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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**
Hacıefendioğlu T., Balıkoğlu 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, Tekirdağ, 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., Balıkoğlu B.
33. Ulusal Kimya Kongresi, Turkey, 07 October 2021

III. **KURŞUN SELENYUM KUANTUM NOKTA VE KURŞUN SELENYUM NANOÇUBUK TEMELLI NANO HETEROEKLEM GUNEŞ HUCRELERININ GELIŞTIRILMESI**
KOLAY İ., ASİL ALPTEKİN D.
VIII. Ulusal Anorganik Kimya Kongresi, Turkey, 02 September 2021

Supported Projects

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

Metrics

Publication: 5
Citation (Scopus): 3
H-Index (Scopus): 1

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, Tekirdağ, Turkey, 2021