

Res. Asst. İREM KOLAY

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-1061-2020

ScopusID: 7337359400

Yoksis Researcher ID: 320207

Education Information

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Chemistry, Turkey
2020 - 2022

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 2013 -
2019

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2020 -
Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **PbSe nanorod-quantum dot bulk nano-heterojunction solar cells generating multiple excitons with record photo conversion efficiencies**
KOLAY İ., Asil D.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)
- II. **Enhanced photocurrent in PbSe nanorod-quantum dot bulk nano-heterojunction solar cells**
Haciefendiođlu T., Balikođlu B., Aydın F., Kolay I., Öztürk İ. M., Asil D.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.2, pp.714-724, 2022 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Kurşun Selenyum Nano çubuk Temelli Nano Heteroeklem Güneş Hücreleri: Delik Taşıma Katmanının Cihaz Performansına Etkisi**

Kolay I., Asil Alptekin D.

33. Ulusal Kimya Kongresi, Tekirdađ, Turkey, 07 October 2021

II. Kurşun Selenyum Kuantum Nokta ve Nanoçubuk Temelli Güneş Hücrelerinde Şeffaf ZnO Elektron İletim Tabakasının Optimizasyonu

aydın f., ASİL ALPTEKİN D., KOLAY İ., Balıkođlu B.

33. Ulusal Kimya Kongresi, Turkey, 07 October 2021

III. KURŞUN SELENYUM KUANTUM NOKTA VE KURŞUN SELENYUM NANOÇUBUK TEMELLI NANO HETEROEKLEM GÜNEŞ HÜCRELERİNİN GELİŞTİRİLMESİ

KOLAY İ., ASİL ALPTEKİN D.

VIII. Ulusal Anorganik Kimya Kongresi, Turkey, 02 September 2021

Supported Projects

Asil Alptekin D., TÜBİTAK International Bilateral Joint Cooperation Program Project, Yüksek Verimli Nano Heteroeklem Güneş Pilleri İçin Pbse Kuantum Nokta/Nanorod Karışımlarında Çoklu Eksiton Üretimi Ve Ayrışmanın Açıklanması, 2023 - 2025

ASİL ALPTEKİN D., KOLAY İ., Project Supported by Higher Education Institutions, Elektriksel Bağlaşım İçinde Olan PbSe Nano çubuk ve Kuantum Nokta Temelli Elektron Verici-Alıcı Tipi Heteroeklem Güneş Hücrelerinin Tasarımı, 2022 - 2023

Tasks In Event Organizations

Türkyılmaz S., Toppare L. K., Önal A. M., Erel Göktepe İ., Aksoy E. A., Günbaş E. G., Duran H., Bayer Ö., Yıldırım E., Baytekin H. T., et al., IX. Polymer Science and Technology Congress with International Participation, Scientific Congress, Ankara, Turkey, Eylül 2024

Metrics

Publication: 5

Citation (WoS): 7

Citation (Scopus): 8

H-Index (WoS): 2

H-Index (Scopus): 2

Congress and Symposium Activities

ACS FALL 2023 Harnessing the Power of Data, Panelists, California, United States Of America, 2023

VIII.National Inorganic Chemistry Congress, Panelists, Tekirdađ, Turkey, 2021