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Education Information

Doctorate, Anadolu University, Institute Of Science, Katıhal Fiziği, Turkey 2015 - 2021
Postgraduate, Anadolu University, Institute Of Science, Katıhal Fiziği, Turkey 2011 - 2014
Undergraduate, Anadolu University, Faculty Of Science, Department Of Physics, Turkey 2005 - 2011

Research Areas

Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Lecturer, Bartin University, Rectorate, Rektörlük, 2014 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Immobilization Horseradish Peroxidase onto UiO-66-NH2 for Biodegradation of Organic Dyes**
Kurtuldu A., Esgin H., Yetim N. K., Semerci F.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.32, no.8, pp.2901-2909, 2022 (SCI-Expanded)

II. **Fabrication and characterization of green synthesized ZnO nanoparticle based dye-sensitized solar cells**
Shashanka R., EŞGİN H., Yilmaz V. M., Caglar Y.
JOURNAL OF SCIENCE-ADVANCED MATERIALS AND DEVICES, vol.5, no.2, pp.185-191, 2020 (SCI-Expanded)

III. **Synergetic activity enhancement in 2D CuO-Fe2O3 nanocomposites for the photodegradation of rhodamine B**
Alp E., Esgin H., Kazmanlı M. K., Genc A.
CERAMICS INTERNATIONAL, vol.45, no.7, pp.9174-9178, 2019 (SCI-Expanded)

IV. **Mesoporous nanocrystalline ZnO microspheres by ethylene glycol mediated thermal decomposition**
Alp E., Araz E. C., Buluc A. F., Guner Y., Deger Y., Esgin H., Dermenci K. B., Kazmanlı M. K., Turan S., Genc A.

ADVANCED POWDER TECHNOLOGY, vol.29, no.12, pp.3455-3461, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **The Effect of Morphology of Photoanode on Photovoltaic Properties of ZnO-DSSC**
Eşgin H., Çağlar Y.
Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.10, no.1, pp.378-390, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Effect of Sensitization Time On Photovoltaic Performance of ZnO Based DSSCs**
Eşgin H.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.262-265

II. **Dye sensitive solar cells based on Mn-doped ZnO photoelectrodes**
Eşgin H., Çağlar Y.
6th International conference on materials science and nanotechnology for next generation (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.64-69

III. **Cu: ZnO-DSSC Fabrication and Characterization**
Eşgin H., Çağlar Y.
6th International conference on materials science and nanotechnology for next generation (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.210-214

IV. **Effect of electrode dipping temperature on efficiency in dye sensitive solar cell with ZnO electrode**
Eşgin H., Çağlar Y.
International Eurasian Conference on Science, Engineering and Technology (EURASIANSCIENTECH 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2833-2838

V. **Effects of CuO Sacrified Template Amounts on The Morphologies Of Hematite (A-Fe2o3) Nanostructures for Photocatalytic Applications**
Eşgin H., Alp E., Kazmanlı M. K., Genç A.
Internatinonal Conference on Materials Science and Technology (IMSTEC'18), Nevşehir, Turkey, 17 - 19 September 2018, pp.753

VI. **ZnO Nanostructures: Hydrothermal Synthesis and Characterization**
Eşgin H., Çağlar Y.
Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, İzmir, Turkey, 10 - 12 April 2018, pp.651

VII. **Hydrothermal synthesis of hematite nanostructures for photocatalytic applications**
Eşgin H., Tekin B., Sönmezoğlu S., Turan S., Genç A.
International Conference On Renewable Energy 2018, Barcelona, Spain, 25 - 27 April 2018, pp.114

VIII. **Güneş Pili Uygulamaları için ZnO Yaprak Benzeri Nanoyapı Sentezi ve Yapısal Özelliklerinin İncelenmesi**
Eşgin H., Alp E., Genç A., Çağlar M.
23. Ulusal Elektron Mikroskopi Kongresi, Antalya, Turkey, 19 - 21 May 2017

IX. **Structural And Optical Properties of Cobalt Oxide Films Prepared by Spray Pyrolysis Method**
EŞGİN H.
Thirteenth International Conference on Flow Dynamics (ICFD2016), 10 - 12 October 2016

X. **Investigation on combining electrochromic devices and organic solar cells and their application areas: A review**
EŞGİN H.
2nd International Conference on Engineering and Natural Sciences, 24 - 28 May 2016

XI. **Characterization of Co3O4 Films Deposited by Ultrasonic Spray Pyrolysis Technique**
TURAN E., EŞGİN H.
8th International Conference on Surfaces, Coating and Nanostructured Materials, 22 - 25 September 2013

Metrics

Publication: 16
Citation (WoS): 25
Citation (Scopus): 110
H-Index (WoS): 3
H-Index (Scopus): 3