

# Prof. ŞÜKRÜ ÇAVDAR

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABI-6447-2020

ScopusID: 8674163300

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## Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2002 - 2004

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1994 - 2000

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1989 - 1993

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Talyum tabanlı yüksek sıcaklık süperiletkenlerin elektrik ve manyetik özelliklerinin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2004

Postgraduate, Dört boyutlu ising modelin creutz cellular automation ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1998

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2018 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2012 - 2018

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2009 - 2012

Expert, Diğer (Kurumlar,hastaneler Vb.), Kurumlar, Enerji Ve Tabii Kaynaklar Bakanlığı, 2000 - 2009

## Academic and Administrative Experience

Gazi University, Fen Bilimleri Enstitüsü, 2016 - 2018

Gazi University, Fen Fakültesi, 2015 - 2016

## Courses

Physics , Undergraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022

Physics I, Undergraduate, 2024 - 2025, 2023 - 2024

Nanoteknolojiye Giriş 1, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023

Nanoteknolojiye Giriş II, Doctorate, 2024 - 2025, 2023 - 2024

Atom Fiziği, Undergraduate, 2023 - 2024

## Advising Theses

Çavdar Ş., CHARACTERIZATION OF REDUCED GRAPHENE OXIDES SYNTHESIZED BY DIFFERENT METHODS, Postgraduate, T.ÖZAL(Student), 2022

Çavdar Ş., CHARACTERIZATION OF Al/ZnO/p-Si/Al PHOTODIODE FABRICATED BY SILAR METHOD, Postgraduate, Y.ŞAHİN(Student), 2022

Çavdar Ş., Arda L., INVESTIGATION OF THE EFFECT OF ZnCo<sub>2</sub>O<sub>4</sub> NANO PARTICLE ADDITIVE ON THE CAPACITIVE PROPERTIES OF GELATIN MOS STRUCTURE, Postgraduate, Ü.Yeşim(Student), 2022

Çavdar Ş., Investigation of electrical properties of Cd doped ZnO thin films produced by SILAR method, Postgraduate, B.TURAN(Student), 2022

ÇAVDAR Ş., The Investigation Of Bi-Ga Partial Replacment Effect On Magnetic, Mechanical And Microstructural Properties Of Bi(1,8-X)Pb<sub>0,2</sub>gaxsr<sub>2</sub>cacu<sub>2</sub>oy Superconductor, Postgraduate, S.İZMİRLİ(Student), 2019

ÇAVDAR Ş., Investigation Of Thermal Properties Of Bi<sub>1,8</sub>-Xgaxpb<sub>0,2</sub>sr<sub>2</sub>cacu<sub>2</sub>oy Glass Ceramic System, Postgraduate, D.BULUT(Student), 2019

ÇAVDAR Ş., Investigation Of Superconductivity Properties Of Ybco Tapes Which Have Artificial Pinning Centers Formed By Laser, Doctorate, N.TURAN(Student), 2018

Çavdar Ş., Rutenyum katkılı BI-2212 cam seramik yapının termal ve mekanik özelliklerinin incelenmesi, Postgraduate, T.GÖKÇEN(Student), 2015

Çavdar Ş., TlPb<sub>0,3</sub>Sr<sub>2</sub>Ca<sub>1-x</sub>SexCu<sub>2</sub>Oy FARKLI ORANLARDA SELENYUM KATKISI YAPILMIŞ TALYUM TABANLI YÜKSEK SICAKLIK SÜPERİLETKENLERİN YAPISAL, FİZİKSEL VE ELEKTRİKSEL ÖZELLİKLERİNİN İNCELENMESİ, Postgraduate, N.KOL(Student), 2014

Çavdar Ş., PbSe KATKILI BSCCO CAM SERAMİĞİNİN TERMAL, MEKANİK VE MİKROYAPISAL ÖZELLİKLERİNİN İNCELENMESİ, Postgraduate, E.DENİZ(Student), 2014

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

- I. **Impact of voltage and frequency on electrical characteristics of MIS capacitors with triphenylamine layer**  
Izmirli S., ÇAVDAR Ş., ORUÇ P., Eymur S., TUĞLUOĞLU N.  
PHYSICA B-CONDENSED MATTER, vol.696, 2025 (SCI-Expanded)
- II. **Frequency-dependent capacitance and conductance characteristics and current transport mechanisms of Schottky diodes with TPA-IFA organic interfacial layer**  
Çavdar Ş., Oruç P., Eymur S., Tuğluoğlu N.  
PHYSICA SCRIPTA, vol.99, no.9, pp.1-17, 2024 (SCI-Expanded)
- III. **Dielectric Properties and Electrical Characteristics of a Triphenylamine Thin Film Deposited onto a Silicon Substrate via Spin Coating**  
Izmirli S., ÇAVDAR Ş., Dos O., KORALAY H., Tugluoglu N.

