

## Assoc. Prof. Nursel CAN

### Personal Information

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### Biography

Nursel Can received her BSc degree from Yıldız 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, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Fizik, Turkey 2000 - 2003

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Fizik, Turkey 1992 - 1996

Undergraduate, Yıldız Teknik Üniversitesi, 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, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2018 - Continues

### Academic and Administrative Experience

Deputy Head of Department, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, 2018 - Continues

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

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

1. Electrospun CuO nanofibers for room temperature volatile organic compound sensing applications

CAN N.

MATERIALS CHEMISTRY AND PHYSICS, vol.213, pp.6-13, 2018 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- IX. **Effects of mechanical and thermal stresses on electric degradation of polyolefins and related materials**  
Mamedov S., Alekperov V., Can N., Aras F., Yılmaz G.  
MACROMOLECULAR SYMPOSIA, vol.212, pp.293-298, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Meyer-Neldel Rule in Ac Conductivity of Cu Doped ZnO Thin Films**  
CAN N., CAN ÖMÜR B., ALTINDAL A.  
Sakarya University Journal Of Science, vol.22, no.6, pp.1538-1543, 2018 (National Refereed University 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 (Other Refereed National Journals)
- III. **ADSORPTION KINETICS OF Cd<sup>2+</sup> IONS ONTO MgPz THIN FILM**  
CAN N., CAN ÖMÜR B., ALTINDAL A.  
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY –A Applied Sciences and Engineering, vol.17, no.4, pp.622-632, 2016 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Sensitive Detection of Cu<sup>2+</sup> 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 SnO<sub>2</sub> 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 depositon on functionality of TiO<sub>2</sub> VO<sub>2</sub> 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 TiO<sub>2</sub> 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. **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
- XVIII. **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
- 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 - 18 July 2012, 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, England, 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/TiO<sub>2</sub> Hibrit Nanokompozit Filmlerin Termal, Yapısal ve Mikroyapısal Özellikleri Üzerinde TiO<sub>2</sub> 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., Altındal A., Keskin B., Süngü Mısırhoğlu B., Özdemir O., Project Supported by Higher Education Institutions, PESTİSİTLERİN (PESTİCİDES) ALGILANMASINA YÖNELİK BİYOSENSÖRLERİN GELİŞTİRİLMESİ, 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, Poliolenler Temelinde Yapılan Polimer Kompozitlerinde Mekanik ve Elektrik Gerilimlerinin Aynı Anda Etkilerinin İncelenmesi, 1999 - 2001

## Citations

Total Citations (WOS):120

h-index (WOS):5

## Awards

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