

## Assoc. Prof. Birsal CAN ÖMÜR

### Personal Information

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### Dissertations

Doctorate, Gözenekli silisyumun elektriksel ve optik özellikleri, Yıldız Technical University, Graduate School of Natural and Applied Sciences, 1999

Post Graduate, Saydam-iletken metal oksit filmlerin elde edilmesi ve fiziksel özelliklerinin incelenmesi, Yıldız Technical University, Graduate School of Natural and Applied Sciences, 1992

### Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2019 - Continues

Assistant Professor, Yıldız Technical University, Fizik Bölümü, 2018 - 2019

Assistant Professor, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2001 - 2018

Research Assistant PhD, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1999 - 2001

Research Assistant, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 1991 - 1999

### Professional Experience

Birim Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2016 - Continues

### Courses

Fizik Laboratuvarı 1, Under Graduate, 2019 - 2020

Modern Fizik, Under Graduate, 2019 - 2020

Fizik 2, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019

Fizik 1, Under Graduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019

Katıhal Fiziği 1, Under Graduate, 2015 - 2016, 2016 - 2017

Katıhal Fiziği 2, Under Graduate, 2015 - 2016

Fizik 2, Under Graduate, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014

Fizik 2, Under Graduate, 2013 - 2014

Fizik Laboratuvarı 3, Under Graduate, 2006 - 2007, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013

Fizik 3, Under Graduate, 2009 - 2010, 2010 - 2011, 2013 - 2014

Fizik 2, Under Graduate, 2003 - 2004, 2004 - 2005, 2010 - 2011

Fizik 3, Under Graduate, 2009 - 2010, 2010 - 2011, 2011 - 2012

Fizik 1, Under Graduate, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011

Fizik Laboratuvarı 2, Under Graduate, 2010 - 2011

## Jury Memberships

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2017

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2017

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, November, 2016

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, October, 2015

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, October, 2015

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

- I. **One step facile in-situ photochemical synthesis of hollow, doughnut-like ZnO nanoparticles and their alcohol vapor sensing properties**  
Kirtay H., Omur B., ALTINDAL A., ARSU N.  
Materials Research Bulletin, vol.122, 2020 (Journal Indexed in SCI)
- II. **Ethanol sensing with pure and boric acid doped electrospun CuInS<sub>2</sub> nanofibers in the presence of relative humidity**  
YAĞCI Ö., Arat R., Sarier N., Omur B. C., ALTINDAL A.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.104, 2019 (Journal Indexed in SCI)
- III. **In-situ photochemical synthesis of Au nanoparticles in polymer matrix with one-component thioxanthone disulfide for detection of benzene, toluene and xylene vapours**  
ÇINKO T., KOYUNCU U., OMUR B., ALTINDAL A., ARSU N.  
PROGRESS IN ORGANIC COATINGS, vol.132, pp.125-131, 2019 (Journal Indexed in SCI)
- IV. **Synthesis, photophysical, photochemical and SO<sub>2</sub> sensing properties of ball-type phthalocyanines substituted with carboxyl groups**  
Canlıca M., Omur B., Salih B.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.103, pp.75-81, 2019 (Journal Indexed in SCI)
- V. **Humidity effect on adsorption kinetics of ammonia onto electrospun SnO<sub>2</sub> nanofibers**  
Omur B.  
MATERIALS RESEARCH EXPRESS, vol.6, 2019 (Journal Indexed in SCI)
- VI. **Synthesis, characterization and ethanol sensing properties of carboxylic acid-terminated naphthoxy substituted phthalocyanines**  
ISIK S. N., KARAÖGLAN G., OMUR B., ALTINDAL A., KOSE G.  
SYNTHETIC METALS, vol.246, pp.7-15, 2018 (Journal Indexed in SCI)
- VII. **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)
- VIII. **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)
- IX. **Optical properties of iron-doped lithium niobate crystal depending on iron content and temperature**  
YÜKSELİCİ M. H., Bulut D., Omur B., BOZKURT A., Allahverdi C.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.251, pp.1265-1269, 2014 (Journal Indexed in SCI)
- X. **A detailed examination of the growth of CdSe thin films through structural and optical characterization**  
YÜKSELİCİ M. H., BOZKURT A., Omur B.  
MATERIALS RESEARCH BULLETIN, vol.48, pp.2442-2449, 2013 (Journal Indexed in SCI)
- XI. **CdS (x) Se<sub>1-x</sub> quantum dots studied through optical absorption, steady-state photoluminescence, and resonant Raman spectroscopies**  
Omur B., ASIKOĞLU A., ALLAHVERDİ C., YÜKSELİCİ M. H.  
JOURNAL OF MATERIALS SCIENCE, vol.45, pp.112-117, 2010 (Journal Indexed in SCI)

