

# Prof. Orhan ÖZDEMİR

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABC-1922-2022

ScopusID: 36818588600

Yoksis Researcher ID: 44326

## Education Information

Doctorate, Odtü, Fen Edebiyat, Fizik, Turkey Continues

Odtü, Fen Edebiyat, Fizik, Turkey Continues

Undergraduate, Middle East Technical University, Fen Edebiyat, Fizik, Turkey Continues

## Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - Continues

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

- I. **Indium and hafnium chloride modified titanium oxide thin films**  
AYARCI KURUOĞLU N., CHOI F. P., ÖZDEMİR O.  
Optik, vol.283, 2023 (SCI-Expanded)
- II. **Determination of band tail widths in MOCVD grown InGaN single layer within GaN based p-i-n LED structure through photo-induced measurements**  
Özdemir O., Bozkurt K., Ayarçı Kuruoğlu N., Baş H., Sarcan F., Erol A., Alshehri B., Dogheche K., Dogheche E.  
JOURNAL OF LUMINESCENCE, vol.255, pp.119543, 2023 (SCI-Expanded)
- III. **Investigation of luminescence centers inside InGaN/GaN multiple quantum well over a wide range of temperature and injection currents**  
Ayarçı Kuruoğlu N., Özdemir O., Bozkurt K., Baş H., Alshehri B., Dogheche K., Dogheche E.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.00, no.00, 2022 (SCI-Expanded)
- IV. **Development and characterization of sodium alginate/bifidobacterium probiotic biohybrid material used in tissue engineering**  
Denktas C., Baysoy D. Y., Bozdoğan A., Bozkurt H. S., Bozkurt K., Özdemir O., Yılmaz M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.18, 2022 (SCI-Expanded)

## V. Biodegradation of microplastic by probiotic bifidobacterium

Bozkurt H. S., CİVELEK YÖRÜKLÜ H., BOZKURT K., Denktas C., BOZDOĞAN A., ÖZDEMİR O., ÖZKAYA B.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)

## Articles Published in Other Journals

### I. Admittance Analysis in (PPE-PPV) Polymer (AnE-PVstat) Light Emitting Diodes

Kavak P., Özdemir O., Pıravadılı Mucur S., Tekin E., Menda D., Kutlu K., Boudiba S., Egbe D., Ulbricht C.  
SPIE Conference Proceedings, vol.8829, pp.882921-882924, 2013 (Conference Book)

## Books & Book Chapters

### I. Influence of Heat Treatment on Structure and Charge Capacity of Sol-Gel Produced TiO<sub>2</sub> Films

Özdemir O., Gökdemir F. P., Keskin B., Kutlu K.  
in: International Congress on Energy Efficiency and Energy Related Materials ENEFM2013,  
Oral,A.Y.,Bahsi,Z.B.,Ozer,M., Editor, Springer, Zürich, pp.307-313, 2013

## Refereed Congress / Symposium Publications in Proceedings

### I. Betavoltaic Study on GaN p-i-n Diode

Özdemir O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.  
XXI International School on Nuclear Physics, Neutron Physics and Applications, 01 September 2015

### II. 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

## Supported Projects

ÖZDEMİR O., TUBITAK Project, Silisyum tabanlı ışık yayımlayan yapıların üretilmesi, Continues

ÖZDEMİR O., TUBITAK Project, Silisyum nitrid filmlerin plazmayla büyütülmesi, amorf silisyum ince tabanlı ince film transistörlere uygulanması, Continues

ÖZDEMİR O., Other International Funding Programs, a-SiCx:H ince filmlerin üretilmesi ve ışık PIN yapıya ayarlanması, Continues

ÖZDEMİR O., Other International Funding Programs, YTU Merkez Lab Kurulumu, Continues

BOZKURT K., SANCAR BOZKURT H., ÖZDEMİR O., Project Supported by Higher Education Institutions, Bifidobakterilerde Elektro-Optik, Algılama ve Diğer Fiziksel Aktivitelerinin İncelenmesi ve Uygulama Alanları, 2021 - 2023

ÖZDEMİR O., BAŞ H., Project Supported by Higher Education Institutions, Metal Organik Kimyasal Buhar Biriktirme Sistemi Tekniğiyle Büyütülen Galyum Nitrit Filmlerin pin Yapısındaki Işık Yayan Diyotların Özelliklerinin İncelenmesi, 2019 - 2021

AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, %30 In katkılı InxGa1-xN/GaN çoklu kuantum kuyuların optoelektronik özelliklerinin incelenmesi, 2018 - 2019

ÖZDEMİR O., CHOI F. P., Project Supported by Higher Education Institutions, a-Si:H/c-Si Eklemin HIT Türü Güneş Piliindeki Rolü, 2012 - 2015

ÖZDEMİR O., Project Supported by Higher Education Institutions, PECVD Yöntemiyle a-Si:H Tabanlı HIT Güneş Pili Üretimi ve Karakterizasyonu, 2012 - 2015

ÖZDEMİR O., CHOI F. P., Project Supported by Higher Education Institutions, Erbiyum Katkılı/Katkısız İnce Filmlerin

Elektrokromik Özelliklerinin İncelenmesi, 2012 - 2015

ÖZDEMİR O., CHOI F. P., Project Supported by Higher Education Institutions, Yüksek Dielektrik Sabitli Alternatif Yalıtkan Filmlerin Metal/Yalıtkan/Yarıiletken (MIS) yapısında incelenmesi, 2011 - 2015

ÖZDEMİR O., CHOI F. P., Project Supported by Higher Education Institutions, PECVD yöntemiyle büyütülmüş bor nitrür filmlerin elektriksel ve optiksel özelliklerinin incelenmesi ve tavlamanın film yapısına etkileri, 2008 - 2010

ÖZDEMİR O., Other International Funding Programs, PECVD YÖNTEMİYLE BÜYÜTÜLMÜŞ BOR NİTRÜR FİLİMLERİN, 2008 - 2010

ÖZDEMİR O., CHOI F. P., Project Supported by Higher Education Institutions, Metal-yarıiletken yapıların elektriksel özelliklerinin incelenmesi, 2007 - 2009

## Scientific Refereeing

Surface roughness and optoelectronic properties of intrinsic and doped nc-Si:H prepared by rf-magnetron sputtering at low temperature, SCI Journal, February 2014

Journal of Non-Crystalline Solids, SCI Journal, January 2000

## Metrics

Publication: 140

Citation (WoS): 266

Citation (Scopus): 276

H-Index (WoS): 9

H-Index (Scopus): 9