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Education Information

Postgraduate, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, Turkey 2023 - Continues
Undergraduate Double Major, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2021 - Continues
Undergraduate, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, Turkey 2018 - 2023

Research Areas

Material science and engineering, Semiconductor and Superconductor Materials, Optical Properties, Glass Technology and Glass Ceramics, Material Characterization, Nanomaterials, Structure-Property Relationship, Equations of State, Phase Equilibria, and Phase Transitions, Structure of Liquids and Solids; Crystallography, Thermal Properties of Condensed Matter, Electronic structure of bulk material, Optical Properties, Spectroscopy of Matter

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Sm2O3-doped CsPbBr1I2 perovskite quantum dot glass nanocomposites for enhanced plant growth lighting**
EKİM U., İLTER E., Çelik H. S., Genç A., Slater T. J., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Materials Today Chemistry, vol.45, 2025 (SCI-Expanded)

II. **Glass-based LED system for indoor horticulture: enhanced plant growth through Sm3+ and Tm3+ co-doped luminescent glasses**
EKİM U., İlter E., Özan E., Temürhan Y., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Physical Chemistry Chemical Physics, vol.25, no.34, pp.23150-23163, 2023 (SCI-Expanded)

Metrics

Publication: 2

Citation (Scopus): 2
H-Index (Scopus): 1