- XII. **Hydrogen sensing characteristics of Cu-PS-Si structures**  
DZHAFAROV T., Omur B., ORUC Ç., ALLAHVERDIEV Z.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.35, pp.3122-3126, 2002 (Journal Indexed in SCI)
- XIII. **Humidity-voltaic characteristics of Ag-PS-Si structures**  
DZHAFAROV T., Can B.  
JOURNAL OF MATERIALS SCIENCE LETTERS, vol.19, pp.2193-2195, 2000 (Journal Indexed in SCI)
- XIV. **The diffusion redistribution of hydrogen and oxygen in porous silicon films**  
DZHAFAROV T., Can B.  
JOURNAL OF MATERIALS SCIENCE LETTERS, vol.19, pp.287-289, 2000 (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, pp.1538-1543, 2018 (National Refreed University Journal)
- II. **A quartz crystal microbalance study of the adsorption of benzene and acetone vapors onto coumarin-substituted manganese phthalocyanine film**  
CAN ÖMÜR B., ALTINDAL A.  
TURKISH JOURNAL OF PHYSICS, vol.41, pp.65-71, 2017 (Journal Indexed in ESCI)
- 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, pp.622-632, 2016 (Other Refereed National Journals)
- IV. **Optical Constants of Transparent Thin Film Grown on Transparent Substrate**  
Kutlu K., Akçiz C., Can Ömür B.  
Yıldız Teknik Üniversitesi Dergisi, pp.14-20, 1995 (National Refreed University Journal)

### Books & Book Chapters

- I. **Optical and Structural Properties of Quantum Dots**  
YÜKSELİCİ M. H. , AŞIKOĞLU BOZKURT A., ALLAHVERDİ Ç., NASSAR Z., BULUT D., CAN ÖMÜR B., TORUN M. K. , İNCE A. T.  
in: Low Dimensional and Nanostructured Materials and Devices, H. Ünlü, Norman J. M. Horing, Jaroslaw Dabowski, Editor, Springer International Publishing, pp.327-350, 2015

### 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. **Organic Nanofibers for Sensing Applications**  
CAN ÖMÜR B.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 05 September 2018, pp.179
- IV. **Photochemically prepared nanocomposite thin films and organic vapor detection**

ÇİNKO T., BATIBAY G. S. , ÖZÇELİK E., KOYUNCU U., CAN ÖMÜR B., ALTINDAL A., ARSU N.

European Symposium of Photopolymer Science (ESPS), İstanbul, Turkey, 3 - 06 September 2018

