

## Lect. HAFİZE SEDA AYDINOĞLU

### Personal Information

Email: hsaydinoglu@cumhuriyet.edu.tr

Web: <https://avesis.cumhuriyet.edu.tr/hsaydinoglu>

### International Researcher IDs

ORCID: 0000-0003-0416-8276

Yoksis Researcher ID: 292778

### Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey 2019 - Continues

Postgraduate, Sivas Cumhuriyet University, Teknoloji Fakültesi, Optik Mühendisliği, Turkey 2016 - 2018

Undergraduate, Akdeniz University, Faculty Of Science, Department Of Physics, Turkey 2002 - 2007

### Dissertations

Postgraduate, Asimetrik çift eğimli kuantum kuyusunun optiksel özellikleri / Optical properties of asymmetric double graded quantum well, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Optik Mühendisliği, 2018

### Research Areas

Physics

### Academic Titles / Tasks

Lecturer, Sivas Cumhuriyet University, Sağlık Hizmetleri Meslek Yüksekokulu, Tibbi Hizmetler Ve Teknikler, 2018 - Continues

### Courses

Elektrik Elektronik, Associate Degree, 2019 - 2020

Temel Matematik, Associate Degree, 2018 - 2019

Akılcı İlaç Kullanımı, Associate Degree, 2018 - 2019

Üniversite Kültürü, Associate Degree, 2019 - 2020

Matematik, Associate Degree, 2019 - 2020

Radyasyondan Korunma, Associate Degree, 2019 - 2020

Temel Fizik, Associate Degree, 2019 - 2020

Fizik Ve Geometrik Optik - II, Associate Degree, 2018 - 2019

Temel Fizik, Associate Degree, 2019 - 2020

Optik ve Oftalmik Aletler, Associate Degree, 2019 - 2020

Temel Matematik, Associate Degree, 2018 - 2019

Optik ve Oftalmik Aletler, Associate Degree, 2019 - 2020

Elektrik Elektronik, Associate Degree, 2019 - 2020

Matematik, Associate Degree, 2019 - 2020

Tıbbi Terminoloji, Associate Degree, 2018 - 2019

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

- I. **Experimental and theoretical insights on the structural and optical properties of GeO<sub>x</sub> thin films deposited via RF magnetron sputtering under varying oxygen percentage**  
ŞENADIM TÜZEMEN E., Hopoğlu H., SARITAŞ S., AYDINOĞLU H. S., ERTUĞRUL M., Maslov M., KAYA S., UNGAN F., GÜR E.  
Physica B: Condensed Matter, vol.650, 2023 (SCI-Expanded)
- II. **Nonlinear optical properties in Al<sub>x</sub>Ga<sub>1-x</sub>As/GaAs double-graded quantum wells: The effect of the structure parameter, static electric, and magnetic field**  
AYDINOĞLU H. S., SAYRAÇ M., Mora-Ramos M., UNGAN F.  
Solid State Communications, vol.342, 2022 (SCI-Expanded)
- III. **Investigation of nitrogen doped ZnO thin films: Effects on their structural and optical properties**  
Hopoğlu H., Aydinoğlu H. S., Özer A., Şenadım Tüzemen E.  
Optical Materials, vol.122, no.PART A, pp.111685, 2021 (SCI-Expanded)
- IV. **Investigation of optical, electronic, and magnetic properties of p-type NiO thin film on different substrates**  
Kaya D., Aydinoğlu H. S., Şenadım Tüzemen E., Ekicibil A.  
Thin Solid Films, no.732, pp.138800, 2021 (SCI-Expanded)
- V. **Nonlinear optical properties of asymmetric double-graded quantum wells**  
Aydinoglu H. S., Sakiroglu S., Sari H., Ungan F., Sokmen I.  
PHILOSOPHICAL MAGAZINE, vol.98, no.23, pp.2151-2163, 2018 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Influence of oxygen pressure on optical properties of RF magnetron sputtering Ga<sub>2</sub>O<sub>3</sub> thin films**  
Hopoğlu H., Aydinoğlu H. S., Şenadım Tüzemen E.  
3. International Sciences and Innovation Congress, Ankara, Turkey,, Ankara, Turkey, 21 - 22 November 2021,  
pp.301
- II. **Influence of Pressure on ZnO/Al<sub>2</sub>O<sub>3</sub> Produced by RF Magnetron Sputtering on Glass Substrate**  
Hopoğlu H., Aydinoğlu H., DEMİR İ., ALTUNTAŞ İ., ŞİMŞİR M., ŞENADIM TÜZEMEN E.  
9TH INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM (IATS'21), 27 - 28 October 2021
- III. **Effect of oxygen pressure on structural and optical properties of germanium oxide thin films produced by RF magnetron sputtering technique**  
Hopoğlu H., Sarıtaş S., Aydinoğlu H. S., Ertuğrul M., Gür E., Şenadım Tüzemen E.  
IX. International Advanced Technologies,, Elazığ, Turkey, 27 - 28 October 2021, pp.15
- IV. **Formation of p-type NiO thin films on different substrates: Structural, electrical, optical, and magnetic properties.**  
Kaya D., Aydinoğlu H. S., Şenadım Tüzemen E., Ekicibil A.  
International Conference on Oxide Materials for Electronic Engineering. Fabrication, Properties and Applications (OMEE), Lviv, Ukraine, 28 September - 02 October 2021, pp.38
- V. **Structural and morphological characterization of nitrogen doped ZnO thin films.**  
Aydinoğlu H. S., Hopoğlu H., Şenadım Tüzemen E.

2nd International Conference on Light and Light-based Technologies (ICLLT), Gazi University, Ankara, Turkey, , Ankara, Turkey, 26 - 28 May 2021, pp.104

**VI. Optical properties of nitrogen doped ZnO thin films grown on n-Si and glass substrate.**

Hopoğlu H., Aydinoğlu H. S., Şenadım Tüzemen E.

2nd International Conference on Light and Light-based Technologies (ICLLT), Gazi University, Ankara, Turkey,, Ankara, Turkey, 26 - 28 May 2021, pp.112

**VII. Thickness dependence of structural and optical properties of nitrogen doped ZnO thin films on glass**

Hopoğlu H., Aydinoğlu H. S., Özer A., Şenadım Tüzemen E.

2nd International Conference on Light and Light-based Technologies (ICLLT), Gazi University, Ankara, Turkey, Ankara, Turkey, 26 - 28 May 2021, pp.114

**VIII. Structural and electrical properties of p-type NiO thin films produced by thermal evaporation on different substrates.**

Aydinoğlu H. S., Kaya D., Şenadım Tüzemen E., Ekicibil A.

2nd International Conference on Light and Light-based Technologies (ICLLT), Gazi University, Ankara, Turkey, , Ankara, Turkey, 26 - 28 May 2021, pp.106

**IX. Nonlinear optical properties of asymmetric double graded quantum well under intense laser field**

Aydinoğlu H. S., UNGAN F., YEŞİLGÜL Ü., KASAPOĞLU E., SARİ H., SÖKMEN İ.

4 th International Conference on Materials Science and Nanotechnology for Next Generation, 28 - 30 June 2017

## Metrics

Publication: 14

Citation (WoS): 6

Citation (Scopus): 32

H-Index (WoS): 1

H-Index (Scopus): 2