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Personal Information

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Education Information

Doctorate, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, Physics, Turkey 2020 - Continues

Postgraduate, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, Physics, Turkey 2011 - 2019

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1997 - 2003

Certificates, Courses and Trainings

Vocational Training, Eğiticilerin Eğitimi, Erzincan Binali Yildirim Üniversitesi, 2021

Vocational Training, XPS , Ege Üniversitesi (Ege Matal), 2021

Vocational Training, AFM All Modes , Park Systems, 2020

Vocational Course, Taramalı Elektron Mikroskobu Sertifika Programı, Orta Doğu Teknik Üniversitesi, 2019

Vocational Training, XRD Eğitimi, Atomika Teknik, 2018

Dissertations

Postgraduate, Farklı Sıcaklıklarda Sentezlenen TiO₂/ZnO Nanokompozit Yapıların Karakterizasyonu ve Boya Duyarlı

Güneş Pili Performanslarının İncelenmesi, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, 2019

Research Areas

Physics, Materials Science, Natural Sciences

Academic Titles / Tasks

Lecturer, Erzincan Binali Yildirim University, Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022 - Continues

Courses

Bilgisayar Destekli Devre Tasarımı, Associate Degree, 2022 - 2023

Bilgisayar Destekli Tasarım, Associate Degree, 2022 - 2023

Ölçme Tekniği, Associate Degree, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Detection performance of flower-like hydrothermally synthesized ZnO in silicon-type photodetector**
EDEN Ç., KOÇYİĞİT A., AYDOĞAN Ş., ÇIRAK Ç., YILMAZ M.
Physica Scripta, vol.99, no.6, 2024 (SCI-Expanded)
- II. **Optimizing the structural and photocatalytic performance of Ag-decorated ZnO/Zn(OH)₂ nanoparticles for RhB degradation**
ERDOĞAN E., EDEN Ç., CANPOLAT N., ÇIRAK Ç., YILMAZ M.
International Journal of Applied Ceramic Technology, vol.21, no.3, pp.2010-2023, 2024 (SCI-Expanded)
- III. **Gold-Nanoparticles-Decorated ZrO₂-CuO Nanocomposites: Synthesis, Characterization and A Novel Platform for Electrocatalytic Formaldehyde Oxidation**
Özdokur K. V., Koçak Ç. C., Eden Ç., Demir Z., Çırak Ç., Yavuz E., Çağlar B.
ChemistrySelect, vol.7, no.28, 2022 (SCI-Expanded)
- IV. **Facile synthesis and enhanced photo-electrocatalytic performance of TiO₂ nanotube/g-C₃N₄ composite catalyst by a novel synthesis approach**
Özdokur K. V., Bozkurt Çırak B., Eden Ç., Ahmad Boda M., Çırak Ç.
Optik, vol.206, 2020 (SCI-Expanded)
- V. **The enhanced light harvesting performance of dye-sensitized solar cells based on ZnO nanorod-TiO₂ nanotube hybrid photoanodes**
Bozkurt Çırak B., Eden Ç., Erdoğan Y., Demir Z., Özdokur K. V., Çağlar B., Morkoç Karadeniz S., Kılınç T., Ercan Ekinci A., Çırak Ç.
Optik, vol.203, 2020 (SCI-Expanded)
- VI. **Synthesis of TiO₂ nanotube/ZnO nanorod hybrid nanocomposite photoanodes for dye-sensitized solar cells**
Bozkurt Çırak B., Demir Z., Eden Ç., Erdoğan Y., Çağlar B., Morkoç Karadeniz S., Kılınç T., Ekinci A. E., Çırak Ç.
Journal of Materials Science: Materials in Electronics, vol.30, no.7, pp.6335-6341, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Synthesis, Characterization and Photoelectrochemical Properties of MoS₂ decorated TiO₂ Nanotubes Electrodes**
Bozkurt Çırak B., Eden Ç.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, vol.16, no.1, pp.279-286, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **CHARACTERIZATION AND DYE SENSITIZED SOLAR CELL PERFORMANCE OF TiO₂ / ZnO NANOCOMPOSITE NANOSTRUCTURES SYNTHESIZED AT REACTION TIME**
Çırak B. B., Eden Ç., Demir Z., Erdoğan Y., Kaymakçı M., ÇAĞLAR B., Karadeniz S. M., KILINÇ T., EKİNCİ A. E., ÖZDOKUR K. V., et al.
International Conference on Material Science and Technology, Ankara, Turkey, 18 - 20 October 2019, pp.902
- II. **CHARACTERIZATION AND DYE SENSITIZED SOLAR CELL PERFORMANCE OF TiO₂ / ZnO NANOCOMPOSITE STRUCTURES SYNTHESIZED AT DIFFERENT REACTION TIME**
BOZKURT ÇIRAK B., Eden Ç., Demir Z., YEŞİLBAĞ Y. Ö., Kaymakçı M., Kaymakçı M., ÇAĞLAR B., MORKOÇ KARADENİZ

S., SOLAKYILDIRIM T., EKİNCİ A. E., et al.