- V. **Cu-Doped Electrospun ZnO Nanofibers for VOC Vapor Detection**  
CAN ÖMÜR B.  
3rd International Conference on Civil and Environmental Engineering (ICOCEE-2018), İzmir, Turkey, 24 April 2018, pp.168
- VI. **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
- VII. **Investigation of Charge Transport Processes in Electrospun SnO<sub>2</sub> Nanofibers Using Impedance Spectroscopy Technique**  
CAN ÖMÜR B., ALTINDAL A.  
The International Conference on Materials Science, Mechanical and Automation Engineerings and Technology (IMSMATEC-2018), İzmir, Turkey, 10 April 2018, pp.406
- VIII. **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
- IX. **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
- X. **CuO nanofibers for highly sensitive VOC detection**  
CAN ÖMÜR B., ALTINDAL A.  
4th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG-2017), Sarajevo, Bosnia And Herzegovina, 28 June 2017, pp.12
- XI. **Interdigitated Microelectrodes for Detection and Identification of BTX Vapours**  
CAN ÖMÜR B., CAN N., ALTINDAL A.  
2nd International Conference on Civil and Environmental Engineering (ICOCEE-2017), Nevşehir, Turkey, 8 - 10 May 2017, pp.3431
- XII. **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, 19 - 23 September 2016
- XIII. **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
- XIV. **Impedance Spectroscopy Studies on SnS Thin Film**  
CAN ÖMÜR B.  
Turkish Physical Society 32nd International Physics Congress (TFD32). 6-9 September, Muğla, Turkey, 06 September 2016, pp.342
- XV. **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
- XVI. **Substitute bakır ftalosiyanın yüzeyinde hidrojen peroksit adsorpsiyonu**  
CAN ÖMÜR B., Altındal A.  
ADIM FİZİK GÜNLERİ V Eskişehir Osmangazi Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü- 21-23 Nisan, Eskişehir, Turkey, 21 April 2016, pp.145
- XVII. **Structural and Optical Properties of Thin Film CdSe Studied Through XRD, SEM and Optical Transmission Measurements**  
Can Ömür B., Yükselici M. H. , Aşıkoğlu A.  
28th International Physics Congress, Muğla, Turkey, 06 September 2011, pp.698

- XVIII. **A Simulation of Raman Spectrum for Solid Aspirin for Solid Aspirin**  
CAN ÖMÜR B., Aşıkoğlu A., Yükselici M. H.  
7th General Conference of the Balkan Physical Union, Alexandroupolis, Greece, 09 September 2009, pp.66
- XIX. **Su İçinde Eritilmiş ve Katı Aspirin'in Moleküler Titreşim Kiplerinin Raman Spektroskopisi ile Ölçülmesi ve Sonuçların Mekanik Bir Model Yardımı ile Değerlendirilmesi**  
CAN ÖMÜR B., Yükselici M. H. , Aşıkoğlu A.  
TFD 24. Uluslararası Fizik Kongresi, Malatya, Turkey, 28 August 2007, pp.264
- XX. **Ag-Gözenekli Silisyum İnce Film Nem Pili ve Nem Sensörünün Karakteristikleri**  
Caferov T. C. , Can Ömür B., Çıngı E., Allahverdiev Z.  
Türk Fizik Derneği 2.Ulusal Yoğun Madde Fiziği Kongresi, Erzurum, Turkey, 22 June 2000, pp.72-78
- XXI. **Gözenekli Silisyum İnce Filmlerin Elde Edilmesi ve Özelliklerinin İncelenmesi**  
Caferov T., Can Ömür B., Ören D.  
TFD-18 Türk Fizik Derneği 18.Fizik Kongresi, Adana, Turkey, 25 - 28 October 1999, pp.201
- XXII. **Effect of Heat Treatment on Visible Photoluminescence and Optical Properties of Porous Silicon**  
Dzhafarov T., Can Ömür B., Akçiz C., Ören D., Skarlatos Y.  
3rd General Conference of the Balkan Physical Union, Cluj-Napoca, Romania, 02 September 1997, pp.272-276
- XXIII. **Farklı Taşıyıcı Sıcaklıklarında Kaplanan CeF3 Filmlerinin Optik Parametrelerinin İncelenmesi**  
CAN ÖMÜR B., Akçiz C., Kutlu K.  
TFD-15 Türk Fizik Derneği 15.Fizik Kongresi, Antalya, Turkey, 26 September 1995, pp.236
- XXIV. **Amorf Si Filmlerin Yüksek Aydınlanma Şiddeti Altındaki Optoelektronik Davranışı**  
Akçiz C. S. , Can Ömür B., Serin M.  
TFD-15 Türk Fizik Derneği 15.Fizik Kongresi, Antalya, Turkey, 26 September 1995, pp.245
- XXV. **Saf ve Katkılı SnO2 Filmlerinin Pirohidroliz Tekniği ile Elde Edilmesi ve Özelliklerinin İncelenmesi**  
CAN ÖMÜR B., Akçiz C.  
TFD-14 Türk Fizik Derneği 14.Fizik Kongresi, Lefkoşa, Cyprus (Kktc), 25 October 1993, pp.24

