

Assoc. Prof. Nursel CAN

Personal Information

Office Phone: [+90 212 383 4240](tel:+902123834240)

Email: can@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/can>

Address: YTÜ Davutpaşa Kampüsü Fen-Edebiyat Fak. Fizik Bölümü 34220 Esenler-İstanbul

International Researcher IDs

ORCID: 0000-0002-1963-7189

Yoksis Researcher ID: 174424

Biography

Nursel Can received her BSc degree from Yildiz Technical University, Istanbul, Turkey, in 1992. She received MSc and PhD degrees from the same university in 1996 and 2003, respectively. She is a lecturer at the same university. Her research interests are the dynamic-mechanical and electrical properties of polymer and sensor systems.

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2000 - 2003

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 1992 - 1996

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Fizik, Turkey 1988 - 1992

Dissertations

Doctorate, Poliiolefin kompozitleri ve karışımlarının elektrik yıpranma özelliklerine dış faktörlerin etkileri, 2003

Postgraduate, İki atomlu moleküllerin titreşim ve dönme enerjilerinin hesaplanması, 1996

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2018 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2018 - 2018

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2006 - 2018

Lecturer PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2005 - 2006

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 1995 - 2003

Teacher, 1994 - 1995

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2018 - 2022
Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2006 - 2010

Courses

Fizik Lab. 1, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Fizik 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Modern Fizik, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Fizik 2, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Seminer, Postgraduate, 2020 - 2021, 2019 - 2020

Modern Fiziğe Giriş, Undergraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016

Atom ve Molekül Fiziği, Undergraduate, 2016 - 2017, 2015 - 2016

Fizik 2, Undergraduate, 2013 - 2014, 2011 - 2012, 2005 - 2006

Fizik 2, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Fizik 1, Undergraduate, 2013 - 2014

Fizik 1, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Atomve Molekül Fiziği Lab, Undergraduate, 2012 - 2013

Fizik 2, Undergraduate, 2011 - 2012, 2010 - 2011

Fizik Lab. 3, Undergraduate, 2011 - 2012, 2010 - 2011

Fizik 1, Undergraduate, 2011 - 2012

Fizik 3, Undergraduate, 2011 - 2012, 2010 - 2011

Fizik Lab. 2, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Electrospun CuO nanofibers for room temperature volatile organic compound sensing applications**
CAN N.
MATERIALS CHEMISTRY AND PHYSICS, vol.213, pp.6-13, 2018 (SCI-Expanded)
- II. **Toluene vapor sensing characteristics of novel copper(II), indium(III), mono-lutetium(III) and tin(IV) phthalocyanines substituted with 2,6-dimethoxyphenoxy bioactive moieties**
PIŞKİN M., CAN N., ODABAŞ Z., ALTINDAL A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.189-197, 2018 (SCI-Expanded)
- III. **Novel homoleptic, dimeric zinc(II) phthalocyanines as gate dielectric for OFET device**
Karaođlan G., Gümrükçü G., GÖRDÜK S., CAN N., Gül A.
Synthetic Metals, vol.230, pp.7-11, 2017 (SCI-Expanded)
- IV. **Conduction and dielectric relaxation studies on substituted iron(II) phthalocyanine thin film**
Omur B., CAN N., ALTINDAL A.
MATERIALS CHEMISTRY AND PHYSICS, vol.186, pp.438-445, 2017 (SCI-Expanded)
- V. **Modeling of heavy metal ion adsorption isotherms onto metallophthalocyanine film**
CAN N., Omur B., ALTINDAL A.
SENSORS AND ACTUATORS B-CHEMICAL, vol.237, pp.953-961, 2016 (SCI-Expanded)
- VI. **Investigation on Aging Mechanism of Polyester Under Combined Stresses**
CAN N., ARAS F., ALEKPEROV V. A., ALTINDAL A.
IEEE ELECTRICAL INSULATION MAGAZINE, vol.32, no.4, pp.38-42, 2016 (SCI-Expanded)
- VII. **The effects of substituent position on kinetics of benzene vapour adsorption onto 3-phenylphenoxy**

substituted metal-free and metallo-phthalocyanines thin films

Ali H. E. A., CAN N., ALTUN S., ODABAŞ Z.

DALTON TRANSACTIONS, vol.45, no.42, pp.16922-16930, 2016 (SCI-Expanded)

VIII. Aging of 154 kV underground power cable insulation under combined thermal and electrical stresses

ARAS F., ALEKPEROV V., Can N., Kırkıcı H.