4. International conference on Materials Science and Technology, Ankara, Turkey, 18 October 2019

III. **PREPARATION, CHARACTERIZATION AND ENHANCED LIGHT HARVESTING PERFORMANCE OF DYE SENSITIZED SOLAR CELL BASED TiO₂ / ZnO NANOCOMPOSITES**

Eden Ç., Demir Z., BOZKURT ÇIRAK B., Erdoğan Y., ÇAĞLAR B., MORKOÇ KARADENİZ S., SOLAKYILDIRIM T., EKİNCİ A. E., ÖZDOKUR K. V., ÇIRAK Ç.

4. International conference on Materials Science and Technology, Ankara, Turkey, 18 October 2019

IV. **CHARACTERIZATION AND DYE SENSITIZED SOLAR CELL PERFORMANCE OF TiO₂ / ZnO NANOCOMPOSITE STRUCTURES SYNTHESIZED AT DIFFERENT REACTION TIME**

BOZKURT ÇIRAK B., Eden Ç., Demir Z., Erdoğan Y., Kaymakçı M., ÇAĞLAR B., MORKOÇ KARADENİZ S., SOLAKYILDIRIM T., EKİNCİ A. E., ÖZDOKUR K. V., et al.

4. International Conference on Material Science and Technology, 18 - 20 October 2019, pp.902

V. **TiO₂ Nanotüp Temelli Boya Duyarlı Güneş Pillerinde Karşıt Elektrotun Performansa Etkileri**

Demir Z., Bozkurt Çırak B., Eden Ç., Kılınç T., Morkoç Karadeniz S., Ekinci A. E., Çırak Ç.

International Symposium on Multidisciplinary Studies (ISMS), Ankara, Turkey, 16 - 17 November 2018, vol.1, no.1, pp.485

VI. **Electrochromic performance of WO₃ nanostructures grown on ZnO/ FTO and NiO/FTO seed layer**

MORKOÇ KARADENİZ S., BOZKURT ÇIRAK B., KILINÇ T., ÇIRAK Ç., Demir Z., Eden Ç., EKİNCİ A. E.

International conference of innovative engineering applications (CIEA 2018), Sivas, Turkey, 20 - 22 September 2018

VII. **Effect of Anodization Voltage on Electrophotocatalytic Performance of TiO₂ Nanotubes**

demir z., eden ç., BOZKURT ÇIRAK B., MORKOÇ KARADENİZ S., KILINÇ T., erdoğan y., GÖKÇE C., ÖZDOKUR K. V., EKİNCİ A. E., ÇIRAK Ç.

INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING APPLICATIONS, Sivas, Turkey, 20 - 22 September 2018

VIII. **Effect of Anodization Time on Electrophotocatalytic Performance of TiO₂ Nanotubes**

eden ç., demir z., BOZKURT ÇIRAK B., MORKOÇ KARADENİZ S., KILINÇ T., erdoğan y., GÖKÇE C., ÖZDOKUR K. V., EKİNCİ A. E., ÇIRAK Ç.

INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING APPLICATIONS, Sivas, Turkey, 20 - 22 September 2018

Supported Projects

ÇIRAK Ç., EDEN Ç., Project Supported by Higher Education Institutions, Ag/CuO Nanokompozit Yapıların Sentezi Karakterizasyonu ve Uygulamaları, 2023 - Continues

Morkoç Karadeniz S., Çırak Ç., Çağlar B., Ekinci A. E., Kılınç T., Bozkurt Çırak B., TUBITAK Project, TiO₂/ZnO Nanokompozit Yapıların Sentezi, Karakterizasyonu ve Boya Duyarlı Güneş Pili Performanslarının İncelenmesi, 2017 - 2021

Metrics

Publication: 15

Citation (WoS): 7

Citation (Scopus): 50

H-Index (WoS): 2

H-Index (Scopus): 4