

## Assoc. Prof. HASAN AĞIL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AEI-3167-2022

ScopusID: 25924673100

Yoksis Researcher ID: 113500

### Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2008 - 2014

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2006 - 2008

Undergraduate, Bolu Abant İzzet Baysal University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 2001 - 2006

Associate Degree, Ondokuz Mayıs University, Bafra Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, Turkey 1997 - 1999

### Dissertations

Doctorate, Organik bileşik katkılı MgB<sub>2</sub> süperiletken tellerin üretimi ve fiziksel karakterizasyonu, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2014

Postgraduate, Bor esaslı intermetalik bileşiklerin manyetik,yapısal ve termal karakterizasyonu, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2008

### Academic Titles / Tasks

Associate Professor, Hakkari University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği Bölümü, 2022 - Continues

Hakkari University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği Bölümü, 2014 - Continues

Lecturer, Hakkari University, Çölemerik Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2009 - 2014

### Academic and Administrative Experience

Hakkari University, 2019 - Continues

Hakkari University, 2016 - 2017

Hakkari University, 2014 - 2017

Hakkari University, 2014 - 2016

### Courses

## Postgraduate

Fizikte Matematik Metotları I, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Elektromanyetik Teori II, Postgraduate, 2019 - 2020, 2018 - 2019

Kathal Fiziği I, Postgraduate, 2019 - 2020

Manyetizma ve Manyetik Malzemelere Giriş, Postgraduate, 2018 - 2019

Malzemelerin Elektriksel Özellikleri, Postgraduate, 2018 - 2019

Süperiletkenliğe Giriş, Postgraduate, 2018 - 2019

Malzeme Karakterizasyonunda X-Işını Teknikleri, Postgraduate, 2018 - 2019

## Undergraduate

Matematik I, Undergraduate, 2020 - 2021

Matematik III, Undergraduate, 2020 - 2021, 2019 - 2020

Matematik II, Undergraduate, 2019 - 2020

Kompleks Değişkenler Teorisi, Undergraduate, 2019 - 2020

Matematik IV, Undergraduate, 2019 - 2020

Diferansiyel Denklemler, Undergraduate, 2019 - 2020, 2018 - 2019

Temel Matematik II, Undergraduate, 2015 - 2016

Yüksek Sıcaklık Süperiletkenliğine Giriş, Undergraduate, 2015 - 2016

## Associate Degree

Termodinamik, Associate Degree, 2016 - 2017

Temel Matematik, Associate Degree, 2015 - 2016

## Supervised Theses

HASAN A., HAKAN G., Nadir toprak elementi katkılı BSCCO bulk süperiletkenlerin sol jel yöntemi ile üretimi ve karakterizasyonu, Postgraduate, H.KURT(Student), 2022

HASAN A., Darbeli lazer biriktirme (PLD) sistemi ile üretilen itriyum demir garnet ince filmlerin manyetik tepkisi üzerindeki gerilme etkileri, Postgraduate, S.ÖZÖĞLU(Student), 2021

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

- I. **Pinning behaviour of carbon black reinforced MgB<sub>2</sub> superconductor fabricated by field assisted sintering technique**  
AĞIL H., AĞIL A. A., Ayas E.  
Journal of Physics and Chemistry of Solids, vol.189, 2024 (SCI-Expanded)
- II. **Investigation of MgB<sub>2</sub> bulk superconductors synthesized by in situ spark plasma sintering at different temperatures**  
AĞIL H., Agil A. A., GÜNER S. B., Ayas E.  
Materials Chemistry and Physics, vol.306, 2023 (SCI-Expanded)
- III. **Investigation of the effects of gamma radiation on microstructure, critical current density, and densification properties of lanthanum-added BSCCO bulk ceramic superconductors**  
AĞIL H., Agil A. A.  
Journal of the Australian Ceramic Society, vol.58, no.2, pp.675-682, 2022 (SCI-Expanded)
- IV. **Research of both  $\gamma$ -irradiation and La<sub>2</sub>O<sub>3</sub> addition on structural and magnetoresistivity of Bi-2223 bulk superconductors**  
AĞIL H., Ozoglu S.  
International Journal of Applied Ceramic Technology, vol.18, no.3, pp.677-683, 2021 (SCI-Expanded)
- V. **Influence of gamma irradiation exposure on structural, electrical and magnetic properties of Bi-2223 with Nb<sub>2</sub>O<sub>5</sub> addition**  
AĞIL H., Ozoglu S.