IEEE ELECTRICAL INSULATION MAGAZINE, vol.23, no.5, pp.25-33, 2007 (SCI-Expanded)

IX. Effects of mechanical and thermal stresses on electric degradation of polyolefins and related materials

Mamedov S., Alekperov V., Can N., Aras F., Yilmaz G.

MACROMOLECULAR SYMPOSIA, vol.212, pp.293-298, 2004 (SCI-Expanded)

Articles Published in Other Journals

I. Meyer-Neldel Rule in Ac Conductivity of Cu Doped ZnO Thin Films

CAN N.

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.6, pp.1538-1543, 2018 (Peer-Reviewed Journal)

II. IMPEDANCE SPECTROSCOPY AND DIELECTRIC RELAXATION IN PHTHALOCYANINE THIN FILM

CAN N., ALTINDAL A.

Uludağ University Journal of The Faculty of Engineering, vol.22, pp.145-152, 2017 (Peer-Reviewed Journal)

III. ADSORPTION KINETICS OF Cd²⁺ IONS ONTO MgPz THIN FILM

Can N., Can Ömür B., Altındal A.

Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.17, no.4, pp.622-632, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Sensitive Detection of Cu²⁺ Ions in Aqueous Medium by Phthalocyanine Modified Piezoelectric Resonators

Can N., Can Ömür B., Altındal A.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.212

II. Pesticide Sensing in Water With Acoustic Wave Sensor

CAN N., CAN ÖMÜR B., ALTINDAL A.

Turkish Physical Society 34th International Physics Congress (TFD34), Muğla, Turkey, 05 September 2018, pp.179

III. Detection Of Heavy Metal Ions In Drinking Water Using Carbon Nanotube Functionalized Sensors.

CAN N., CAN ÖMÜR B., ALTINDAL A.

3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018

IV. Synthesis and Optical Characterization of Gold Nanoparticles - ZnS Composites

Can N.

The International Conference on Materials Science, Mechanical and Automation Engineerings and Technology (IMSMATEC-2018), İzmir, Turkey, 10 April 2018, pp.1

V. Humidity Nanosensors Based on SnO₂ Electrospun Nanofibers

CAN ÖMÜR B., CAN N., ALTINDAL A.

Türk Fizik Derneği 33.Uluslararası Fizik Kongresi, Muğla, Turkey, 06 September 2017, pp.615

VI. Leakage current mechanism in ITO/Organic film/Ag structures

CAN N., CAN ÖMÜR B., ALTINDAL A.

Türk Fizik Derneği 33.Uluslararası Fizik Kongresi, Muğla, Turkey, 06 September 2017, pp.624

VII. Synthesis, Characterization and Physical Properties of Novel Metallo Phthalocyanines Peripherally substituted Fluoro Quinoline Moiety

KESKİN B., CAN N., YILMAZ G. D.

International Congress On Applied Science And Technology (ASTECH'2017), 17 - 20 April 2017, vol.1, pp.72

