

Prof. SELİM ACAR

Personal Information

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International Researcher IDs

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ScopusID: 6701827296

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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

Faculty Board Member, Gazi University, Fen Fakültesi, Fizik, 2023 - Continues
Academic Performance D. Board Member, Gazi University, 2021 - Continues
Rectorate Commissioner, Gazi University, 2019 - Continues
Head of Department, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2017 - 2022
Gazi University, Fen Fakültesi, 2012 - 2013
Gazi University, Fen Fakültesi, Fizik Bölümü, 2011 - 2012

Advising Theses

Acar S., DETECTION OF CERTAIN GASES ASSOCIATED WITH LIVER DISEASES WITH ELECTRONIC NOSE TECHNOLOGY, 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., INVESTIGATION OF MAGNETIC FIELDS IN DC REACTOR STRUCTURE UNDER DIFFERENT NETWORK CONDITIONS AND IMPROVEMENT OF STRUCTURE, 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., Investigation 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 bandwidth, Postgraduate, T.KARABULUT(Student), 2011
ACAR S., RADYOTERAPİDE SİMETRİK VE ASİMETRİK ALAN DOZİMETRİ PARAMETRELERİNİN ARAŞTIRILMASI, Postgraduate, T.TAŞ(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **H₂S gas sensing behavior of 2-D V₂O₅ nanowire network structure**
YILDIRIM M. A., TUNA YILDIRIM S., Karademir M., ÇAĞIRTEKİN A. O., ATEŞ A., ACAR S.
Ceramics International, vol.50, no.24, pp.53296-53308, 2024 (SCI-Expanded)
- II. **Chemical precursor-dependent dual effect of doping on the gas-sensing performance of metal oxide semiconducting materials**
Ajjaq A., Bulut F., ÖZTÜRK Ö., ACAR S.
SENSORS AND ACTUATORS B-CHEMICAL, vol.420, 2024 (SCI-Expanded)
- III. **Flexible NH₃ gas sensors based on ZnO nanostructures deposited on kevlar substrates via hydrothermal method**
AYDAŞ B., ATILGAN A., Ajjaq A., ACAR S., ÖKTEM M. F., YILDIZ A.
Ceramics International, vol.50, no.18, pp.32477-32489, 2024 (SCI-Expanded)
- IV. **Performance evaluation of SILAR deposited Rb-Doped ZnO thin films for photodetector applications**
Tekin S., ÜNVEROĞLU ABDİOĞLU B., Karaduman Er I., ACAR S.
Journal of Sol-Gel Science and Technology, vol.111, no.3, pp.891-908, 2024 (SCI-Expanded)
- V. **CO gas sensing properties of Cd(OH)₂/CdO thin films synthesized by SILAR method**
Müezzinoğlu E. D., TUNA YILDIRIM S., ÇAĞIRTEKİN A. O., ATEŞ A., ACAR S., YILDIRIM M. A.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.109, no.3, pp.639-653, 2024 (SCI-Expanded)
- VI. **Advanced NH₃ Detection by 1D Nanostructured La:ZnO Sensors with Novel Intrinsic p-n Shifting and Ultrahigh Baseline Stability**
Ajjaq A., Bulut F., Ozturk O., ACAR S.
ACS SENSORS, vol.9, pp.895-911, 2024 (SCI-Expanded)
- VII. **Effect of SILAR cycle on gas sensing properties of In₂O₃ thin films for CO gas sensor**
Horoz B., TUNA YILDIRIM S., Soltabayev B., ATEŞ A., ACAR S., YILDIRIM M. A.
Journal of Materials Science: Materials in Electronics, vol.35, no.2, 2024 (SCI-Expanded)
- VIII. **Enhanced linear and nonlinear optical characteristics of cerium (Ce) doped ZnO film**
Tekin S., ÜNVEROĞLU ABDİOĞLU B., Bozer C., Karaduman Er I., ACAR S.
Ceramics International, 2024 (SCI-Expanded)
- IX. **ZnO/SnO₂ based composite heterostructure for NO₂ gas sensing properties**
Karaduman Er I., Uysal S., ATEŞ A., ACAR S.
Ceramics International, 2024 (SCI-Expanded)
- X. **ZnO seed-mediated hydrothermal growth of advanced 1-D ZnO and 2-D CuO nanostructured oxide ceramics for gas sensing applications**
Ajjaq A., Barin Ö., ÇAĞIRTEKİN A. O., Soltabayev B., ACAR S.
CERAMICS INTERNATIONAL, vol.49, no.24, pp.40853-40865, 2023 (SCI-Expanded)
- XI. **Room-temperature gas sensing properties of Zn, Sn and Cu-doped TiO₂ films**
ÇORLU T., Tekin S., Karaduman Er I., ACAR S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.34, 2023 (SCI-Expanded)
- XII. **Temperature-dependent dielectric properties of p-n heterojunction diodes based on hydrothermally synthesized ZnO nanostructures**
ÇAĞIRTEKİN A. O., Ajjaq A., Barin Ö., ACAR S.
PHYSICA SCRIPTA, vol.98, no.10, 2023 (SCI-Expanded)
- XIII. **Surface activation of Si-based Schottky diodes by bacterial biosynthesized AgInSe₂ trimetallic alloy nanoparticles with evidenced negative capacitance and enhanced electro-dielectric performance**
ÇAKICI T., Ajjaq A., ÇAĞIRTEKİN A. O., Barin Ö., ÖZDAL M., ACAR S.
APPLIED SURFACE SCIENCE, vol.631, 2023 (SCI-Expanded)
- XIV. **Ultrasensitive nitric oxide gas sensors based on Ti-doped ZnO nanofilms prepared by RF magnetron sputtering system**
Soltabayev B., Ajjaq A., Yergaliuly G., Kadyrov Y., Turlybekuly A., ACAR S., Mentbayeva A.
Journal of Alloys and Compounds, vol.953, 2023 (SCI-Expanded)
- XV. **Some sol-gel processing parameters effect on the properties of dip coated TiO₂ thin films**