ACS Applied Electronic Materials, vol.6, no.7, pp.5057-5066, 2024 (SCI-Expanded)

- IV. **The impact of temperature and frequency on negative capacitance and dielectric attributes in NiCo<sub>2</sub>O<sub>4</sub> bulk ceramic**  
Dos O., TURAN N., Tuğluoğlu N., ÇAVDAR Ş.  
Ceramics International, vol.50, no.13, pp.24487-24498, 2024 (SCI-Expanded)
- V. **Investigation of photosensitive and photodetector characteristics of n-TPA-IFA/p-Si heterojunction structure**  
Çavdar Ş., Oruç P., Eymur S., Tuğluoğlu N.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.35, no.1022, pp.1-19, 2024 (SCI-Expanded)
- VI. **Structural and electrical characterization of Cd-doped ZnO thin films produced on p-type Si substrate by SILAR technique**  
ÇAVDAR Ş., Şahin Y., TURAN N., KORALAY H., Tuğluoğlu N.  
Journal of Materials Science: Materials in Electronics, vol.34, no.25, 2023 (SCI-Expanded)
- VII. **Optoelectronic Properties of Triphenylamine Organic Thin Film Layered Al/p-Si /TPA/Al Heterojunction for Photodiode Application**  
ÇAVDAR Ş., Izmirli S., KORALAY H., TURAN N., Eymur S., Tuğluoğlu N.  
ECS Journal of Solid State Science and Technology, vol.12, no.4, 2023 (SCI-Expanded)
- VIII. **Investigation of dielectric properties of amorphous, anatase, and rutile TiO<sub>2</sub> structures**  
Oruç P., Turan N., Çavdar Ş., Koralay H., Tuğluoğlu N.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, no.498, pp.1-13, 2023 (SCI-Expanded)
- IX. **Impedance Spectroscopy Characterization of ZnCo<sub>2</sub>O<sub>4</sub> Ceramics Obtained by the Sol-Gel Method**  
ÇAVDAR Ş., Demiroolmez Y., TURAN N., KORALAY H., Tuğluoğlu N.  
Transactions of the Indian Ceramic Society, vol.82, no.2, pp.136-142, 2023 (SCI-Expanded)
- X. **Analysis of voltage mid frequency-dependent series resistance and interface states of Al/ZnCo<sub>2</sub>O<sub>4</sub>: Gelatin/n-Si diode**  
ÇAVDAR Ş., Demiroolmez Y., TURAN N., KORALAY H., TUĞLUOĞLU N.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, pp.22932-22940, 2022 (SCI-Expanded)
- XI. **Impedance Spectroscopy and Structural Characterization of Nanostructured ZnO and Hf-Doped ZnO Ceramics**  
Seckin A., Koralay H., Cavdar S., Turan N., Tuğluoğlu N.  
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.8, 2022 (SCI-Expanded)
- XII. **Highly Regular Hexagonally-Arranged Nanostructures on Ni-W Alloy Tapes upon Irradiation with Ultrashort UV Laser Pulses**  
Porta-Velilla L., Turan N., Cubero A., Shao W., Li H., de la Fuente G. F., Martinez E., Larrea A., Castro M., KORALAY H., et al.  
NANOMATERIALS, vol.12, no.14, 2022 (SCI-Expanded)
- XIII. **The Nucleation Effect of PbSe Additive on Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> delta Glass Ceramics**  
ÇAVDAR Ş., Deniz E., TURAN N., Tasci A. T., ÖZTÜRK Ö., Koralay H.  
GLASS AND CERAMICS, vol.79, no.1-2, pp.75-81, 2022 (SCI-Expanded)
- XIV. **Evaluation of superconducting features and gap coefficients for electron-phonon couplings properties of MgB<sub>2</sub> with multi-walled carbon nanotube addition**  
Kaya N., ÇAVDAR Ş., Ozturk O., Yildirim G., Koralay H.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.7, pp.3786-3800, 2022 (SCI-Expanded)
- XV. **Investigation of Trap States, Series Resistance and Diode Parameters in Al/Gelatin/n-Si Schottky Diode by Voltage and Frequency Dependent Capacitance and Conductance Analysis**  
ÇAVDAR Ş., Demiroolmez Y., TURAN N., KORALAY H., TUĞLUOĞLU N., ARDA L.  
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.2, 2022 (SCI-Expanded)
- XVI. **Low-energy ball milling effect on the dielectric response and electrical transport mechanisms of natural clinoptilolite zeolites in a wide temperature range**  
Cura Ö., Ajaq A., ÇAĞIRTEKİN A. O., ÇAVDAR Ş., ACAR S.

