

## Lect. PhD HALİL EŞGİN

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### International Researcher IDs

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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, Bartın University, Rectorate, Rektörlük, 2014 - 2019

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Immobilization Horseradish Peroxidase onto UiO-66-NH<sub>2</sub> 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., Yılmaz 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-Fe<sub>2</sub>O<sub>3</sub> 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.

## 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 Sacrificed Template Amounts on The Morphologies Of Hematite (A-Fe<sub>2</sub>O<sub>3</sub>) 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 Mikroskopisi 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 Co<sub>3</sub>O<sub>4</sub> Films Deposited by Ultrasonic Spray Pyrolysis Technique**

TURAN E., EŐGİN 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