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International Researcher IDs

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Education

Doctorate, Odtü, Fen Edebiyat, Fizik, Turkey Present

Odtü, Fen Edebiyat, Fizik, Turkey Present

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

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 Positions

Professor, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 2014 - Present

Articles

- I. **Analysis of polar algae under sunlight: spectral and time-series analysis**
KAVAL M., Bozkurt D., ÖZDEMİR O., BOZKURT K., İNAN B., TATLIPINAR H., BALKANLI D.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.38, no.4, pp.403-413, 2026 (SCI-Expanded, Scopus)
- II. **Indium and hafnium chloride modified titanium oxide thin films**
AYARCI KURUOĞLU N., CHOI F. P., ÖZDEMİR O.
Optik, vol.283, 2023 (SCI-Expanded, Scopus)
- III. **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, Scopus)
- IV. **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, Scopus)
- V. **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., Yilmaz M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.18, 2022 (SCI-Expanded, Scopus)

- VI. **Admittance Analysis in (PPE-PPV) Polymer (AnE-PVstat) Light Emitting Diodes**
Özdemir O., Pırvadılı Mucur S., Tekin E., Boudiba S., Ulbricht C., Egbe D., Menda D., Kavak P., Kutlu K.
SPIE Conference Proceedings, vol.8829, pp.882921-882924, 2013 (Conference Book)

Books

- 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

Papers Presented at Peer-Reviewed Scientific Conferences

- 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, (Full Text)
- 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, (Summary Text)
- III. **Investigation of Sol-Gel Deposited Vanadium Oxide By Capacitance/Voltage Measurement As SIS Structure**
SAATCI A. E., GÖKDEMİR F. P., ÖZDEMİR O., KUTLU K.
4th International Advances in Applied Physics and Materials Science Congress & Exhibition, Muğla Fethiye,
Turkey, 24 - 27 April 2014, (Summary Text)
- IV. **Dielectric Strength of WO₃ Thin Films By Admittance and Ellipsometry Measurements**
ÖZDEMİR O., GÖKDEMİR F. P., SAATCI A. E., KUTLU K.
4th International Advances in Applied Physics and Materials Science Congress & Exhibition, Muğla Fethiye,
Turkey, 24 - 27 April 2014, (Summary Text)
- V. **Electrical characterization of sol-gel derived TiO₂ Films on N/P c-Si substrates by admittance measurement**
SAATCI A. E., GÖKDEMİR F. P., ÖZDEMİR O., KUTLU K.
AMWC 2013: Advanced Materials World Congress, İzmir Çeşme, Turkey, 16 - 19 September 2013, (Summary Text)
- VI. **Simulation Study of Charge Transport in PCDTBT: PCBM Organic Solar Cell**
ÖZDEMİR O., SAATCI A. E., AYDOĞAN P., GÖKDEMİR F. P., MENDA U. D., KUTLU K.
3rd International Advances in Applied Physics & Materials Science Congress, Antalya, Turkey, 24 - 28 April
2013, (Summary Text)
- VII. **Carrier Transport Property of Organic Light Emitting Diode (OLED) Through Admittance Spectroscopy**
KAVAK P., TEKİN E., SAATCI A. E., GÖKDEMİR F. P., MENDA U. D., CAN N., ÖZDEMİR O., KUTLU K.
3rd International Advances in Applied Physics & Materials Science Congress, Antalya, Turkey, 24 - 28 April
2013, (Summary Text)
- VIII. **Influence of V₅ and V₄ Oxidation States on Electrochromic and IR Properties of Sol-Gel Deposited V₂O₅ Films**
GÖKDEMİR F. P., ÖZDEMİR O., KUTLU K.

EMRS Fall Meeting 2011, Varşova, Poland, 19 - 23 September 2011, (Summary Text)

- IX. **The influence of Er doping on the optical properties of CeO₂ thin films grown by PED**
GÖKDEMİR F. P., ÖZDEMİR O., KUTLU K., TATAR B.
26th International Physics Congress of Turkish Physical Association, Muğla-Bodrum, Turkey, 24 September 2009, (Summary Text)
- X. **Temperature Dependence of PECVD Grown Boron Nitride Film in MIS structure**
ÖZDEMİR O., BOZKURT B., YILMAZER U. D., GÖKDEMİR F. P., KUTLU K.
7th International Conference of the Balkan-Physical-Union, Alexandroupoli, Greece, 9 - 13 September 2009, (Full Text)
- XI. **Frequency dispersion originated from disordered layer within plasma grown boron nitride thin film**
ÖZDEMİR O., YILMAZER U. D., GÖKDEMİR F. P.
Diamond 2009: 20th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides, Atina, Greece, 6 - 10 September 2009, (Summary Text)
- XII. **Observation of Apparent MOS regimes on Al/PECVD Grown Boron Nitride/p-c-Si/Al MIS structure, investigated through admittance spectroscopy**
ÖZDEMİR O., GÖKDEMİR F. P., MENDA U. D., KUTLU K.
Diamond 2008: 19th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides, Sitges, Spain, 7 - 11 September 2008, (Summary Text)

Funded Projects

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

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

ÖZDEMİR O., Other International Funding Programs, a-SiC_x:H ince filmlerin üretilmesi ve ışılan PIN yapıya ayarlanması, Present

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

AYARCI KURUOĞLU N., baş h., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, BAP Research Project, Tek tabaka ve çoklu kuantum kuyudan oluşan 10 In katkılı In_xGa_{1-x}N/GaN LED yapıların elektronik optoelektronik özelliklerinin karşılaştırılması, 2021 - 2023

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

YAĞCI Ö., ÖZDEMİR O. K., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, BAP Research Project, Borik Asit Katkılanmış Cu₃SbS₃ Tabakasının Silikon Tabanlı Fotovoltaik Hücrelerde Kullanılması, 2021 - 2023

ÖZDEMİR O., BAŞ H., Project Supported by Higher Education Institutions, BAP PhD, 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, BAP Research Project, %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, BAP Research Project, a-Si:H/c-Si Eklemin HIT Türü Güneş Piliindeki Rolü, 2012 - 2015

ÖZDEMİR O., Project Supported by Higher Education Institutions, BAP PhD, 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, BAP PhD, Erbiyum Katkılı/Katkısız İnce Filmlerin Elektrokromik Özelliklerinin İncelenmesi, 2012 - 2015

ÖZDEMİR O., CHOI F. P., Project Supported by Higher Education Institutions, BAP Research Project, 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, BAP Other, PECVD yöntemiyle büyütülmüş bor nitür 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, BAP Research Project, Metal-yarıiletken yapıların elektriksel özelliklerinin incelenmesi., 2007 - 2009

Peer Reviews in Scientific Publications

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: 144

Citation (WoS): 336

Citation (Scopus): 322

H-Index (WoS): 9

H-Index (Scopus): 9