Materials Today Communications, vol.29, 2021 (SCI-Expanded)

- XVII. **Investigation of temperature dependent electrical and impedance characteristics of bulk Zn<sub>0.95</sub>Co<sub>0.050</sub>**  
Turan N., Oruç P., Demiroolmez Y., Seckin A., Çağırtekin A. O., Çavdar Ş., Koralay H., Tugluoglu N.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.100, no.1, pp.147-159, 2021 (SCI-Expanded)
- XVIII. **Investigation of microhardness properties of the multi-walled carbon nanotube additive MgB<sub>2</sub> structure by using the vickers method**  
Kaya N., Çavdar Ş., Öztürk Ö., Ada H., Koralay H.  
CRYOGENICS, vol.116, 2021 (SCI-Expanded)
- XIX. **AC conductivity, dielectric and electrical modulus studies of bulk Zn<sub>0.95</sub>Co<sub>0.050</sub> ceramic**  
Oruç P., Turan N., Demiroolmez Y., Seckin A., Çavdar Ş., Koralay H., Tugluoglu N.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.12, pp.15837-15850, 2021 (SCI-Expanded)
- XX. **Comparison of Vickers microhardness of undoped and Ru doped BSCCO glass ceramic materials**  
Ozturk O., Asikuzun E., Tasci A. T., Gokcen T., Ada H., KORALAY H., Cavdar Ş.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.5, pp.3957-3966, 2018 (SCI-Expanded)
- XXI. **Improvement of diode parameters in Al/n-Si Schottky diodes with Coronene interlayer using variation of the illumination intensity**  
PAKMA O., ÇAVDAR Ş., KORALAY H., TUĞLUOĞLU N., YÜKSEL Ö. F.  
PHYSICA B-CONDENSED MATTER, vol.527, pp.1-6, 2017 (SCI-Expanded)
- XXII. **Experimental and theoretical approaches for magnetic, superconducting and structural characterization of Bi(1.75)Pb(0.2)5Sr(2)Ca(2)Cu(3-x)Sn(x)O(10+y) glass ceramics**  
Koralay H., Çavdar Ş., Arslan A., Öztürk Ö., Taşçı A. T., Tuğluoğlu N.  
CRYOGENICS, vol.88, pp.17-21, 2017 (SCI-Expanded)
- XXIII. **Effect of self and dual-curing on degree of conversion and crosslink density of dual-cure core build-up materials**  
Karakış D., Yıldırım Biçer A. Z., Doğan A., Koralay H., Çavdar Ş.  
JOURNAL OF PROSTHODONTIC RESEARCH, vol.61, no.2, pp.210-216, 2017 (SCI-Expanded)
- XXIV. **Laterally Inhomogeneous Barrier Analysis Using Capacitance-Voltage Characteristics of Identically Fabricated Schottky Diodes**  
Çavdar Ş., Tuğluoğlu N., Akgul K. B., Koralay H.  
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3908-3913, 2016 (SCI-Expanded)
- XXV. **Detailed Analysis of Device Parameters by Means of Different Techniques in Schottky Devices**  
TUĞLUOĞLU N., KORALAY H., Akgul K. B., ÇAVDAR Ş.  
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.3859-3865, 2016 (SCI-Expanded)
- XXVI. **Experimental and theoretical approaches on thermal and structural properties of Zn doped BSCCO glass ceramics**  
Koralay H., Hicyilmaz O., Cavdar Ş., Ozturk O., Tasci A. T.  
MATERIALS SCIENCE-POLAND, vol.34, no.1, pp.25-32, 2016 (SCI-Expanded)
- XXVII. **A study on nucleation, crystallization kinetics, microstructure and mechanical properties of Ru-Bi partial substituted BSCCO glass ceramics**  
Ozturk O., Gokcen T., Cavdar Ş., KORALAY H., Tasci A. T.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.123, no.2, pp.1073-1082, 2016 (SCI-Expanded)
- XXVIII. **Analysis of inhomogeneous device parameters using current-voltage characteristics of identically prepared lateral Schottky structures**  
Tugluoglu N., Koralay H., Akgul K. B., Cavdar Ş.  
INDIAN JOURNAL OF PHYSICS, vol.90, no.1, pp.43-48, 2016 (SCI-Expanded)
- XXIX. **Structural, electrical and mechanical properties of selenium doped thallium based high-temperature superconductors**  
Cavdar Ş., Kol N., KORALAY H., Ozturk O., Asikuzun E., Tasci A. T.

