
PHYSICA B-CONDENSED MATTER, vol.399, no.2, pp.132-137, 2007 (Journal Indexed in SCI)
- XLVI. **Electron transport in Ga-rich In<sub>x</sub>Ga<sub>1-x</sub>N alloys**  
Yildiz A., LİŞESİVDİN S. B. , ACAR S., Kasap M., Bosi M.  
CHINESE PHYSICS LETTERS, vol.24, no.10, pp.2930-2933, 2007 (Journal Indexed in SCI)
- XLVII. **Electronic transport characterization of AlGa<sub>N</sub>/Ga<sub>N</sub> heterostructures using quantitative mobility spectrum analysis**  
LİŞESİVDİN S. B. , Yildiz A., ACAR S., Kasap M., Ozcelik S., Ozbay E.  
APPLIED PHYSICS LETTERS, vol.91, no.10, 2007 (Journal Indexed in SCI)
- XLVIII. **Temperature-dependent electron transport in In<sub>0.5</sub>Ga<sub>0.5</sub>P/GaAs grown by MOVPE**  
ACAR S., Yildiz A., Kasap M., Bosi M.  
CHINESE PHYSICS LETTERS, vol.24, no.8, pp.2373-2375, 2007 (Journal Indexed in SCI)
- XLIX. **Scattering analysis of 2DEG carrier extracted by QMSA in undoped Al<sub>0.25</sub>Ga<sub>0.75</sub>N/GaN heterostructures**  
LİŞESİVDİN S. B. , ACAR S., Kasap M., Ozcelik S., Gokden S., Ozbay E.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.22, no.5, pp.543-548, 2007 (Journal Indexed in SCI)
- L. **Quantitative mobility spectrum analysis for determination of electron and magneto transport properties of Te-doped GaSb**  
ACAR S., Kasap M., Isik B., Ozcelik S., Tugluoglu N., Karadeniz S.  
Chinese Physics Letters, vol.22, no.9, pp.2363-2366, 2005 (Journal Indexed in SCI Expanded)
- LI. **Temperature-dependent galvanomagnetic measurements on doped InSb and InAs grown by liquid encapsulated czochralski**  
Kasap M., ACAR S., Ozcelik S., Karadeniz S., Tugluoglu N.  
Chinese Physics Letters, vol.22, no.5, pp.1218-1221, 2005 (Journal Indexed in SCI Expanded)
- LII. **The temperature dependence of electron and magneto transport properties in Te-doped InSb**  
Kasap M., ACAR S.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.201, no.14, pp.3113-3120, 2004 (Journal Indexed in SCI)
- LIII. **Temperature-dependent barrier characteristics of inhomogeneous in/p-Si (100) Schottky barrier diodes**  
Tugluoglu N., Karadeniz S., ACAR S., Kasap M.  
CHINESE PHYSICS LETTERS, vol.21, no.9, pp.1795-1798, 2004 (Journal Indexed in SCI)
- LIV. **Gaussian distribution of inhomogeneous barrier height in Ag/p-Si (100) Schottky barrier diodes**  
ACAR S., Karadeniz S., Tugluoglu N., Selcuk A., Kasap M.  
APPLIED SURFACE SCIENCE, vol.233, pp.373-381, 2004 (Journal Indexed in SCI)
- LV. **Conductivity, Hall and magnetoresistance effect measurements on SiGaAs and InP**  
ACAR S., Kasap M.  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH, vol.201, no.7, pp.1551-1557, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Effect of Post-Annealing Treatment on the Structural, Optical, and Electrical Properties of V2O5 Thin Films**  
İnceçam S., Saraç A., Erdil E., Çağırtekin A. O. , Acar S.

Journal of Science PART A: ENGINEERING AND INNOVATION, vol.8, no.2, pp.299-307, 2021 (Other Refereed National Journals)

- II. **Low Concentration NO Gas Detection Of SnO<sub>2</sub> And Zn<sub>0.50</sub>Sn<sub>0.50</sub> Sensors**  
Karaduman Er I., ÇORLU T., YILDIRIM M. A. , Ates A., ACAR S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.4, pp.1189-1196, 2020 (Journal Indexed in ESCI)
- III. **Investigation of Hydrogen Gas Sensing Properties of HfO<sub>2</sub> Based Sensor Produced By Atomic Layer Deposition Method**  
Karaduman I., Barin O., YILDIZ D. E. , ACAR S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.19, no.3, pp.223-229, 2016 (Journal Indexed in ESCI)
- IV. **Atomik Tabaka Biriktirme Metodu ile Üretilen HfO<sub>2</sub> Tabanlı Sensörlerin Hidrojen Gaz Algılama Özelliklerinin İncelenmesi**  
Karaduman I., Barin Ö., YILDIZ D. E. , ACAR S.  
Journal of Politechnic, vol.19, no.3, pp.223-229, 2016 (Other Refereed National Journals)
- V. **Low Concentration of CO Gas Sensor by Atomic Layer Deposition**  
DEMİR M., BARİN Ö., KARADUMAN I., YILDIZ D. E. , ACAR S.  
Journal of Physical and Application, vol.4, no.8, pp.488-492, 2015 (Refereed Journals of Other Institutions)
- VI. **Al Al<sub>2</sub>O<sub>3</sub> P Si Yapısının Co Gaz Algılama Özellikleri**  
KARADUMAN I., DEMİREL N., YILDIZ D. E. , ACAR S.  
Journal of Polytechnic, 2015 (Other Refereed National Journals)
- VII. **The Co Gas Sensing Properties of Al/Al(2)O(3)/P-Si Structure**  
Karaduman I., Demirel N., Yildiz D. E. , Acar S.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.18, no.2, pp.79-84, 2015 (Journal Indexed in ESCI)
- VIII. **Frequency and Temperature Dependent Interface States and Series Resistance of Au CdTe Schottky Diodes**  
MAMMADOV T. S. , KANBUR ÇAVUŞ H., ŞAFAK ASAR Y., ALTINDAL Ş., ACAR S., AKHMEDZADE N. D.  
Azerbaijan Journal of Physics, Fizika, vol.13, no.4, pp.219-223, 2007 (Refereed Journals of Other Institutions)
- IX. **Effect of periodic magnetic field to the dynamics of vibrating beam**  
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