- VIII. **Kinetics of pesticide and heavy metal ion adsorption onto phthalocyanine thin film**
CAN N., ALTINDAL A.
4th International Conference on Materials Science and Nanotechnology For Next Generation, MSNG-2017, Sarajevo, Bosnia And Herzegovina, 28 June 2017, pp.52
- IX. **Gravimetric Detection of Pesticide in Water Samples**
CAN N., ALTINDAL A.
2nd International Conference on Civil and Environmental Engineering (Cappadocia-2017), Nevşehir, Turkey, 08 May 2017, pp.3430
- X. **Interdigitated Microelectrodes for Detection and Identification of BTX Vapours**
CAN ÖMÜR B., CAN N., ALTINDAL A.
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, 8 - 10 May 2017, pp.3431
- XI. **The influence of electric field applied during deposition on functionality of TiO₂ VO₂ thin films**
CAN N., CAN ÖMÜR B., ALTINDAL A.
Science Applications of Thin Films, Conference Exhibition SATF 2016, İzmir, Turkey, 19 - 23 September 2016
- XII. **Highly Sensitive Humidity Sensor Operating at Room Temperature**
CAN ÖMÜR B., Can N.
Turkish Physical Society 32nd International Physics Congress (TFD32). 6-9 September, Muğla, Turkey, 06 September 2016, pp.342
- XIII. **Investigation of photoconductive properties of single-layered organic photoreceptors**
Can N., Can Ömür B., Altındal A.
2nd International Conference on Organic Electronic Material Technologies OEMT2016. 17-19 May, Çanakkale, Turkey, 17 May 2016, pp.114
- XIV. **Highly Sensitive Heavy Metal Ion Detection Using AlQ(3) Microwire Functionalized QCM**
Can N., Agar M., Altındal A.
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722
- XV. **Determination of Band Offset of Sol-Gel Synthesized TiO₂ Over Silicon Substrates By IPE Measurement**
Can N., Saatci A., Gökdemir P., Özdemir O., Kutlu K.
Turkish Physical Society 31st International Physics Congress (TFD31) 21-24 July, Muğla, Turkey, 21 - 24 July 2014, pp.374
- XVI. **Energy-Band Diagram of PCDTBT, PCBM and Blend by Cyclic Voltammetry and UV-Visible Measurements**
Gökdemir F. P., Özdemir O., Kavak P., Can N., Kutlu K.
International Advances in Applied Physics and Material Science Congress 2013, Antalya, Turkey, 24 - 28 April 2013
- XVII. **Carrier Transport Property of Organic Light Emitting Diode (OLED) Through Admittance Spectroscopy**
KAVAK P., BULGURCUOĞLU A. E., TEKİN E., GÖKDEMİR F. P., CAN N., ÖZDEMİR O., MENDA U. D., KUTLU K.
3rd International Advances in Applied Physics & Materials Science Congress, Antalya, Turkey, 20 April 2013, pp.271
- XVIII. **Electroluminescence property of organic light emitting diode (OLED)**
Gökdemir F. P., Özdemir O., Bulgurcuoğlu A. E., Kutlu K., Can N., Kavak P.
3rd International Advances in Applied Physics and Materials Science Congress, APMAS 2013, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.364-371
- XIX. **Preparation and Characterization of PVA/ZnO Nanohybrid Membrane**
Can N., Okur N., Elgün G., Gök H., Y.Baysoy D., Kam E., Denктаş C.
Turkish Physical Society 29th International Physics Congress (TFD29) 5-8 September, Muğla, Turkey, 5 - 08 September 2012, pp.375
- XX. **Comparison of the Optical Properties and Mechanical Electrical Degradation of Some PE PP Based Polymer Composites**

- Boydağ F. Ş., Mamedov S., Alekberov V., Can N., Gündoğdu F. O., Özcanlı Y.
12th General Conference of the European Physical Society (EPS-12), Budapest, Hungary, 26 - 30 August 2002
- XXI. **Simultaneous and Individual Effects of Mechanical and Thermal Stresses on Electric Degradation Characteristics of Polyolefins and the Composites Prepared on Their Basis and Crosslinked XLPE Materials**
Alekberov V., Can N., Gunes S., Aras F., Yilmaz G.
21st Discussion Conference of P.M.M., 9th International Conference ERPOS 2002 14-18 July, Praha, Czech Republic, 14 July 2002, pp.1
- XXII. **The Comparison of Dynamical and Mechanical Properties of Pure PP and Doped Fiber PP Composites and The Long-Term Effects of Electrical Degradation on This Process**
Mamedov S., Alekberov V., Can N., Özcanlı Y.
FRC 2000-Eighth International Conference on Fibre Reinforced Composites, Newcastle Upon Tyne, United Kingdom, 13 - 15 September 2000, pp.597-603
- XXIII. **Electrical Punching and Fatigue Properties of Fibers Doped PP Composites**
Mamedov S., Alekberov V., Can N.
Eighth International Conference on Fibre Reinforced Composites, Newcastle-Upon-Tyne, United Kingdom, 13 - 15 September 2000, pp.636-646
- XXIV. **Birkaç Dış Faktörün Aynı Anda Etkisiyle Polimer Kompozitlerinin Yıpranmasının Önceden Söylenilmesi Problemleri Sözlü Bildiri**
Mamedov S., Varol S., Alekberov V., Kutlu K., Can N., Özcanlı Y.
Türk Fizik Derneği, 18.Fizik Kongresi, Adana, Turkey, 25 - 28 October 1999, pp.86
- XXV. **Elyaf Katkılı Poliolenin Polimer Kompozitlerinin Elektrik ve Mekanik Gerilimlerinin Aynı Anda Etkisiyle Yıpranma Özellikleri Sözlü Bildiri**
Mamedov S., Varol S., Alekberov V., Can N., Özcanlı Y.
Türk Fizik Derneği, 18.Fizik Kongresi, Adana, Turkey, 25 - 28 October 1999, pp.85
- XXVI. **The Mechanism of the Degradation With the Same Time Effect on Dynamic Mechanical and Electric Properties Polyolefines Based Fibrillar and Conducting Doped Polymer Composites**
Mamedov S., Alekberov V., Özcanlı Y., Can N.
NATOASI Advanced Study Institute, Porto, Portugal, 17 - 29 May 1999
- XXVII. **Boru Üretim Sürecinde Ekstrüderin Polietilenin Dinamik- Mekanik Özelliklerine ve Yapısına Etkileri**
Mamedov S., Alekberov V., Can N., Belen H.
Türk Fizik Derneği 17.Fizik Kongresi (TFD17), Antalya, Turkey, 27 - 31 October 1998, pp.244
- XXVIII. **Boru Üretimindeki Kaynak Süreçlerinde Isı Olayları**
Mamedov S., Koyun A., Varol S., Teke İ., Alekberov V., Belen H., Öksüz S., Can N.
II.Ulusal Atom ve Molekül Fiziği Sempozyumu (Sözlü Bildiri), Ankara, Turkey, 9 - 11 September 1998, pp.34
- XXIX. **İki Atomlu Bir Molekülün Titreşim ve Dönme Enerjileri**
Can N., Kutlu K.
Türk Fizik Derneği 15.Fizik Kongresi (TFD15), Antalya, Turkey, 26 - 29 September 1995, pp.195
- XXX. **Kitosan/TiO₂ Hibrit Nanokompozit Filmlerin Termal, Yapısal ve Mikroyapısal Özellikleri Üzerinde TiO₂ Parçacıklarının Etkilerinin İncelenmesi**
Gök H., Denктаş C., Can N.
Türk Fizik Derneği 28.Uluslararası Fizik Kongresi (TFD28) 6-9 September, Muğla, Turkey, 6 - 09 September 2011, pp.432