CRYOGENICS, vol.73, pp.1-7, 2016 (SCI-Expanded)

- XXX. **Analysis of the Homogeneous Interface State Density of Identically Prepared Schottky Structures with Nano-Size Oxide Layer by Hill-Coleman Method**  
Koralay H., Tuğluoğlu N., Akgül K. B., Cavdar Ş.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.10, no.2, pp.195-199, 2015 (SCI-Expanded)
- XXXI. **Effect of Zn content on microstructure and mechanical performance in Bi<sub>1.8</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3.2-x</sub>Zn<sub>x</sub>O<sub>10+delta</sub> glass ceramic**  
Koralay H., Hicyilmaz O., Cavdar Ş., Asikuzun E., Tasci A. T., Ozturk O.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.7, pp.3116-3126, 2014 (SCI-Expanded)
- XXXII. **Structural and mechanical characterization of Bi<sub>1.75</sub>Pb<sub>0.25</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3-x</sub>Sn<sub>x</sub>O<sub>10+y</sub> superconductor ceramics using Vickers microhardness test**  
Koralay H., Arslan A., Cavdar Ş., Ozturk O., Asikuzun E., Gunen A., Tasci A. T.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.11, pp.4270-4278, 2013 (SCI-Expanded)
- XXXIII. **Effect of vanadium substitution on the microstructural and superconducting properties of Tl<sub>2</sub>Ba<sub>2</sub>Ca<sub>2-x</sub>V<sub>x</sub>Cu<sub>3</sub>O<sub>y</sub> superconductors**  
Erbilen E., Cavdar Ş., KORALAY H., Gunen A.  
PHYSICA B-CONDENSED MATTER, vol.413, pp.36-39, 2013 (SCI-Expanded)
- XXXIV. **The Effect of PbSe Addition on the Mechanical Properties of Bi-2212 Superconductors**  
Cavdar Ş., Deniz E., KORALAY H., Ozturk O., Erdem M., Gunen A.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.25, no.7, pp.2297-2307, 2012 (SCI-Expanded)
- XXXV. **Crystallization kinetic studies on Bi(1.75)Pb(0.25)Sr(2)Ca(2)Cu(3-x)Sn<sub>x</sub>O(delta) glass-ceramic by using non-isothermal technique**  
Arslan A., Koralay H., Cavdar Ş., Gunen A.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.358, no.9, pp.1190-1195, 2012 (SCI-Expanded)
- XXXVI. **Effect of Vanadium Substitution on the Dielectric Properties of Glass Ceramic Bi-2212 Superconductor**  
Cavdar Ş., KORALAY H., Altindal Ş.  
JOURNAL OF LOW TEMPERATURE PHYSICS, vol.164, pp.102-114, 2011 (SCI-Expanded)
- XXXVII. **Kinetics of non-isothermal crystallization of Bi<sub>3</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3-x</sub>Sn<sub>x</sub>O<sub>10+delta</sub> glass-ceramics**  
KORALAY H., Cavdar Ş., Aksan M. A.  
PHYSICA B-CONDENSED MATTER, vol.405, no.23, pp.4801-4805, 2010 (SCI-Expanded)
- XXXVIII. **The electrical transport properties and Hall effect measurements on a (TBCCO) superconductor**  
Cavdar Ş., Yakuphanoglu F., KORALAY H., Gunen A.  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.434, no.1, pp.85-89, 2006 (SCI-Expanded)
- XXXIX. **Dynamical finite-size scaling function of the four dimensional Ising model for Creutz algorithm**  
MERDAN Z., Gunen A., Cavdar Ş.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.359, pp.415-422, 2006 (SCI-Expanded)
- XL. **Frequency-dependent dielectric characteristics of Tl-Ba-Ca-Cu-O bulk superconductor**  
Cavdar Ş., Koralay H., Tuğluoğlu N., Gunen A.  
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.18, no.9, pp.1204-1209, 2005 (SCI-Expanded)
- XLI. **Investigation of odd-order harmonic susceptibilities of a bulk Tl<sub>2</sub>Ba<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10</sub> superconductors using critical state approach**  
Aksu E., Gencer A., Calmlı N., Koralay H., Cavdar Ş.  
PHYSICA B-CONDENSED MATTER, vol.363, pp.158-165, 2005 (SCI-Expanded)
- XLII. **Crystallization kinetics of Bi<sub>1.7</sub>V<sub>0.3</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> glass-ceramic**  
KORALAY H., Yakuphanoglu F., Cavdar Ş., Gunen A., Aksu E.  
PHYSICA B-CONDENSED MATTER, vol.355, pp.64-71, 2005 (SCI-Expanded)
- XLIII. **Microstructural, thermal, and electrical properties of Bi<sub>1.7</sub>V<sub>0.3</sub>Sr<sub>2</sub>Ca<sub>2</sub>Ca<sub>3</sub>O<sub>x</sub> glass-ceramic superconductor**