Karaduman Er I., Uysal S., ATEŞ A., ACAR S.

Journal of Materials Science: Materials in Electronics, vol.34, no.20, 2023 (SCI-Expanded)

- XVI. **Structural, optical, and gas sensing properties of CdSe thin films deposited by SILAR method**
Er I. K., Ilbak S. N., Ates A., ACAR S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.36, pp.27062-27075, 2022 (SCI-Expanded)
- XVII. **Pivotal role of nucleation layers in the hydrothermally-assisted growth of ZnO and its H-2 gas sensing performance**
Barin O., Ajjaq A., ÇAĞIRTEKİN A. O., Er I. K., YILDIRIM M. A., ATEŞ A., ACAR S.
SENSORS AND ACTUATORS B-CHEMICAL, vol.371, 2022 (SCI-Expanded)
- XVIII. **Effect of reaction pH on the microstructural, optical and electrical behaviour of ZnO/CuO heterostructured nanocomposite films**
Er I. K., Ajjaq A., ATEŞ A., ACAR S.
BULLETIN OF MATERIALS SCIENCE, vol.45, no.4, 2022 (SCI-Expanded)
- XIX. **Quick NO Gas Sensing by Ti-Doped Flower-Rod-like ZnO Structures Synthesized by the SILAR Method**
Soltabayev B., Yergaliuly G., Ajjaq A., Beldeubayev A., Acar S., Bakenov Z., Mentbayeva A.
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.36, pp.41555-41570, 2022 (SCI-Expanded)
- XX. **Investigation of temperature-dependent electrical parameters in a Schottky barrier diode with multi-walled carbon nanotube (MWCNT) interface**
Ezgin H., Demir E., ACAR S., ÖZER M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.147, 2022 (SCI-Expanded)
- XXI. **Effect of Ni and Al doping on structural, optical, and CO₂ gas sensing properties of 1D ZnO nanorods produced by hydrothermal method**
Bulut F., Ozturk O., ACAR S., Yildirim G.
MICROSCOPY RESEARCH AND TECHNIQUE, vol.85, no.4, pp.1502-1517, 2022 (SCI-Expanded)
- XXII. **Varying electrical and dielectric properties of Ni:SnO₂ films by MWCNTs and GNPs coating**
SARF F., Er I. K., Ajjaq A., ÇAĞIRTEKİN A. O., YAKAR E., ACAR S.
PHYSICA SCRIPTA, vol.97, no.2, 2022 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **Substrate critical effect on the structural and H-2 Gas sensing characteristics of solution-processed Zn_{0.075}Cu_{0.025}O films**
SARF F., Er I. K., YAKAR E., ACAR S.
MATERIALS RESEARCH EXPRESS, vol.8, no.12, 2021 (SCI-Expanded)
- XXV. **Bias voltage effect on impedance, modulus and dielectric spectroscopies of HfO₂-interlayered Si-based Schottky diodes at room temperature**
ÇAĞIRTEKİN A. O., Ajjaq A., Barin O., ACAR S.
PHYSICA SCRIPTA, vol.96, no.11, 2021 (SCI-Expanded)
- XXVI. **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 (SCI-Expanded)
- XXVII. **Effect of Cd dopant on structural, optical and CO₂ 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 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)

