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International Researcher IDs

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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., Piravadılı 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 TiO₂ 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 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

Supported Projects

- ÖZDEMİR O., TUBITAK Project, Silisyum tabanlı ışık yayımlayan yapıların üretilmesi, Continues
- ÖZDEMİR O., TUBITAK Project, Silisyum nitrür filmlerin plazmayla büyütülmesi, amorf silisyum ince tabanlı ince film transistörlere uygulanması, Continues
- ÖZDEMİR O., Other International Funding Programs, a-SiC_x:H ince filmlerin üretilmesi ve ışayan 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 In_xGa_{1-x}N/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): 268
H-Index (WoS): 9
H-Index (Scopus): 9