Kayed T., Calinli N., Aksu E., Koralay H., Gunen A., Ercan I., Akturk S., Cavdar Ş.

CRYSTAL RESEARCH AND TECHNOLOGY, vol.39, no.12, pp.1063-1069, 2004 (SCI-Expanded)

**XLIV. Effect of B<sub>2</sub>O<sub>3</sub> addition on the formation and properties of Tl-2212 and Tl-2223 superconductors**

Cavdar Ş., Aksu E., Koralay H., Ozkan H., HASANLI N., Ercan I.

PHYSICA STATUS SOLIDI A-APPLIED RESEARCH, vol.199, no.2, pp.272-276, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Investigation of Bi-Ga Partial Replacement Effect on Magnetic, Mechanical and Microstructural Properties Bi(1,8-x)Pb<sub>0,2</sub>GaxSr<sub>2</sub>CaCu<sub>2</sub>O<sub>y</sub> Superconductor**  
ÇAVDAR Ş., İZMİRLİ S., TURAN N., KORALAY H.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.10, no.3, pp.423-438, 2022 (Peer-Reviewed Journal)
- II. **Bi<sub>1,8-x</sub>GaxPb<sub>0,2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>y</sub> Cam Seramiklerin Termal Özelliklerinin İncelenmesi**  
Çavdar Ş., Turan N., Koralay H., Izmirli S., Bulut D.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.10, no.2, pp.86-102, 2022 (Peer-Reviewed Journal)
- III. **Investigation of the Effect of Temperature on the Structural and Magnetic Properties of MgB<sub>2</sub> Superconductor Produced Using Boron Doped with Carbon by CVD Method**  
KAYA N., ÇAVDAR Ş., KORALAY H.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, 2021 (Peer-Reviewed Journal)
- IV. **CVD yöntemi ile karbon katkılanmış bor kullanılarak üretilen MgB<sub>2</sub>'nin mikrosertlik özelliklerinin incelenmesi**  
KAYA N., ÇAVDAR Ş., KORALAY H.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, 2020 (Peer-Reviewed Journal)
- V. **A NOVEL DEVICE BEHAVIOR OF Al/Coronene/n-GaAs/In ORGANICBASED SCHOTTKY BARRIER DIODE**  
AKIN Ü., YÜKSEL Ö. F., PAKMA O., KORALAY H., ÇAVDAR Ş., TUĞLUOĞLU N.  
New Materials, Compounds and Applications, vol.3, no.1, pp.15-22, 2019 (Peer-Reviewed Journal)
- VI. **FARKLI ORANLARDA PbO VE Se KATKISININ Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>1</sub>Cu<sub>2</sub>O<sub>x</sub> (BSCCO) CAM SERAMİK SİSTEMİNDEKİ ISIL ÖZELLİKLERİNE ETKİSİ**  
KORALAY H., KILIÇ G., TUĞLUOĞLU N., ÇAVDAR Ş.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.5, no.1, pp.91-98, 2017 (Peer-Reviewed Journal)
- VII. **Analysis of hopping conduction and space charge limited currents in nearly ideal metal semiconductor contacts**  
Koralay H., Tuğluoğlu N., Kübra Bengi A., Çavdar Ş.  
Gazi University Journal of Science, vol.27, no.3, pp.901-907, 2014 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **An Experimental Study on Capacitance-Voltage and Conductance-Voltage Characteristics of a Novel p-Si/Terpiridin-Ferrosen/Al Device**  
ÇAVDAR Ş., TURAN N.  
International Conference On Quantum Materials And Technologies (ICQMT2022), Muğla, Turkey, 16 - 22 October 2022
- II. **Effect Of Znco<sub>2</sub>o<sub>4</sub> Nanoparticle Doping, Produced By The Sol-Jel Method, On The Electrical Properties Of Gelatin Thin Films**  
DEMİRÖLMEZ Y., TURAN N., ÇAVDAR Ş., KORALAY H., TUĞLUOĞLU N.  
INTERNATIONAL MARMARA SCIENCES CONGRESS IMASCON 2021 AUTUMN, Turkey, 10 December 2021