## Supported Projects

CAN ÖMÜR B., YÜKSELİCİ M. H. , ÖZKAN ZAYİM E., Project Supported by Higher Education Institutions, İNCE FİLM ÜÇLÜ CdSexS1-x YARI-İLETKENLERİN BÜYÜTÜLMESİ VE OPTİK VE YAPISAL ÖZELLİKLERİNİN BİLEŞİME BAĞLI OLARAK ARAŞTIRILMASI, 2016 - 2019

Aşıkoğlu Bozkurt A., Yükselici M. H. , Can Ömür B., Project Supported by Higher Education Institutions, İnce film titanyum diyoksit içinde büyütülen CdTe yarı iletken nano kristallerin düşük sıcaklık foto lüminesans özelliklerinin araştırılması, 2012 - 2016

Yükselici M. H. , Can Ömür B., Aşıkoğlu Bozkurt A., Allahverdi Ç., Project Supported by Higher Education Institutions, Hacimsel Holografik Veri Depolama Teknolojisinin İlerletilmesi Doğrultusunda LiNbO3 Fe Kristalinin Optik Özelliklerinin Demir Katkısı Miktarına Bağlı Olarak Değişiminin Araştırılması, 2012 - 2015

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

Çıngı E., Skarlatos Y., Ören D., Akçiz C. S. , Karabay I., Serin M., Can Ömür B., Özer M., Project Supported by Higher Education Institutions, İnce Altın Filmlerin Seyreltik Civa Konsantrasyonu Tayini İçin Detektör Olarak Kullanılmasında Ara Tabaka Olarak Kromun Kullanılması, 1994 - 1997

Akçiz C. S. , Can Ömür B., Tokmanoğlu K., Project Supported by Higher Education Institutions, Püskürtme Yoluyla Pirohidroliz Tekniği İle Saf ve Katkılı Saydam-İletken SnO2 Filmlerin Elde Edilmesi ve Özelliklerinin İncelenmesi, 1987 - 1994

## **Memberships / Tasks in Scientific Organizations**

Türk Fizik Derneği, Member, 2008 - Continues

## **Scientific Refereeing**

AIP Conference Proceedings, Other Indexed Journal, October 2018

AIP Conference Proceedings, Other Indexed Journal, October 2018

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Journal Indexed in SCI-E, August 2018

CANADIAN JOURNAL OF PHYSICS, SCI Journal, December 2017

CANADIAN JOURNAL OF PHYSICS, SCI Journal, December 2017

TURKISH JOURNAL OF PHYSICS, Journal Indexed in ESCI, December 2010

Journal of Materials Science, SCI Journal, July 2010

SİGMA Mühendislik ve Fen Bilimleri Dergisi, Other Journals, April 2009

SİGMA Mühendislik ve Fen Bilimleri dergisi, Other Journals, October 2007

SİGMA Mühendislik ve Fen Bilimleri dergisi, Other Journals, April 2007

SİGMA Mühendislik ve Fen Bilimleri dergisi, Other Journals, January 2007

## **Tasks In Event Organizations**

Can Ömür B., 9th International Physics Conference of the Balkan Physical Union, Scientific Congress, İstanbul, Turkey, Ağustos 2015

Can Ömür B., Çilli A., Türk Fizik Derneği 16. Fizik Kongresi, Scientific Congress, Turkey, Ağustos 1996

Can Ömür B., ÇİLLİ A., Türk Fizik Derneği 15. Fizik Kongresi, Scientific Congress, Antalya, Turkey, Eylül 1995

## **Citations**

Total Citations (WOS):103

h-index (WOS):6