Supported Projects

CAN N., ÖZDEMİR O., KESKİN B., ALTINDAL A., SÜNGÜ MISIRLIOĞLU B., Project Supported by Higher Education Institutions, Pestisitlerin (Pesticides) Algılanmasına Yönelik Biyosensörlerin Geliştirilmesi, 2016 - 2019
Serin M., Karaman F., Cankurtaran Ö., Can Ömür B., Can N., Şakar Daşdan D., Çakar F., Yazıcı Ö., Project Supported by Higher Education Institutions, Yüksek Vakum Elektriksel Ölçüm Sistemi ile Karbon Nanotüp Katkılı Polimerlerin Farklı

Şartlarda Elektriksel Özelliklerinin Belirlenmesi, 2007 - 2011

Serin M., Karaman F., Cankurtaran Ö., Can Ömür B., Can N., Şakar Daşdan D., Çakar F., Project Supported by Higher Education Institutions, Elektriksel Ölçüm Sisteminin Kurulması ve İleri Teknoloji Malzemeleri Olarak Kullanılan İnce Filmlerin Opto-elektronik Karakterizasyonu, 2007 - 2011

Alekberov V., Cantürk Rodop M., Özcanlı Y., Bülbül F., Can N., Aksakal B., Project Supported by Other Official Institutions, Fibrilyar Biyopolimerlerde ve Elyaf Katkılı Sentetik Polimer Kompozitlerinde Farklı Dış Faktörlerin Elektrik ve Mekanik Gerilimlerin Nemin UV Işımların ve Çözeltilerin Etkisi Altında Yıpranma Olayları, 2003 - 2006

Mamedov S., Alekberov V., Cantürk M., Özcanlı Y., Bülbül F., Can N., Aksakal B., Bolcal S., Project Supported by Higher Education Institutions, Poliolefinler Temelinde Yapılan Polimer Kompozitlerinde Mekanik ve Elektrik Gerilimlerinin Aynı Anda Etkilerinin İncelenmesi, 1999 - 2001

Metrics

Publication: 42

Citation (WoS): 112

Citation (Scopus): 221

H-Index (WoS): 5

H-Index (Scopus): 6

Awards

Can N., Türk Fizik Derneği Onur Ödülü 2020, Türk Fizik Derneği, September 2020

Can N., Teşekkür Belgesi, Tubitak Bilim İnsanı Destekleme Daire Başkanlığı, April 2009

Can N., Teşekkür Belgesi (2007-2009), Yıldız Teknik Üniversitesi , October 2007

Can N., Teşekkür Belgesi (2006-2007) , Yıldız Teknik Üniversitesi, October 2006

Can N., Teşekkür Belgesi 2004, Yıldız Teknik Üniversitesi, October 2004

Can N., Bilim Teşvik Belgesi, Yıldız Teknik Üniversitesi, October 1999

Non Academic Experience

Özel Yeni Yıldız Lisesi