- III. **Investigation Of Impedance Spectroscopy Of Cadmium Doped ZnO Thin Films Produced By The Silar Method**  
TURAN B., ÇAVDAR Ş., TURAN N., KORALAY H., TUĞLUOĞLU N.  
INTERNATIONAL MARMARA SCIENCES CONGRESS IMASCON 2021 AUTUMN, Turkey, 10 - 11 December 2021
- IV. **Farklı Yöntemlerle Sentezlenen İndirgenmiş Grafen Oksitlerin Karakterizasyonu Ve Eva Nanokompozit Film Üzerindeki Etkilerinin İncelenmesi**  
ÖZAL T., ÇAVDAR Ş., KORALAY H.  
TRAKYA ÜNİVERSİTELER BİRLİĞİ V. LİSANSÜSTÜ ÖĞRENCİ KONGRESİ, Turkey, 4 - 05 November 2021
- V. **INVESTIGATION OF MECHANICAL PROPERTIES OF MULTI-WALLED CARBON NANOTUBE DOPED MgB<sub>2</sub>**  
KAYA N., KORALAY H., ÇAVDAR Ş., ÖZTÜRK Ö.  
7th International Conference on Superconductivity and Magnetism, Turkey, 21 - 27 October 2021
- VI. **INVESTIGATION OF Bi<sub>1.775</sub>Pb<sub>0.2</sub>Ga<sub>0.25</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>y</sub> GLASS-CERAMIC SUPERCONDUCTOR**  
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- IX. **KORONEN ORGANİK ARAYÜZEY TABAKALI SCHOTTKY DİYOTLARDA KARAKTERİSTİK PARAMETRELERİN BELİRLENMESİ**  
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- XI. **PRODUCTION OF MgB<sub>2</sub> BY USING CARBONCAPSULATED BORON WITH CVD METHOD**  
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- XVIII. **Micromechanical characterization of yttrium doped ZnO nanoparticles by using depth-sensing indentation method**  
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- XXIV. **The Effect of Encapsulation Time on the Encapsulation Carbon of Boron Powder with CVD Method**  
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- XXVIII. **Presleme Basıncının Al B<sub>4</sub>C Fonksiyonel Derecelendirilmiş Malzemenin Üretimine Etkisi**  
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- XXXIII. **Influence of Heat Treatment Duration on Mechanical Properties of RuSr<sub>2</sub>GdCu<sub>2</sub>O<sub>x</sub>**  
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Citation (WoS): 318

Citation (Scopus): 372

H-Index (WoS): 11

H-Index (Scopus): 12

## **Non Academic Experience**

Gazi Üniversitesi

National Institute for Materials Science

Türkiye Atom Enerjisi Kurumu

Milli Eğitim Bakanlığı