- XXIX. **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 (SCI-Expanded)
- XXX. **The Dependence of the Gas Sensing Properties of ZnO Thin Films on the Zinc Concentration**
Er I. K., Yildiz I. A., Bayraktar T., Acar S., Ates A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.8122-8135, 2021 (SCI-Expanded)
- XXXI. **Structural, morphological and gas sensing properties of Zn_{1-x}Sn_xO thin films by SILAR method**
Er I. K., YILDIRIM M. A., ÖRKCÜ H. H., ATEŞ A., ACAR S.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.4, 2021 (SCI-Expanded)
- XXXII. **Synthesis of Al/HfO₂/p-Si Schottky diodes and the investigation of their electrical and dielectric properties**
Er I. K., Cagirtekin A. O., Artuc M., Acar S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.2, pp.1677-1690, 2021 (SCI-Expanded)
- XXXIII. **The role of rare-earth metal (Y, Ru and Cs)-doped ZnO thin films in NH₃ 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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)
- XXXVI. **Influence of Ni doping on the nitric oxide gas sensing properties of Zn_{1-x}Ni_xO 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 (SCI-Expanded)
- XXXVII. **The effect of deposition time on the structural, morphological and H₂S gas sensing properties of the V₂O₅ 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 (SCI-Expanded)
- XXXVIII. **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 (SCI-Expanded)
- XXXIX. **Low-level NO gas sensing properties of Zn_{1-x}Sn_xO 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 (SCI-Expanded)
- XL. **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 (SCI-Expanded)

- XLII. Influence of Different Aluminum Sources on the NH₃ 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 (SCI-Expanded)
- XLIII. 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 (SCI-Expanded)
- XLIV. Zeolite A coated Zn_{1-x}Cu_xO 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 (SCI-Expanded)
- XLV. 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 (SCI-Expanded)
- XLVI. Green synthesis of gamma-Fe₂O₃ 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 (SCI-Expanded)
- XLVII. 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 (SCI-Expanded)
- XLVIII. 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 (SCI-Expanded)
- XLIX. 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 (SCI-Expanded)
- L. 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 (SCI-Expanded)
- LI. NH₃ 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 (SCI-Expanded)
- LII. Low-Concentration NO₂ Gas Sensor Based on HfO₂ 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 (SCI-Expanded)
- LIII. UV-assisted room-temperature gas sensing by HfO₂ thin films**
Karaduman I., Barin O., ACAR S.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.68, no.11, pp.1334-1340, 2016 (SCI-Expanded)
- LIV. 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 (SCI-Expanded)
- LIV. 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 (SCI-Expanded)
- LV. 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 (SCI-Expanded)
- LVI. **The effect of ultraviolet irradiation on the ultra-thin HfO₂ based CO gas sensor**
Karaduman I, Barin O, YILDIZ D. E., ACAR S.
JOURNAL OF APPLIED PHYSICS, vol.118, no.17, 2015 (SCI-Expanded)
- LVII. **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 (SCI-Expanded)
- LVIII. **CO₂ gas detection properties of a TiO₂/Al₂O₃ heterostructure under UV light irradiation**
Karaduman I, Demir M., YILDIZ D. E., ACAR S.
PHYSICA SCRIPTA, vol.90, no.5, 2015 (SCI-Expanded)
- LIX. **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 (SCI-Expanded)
- LX. **UV light activated gas sensor for NO₂ detection**
Karaduman I, YILDIZ D. E., Sincar M. M., ACAR S.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.28, pp.43-47, 2014 (SCI-Expanded)
- LXI. **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 (SCI-Expanded)
- LXII. **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 (SCI-Expanded)
- LXIII. **Determination of two-dimensional electron and hole gas carriers in AlGa_n/Ga_n/Al_n 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 (SCI-Expanded)
- LXIV. **Stokes shift and band gap bowing in In_xGa_{1-x}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 (SCI-Expanded)
- LXV. **The effect of strain relaxation on electron transport in undoped Al_{0.25}Ga_{0.75}N/GaN heterostructures**
LİŞESİVDİN S. B., Yildiz A., ACAR S., Kasap M., Oezcelik S., Oezbay E.
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- LXVI. **Electron transport in Ga-rich In_xGa_{1-x}N alloys**
Yildiz A., LİŞESİVDİN S. B., ACAR S., Kasap M., Bosi M.
CHINESE PHYSICS LETTERS, vol.24, no.10, pp.2930-2933, 2007 (SCI-Expanded)
- LXVII. **Electronic transport characterization of AlGa_n/Ga_n heterostructures using quantitative mobility spectrum analysis**
LİŞESİVDİN S. B., Yildiz A., ACAR S., Kasap M., Oezcelik S., Ozbay E.
APPLIED PHYSICS LETTERS, vol.91, no.10, 2007 (SCI-Expanded)
- LXVIII. **Temperature-dependent electron transport in In_{0.5}Ga_{0.5}P/GaAs grown by MOVPE**
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Non Academic Experience

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