- Journal of Materials Science: Materials in Electronics, vol.30, no.16, pp.15356-15361, 2019 (SCI-Expanded)
- VI. **Study of microstructure and magneto-transport properties in Bi<sub>1.6</sub>Pb<sub>0.4</sub>Sr<sub>2</sub>Ca<sub>3</sub>GdxCu<sub>4</sub>O<sub>8</sub> superconducting systems**  
AĞIL H.  
Journal of Materials Science: Materials in Electronics, vol.29, no.19, pp.16157-16165, 2018 (SCI-Expanded)
- VII. **Role of Aniline Addition in Structural and Superconducting Properties of MgB<sub>2</sub> Bulk Superconductor**  
AĞIL H., Aksu E., GENÇER A.  
Journal of Superconductivity and Novel Magnetism, vol.30, no.10, pp.2735-2740, 2017 (SCI-Expanded)
- VIII. **The Effects of Structural, Thermal, and Magnetic Properties of Hexylbenzene-Doped MgB<sub>2</sub> Superconductor**  
AĞIL H., Aksu E., Aktürk S., GENÇER A.  
Journal of Superconductivity and Novel Magnetism, vol.30, no.7, pp.1727-1736, 2017 (SCI-Expanded)
- IX. **Fabrication and characterization of C<sub>15</sub>H<sub>12</sub>O<sub>2</sub> doped MgB<sub>2</sub> bulk superconductors**  
Ağıl H., Yetis H., AKDOĞAN M. A., Altug C., Akturk S., GENÇER A.  
Cryogenics, vol.63, pp.138-142, 2014 (SCI-Expanded)
- X. **Effects of mgo on the electronic and superconducting properties in succinic acid (C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>) doped MgB<sub>2</sub> bulks**  
Ağıl H., Çiçek Ö., Ertekin E., Motaman A., Hossain M., Dou S., GENÇER A.  
Journal of Superconductivity and Novel Magnetism, vol.26, no.5, pp.1525-1529, 2013 (SCI-Expanded)
- XI. **Structurally homogeneous MgB<sub>2</sub> superconducting wires through economical wet mixing process**  
Hossain M. A., Motaman A., Xu X., See K. W., Çiçek Ö., Ağıl H., Ertekin E., Gencer A., Cheong K., Maeda M., et al.  
Materials Letters, vol.91, pp.356-358, 2013 (SCI-Expanded)
- XII. **The effects of annealing temperature on the in-field J<sub>c</sub> and surface pinning in silicone oil doped MgB<sub>2</sub> bulks and wires**  
Hossain M., Motaman A., Çiçek Ö., AĞIL H., Ertekin E., GENÇER A., Wang X., Dou S.  
Cryogenics, vol.52, no.12, pp.755-759, 2012 (SCI-Expanded)
- XIII. **Microstructural and superconducting properties of C<sub>6</sub>H<sub>6</sub> added bulk MgB<sub>2</sub> superconductor**  
Babaoglu M. G., SAFRAN S., Çiçek Ö., Agıl H., Ertekin E., Hossain M. A., ERGENÇ E., GENÇER A.  
Journal of Magnetism and Magnetic Materials, vol.324, no.21, pp.3455-3459, 2012 (SCI-Expanded)
- XIV. **Physical properties of Sm<sub>1-x</sub>Gd<sub>x</sub>Ni<sub>4</sub>B compounds**  
Kantarci N., Nane O., ÖZÇELİK B., Kervan S., Ağıl H.  
Journal of Superconductivity and Novel Magnetism, vol.24, no.1-2, pp.793-799, 2011 (SCI-Expanded)
- XV. **Low field AC susceptibility study of YBCO prepared by top seeded melt growth**  
Güçlü N., Yeşilkanat C., AĞIL H., Doğan F., GENÇER A., Kölemen U.  
Journal of Superconductivity and Novel Magnetism, vol.24, no.1-2, pp.261-264, 2011 (SCI-Expanded)
- XVI. **Magnetic properties of the PrCo<sub>4</sub> - xNi<sub>x</sub>B borides**  
AĞIL H., Kervan N., Kervan S., Sözeri H., GENÇER A.  
Journal of Alloys and Compounds, vol.478, no.1-2, pp.437-440, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Structural, Electrical and Magnetic Properties of FeO added GdBaCuO Superconductors**  
AĞIL H., AKDURAN N.  
ADVANCED JOURNAL OF SCIENCE AND ENGINEERING, vol.1, no.4, pp.122-127, 2020 (Peer-Reviewed Journal)
- II. **Niyobyum İlavesinin (Bi, Pb)-2223 Bulk Süperiletken Sistemine Etkisi Üzerine Bir Araştırma**  
AĞIL H.  
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.10, no.4, pp.1188-1194, 2020 (Peer-Reviewed Journal)
- III. **Influences of Cerium Addition on the Structural and Superconducting Properties with Pb and Pb-free Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>8</sub> System**  
Ağıl H.

Cumhuriyet Science Journal, vol.38, no.3, pp.492-501, 2017 (Peer-Reviewed Journal)

- IV. **Observation of magnetocaloric effect in the LaMn<sub>1.9</sub>Fe<sub>0.1</sub>Si<sub>2</sub> compound at low fields in the vicinity of phase transition around room temperature**  
Nane O., Ail H., Özkurt B., ÖZÇELİK B., GENÇER A.  
Journal of Physics: Conference Series, vol.153, 2009 (Scopus)

## Papers Published in Refereed Scientific Meetings

- I. **Research on the Impacts of SiC Reinforcement on the Densification, Microstructure, Electrical and Magnetic Properties of MgB<sub>2</sub> Bulk Superconductors Produced by In-Situ Spark Plasma Sintering (SPS) Technique**  
AĞIL H., AĞIL A. A., GÜNER S. B., AYAS E.  
8th International Conference on Superconductivity and Magnetism (ICSM2023), Muğla, Turkey, 04 May 2023, pp.363
- II. **PHASE FORMATION AND MICROSTRUCTURE PROPERTIES OF MgB<sub>2</sub> SUPERCONDUCTOR SYNTHESIZED BY IN-SITU SPARK PLASMA SINTERING**  
AĞIL H.  
9th INTERNATIONAL CONFERENCE ON ENGINEERING NATURAL SCIENCES, 13 November 2020
- III. **ROLE OF PRESSURE ON DENSITY AND STRUCTURE OF MgB<sub>2</sub> BULK SUPERCONDUCTOR PREPARED WITH COLD ISOSTATIC PRESS**  
AĞIL H.  
9th International Conference on Advanced Technologies, 10 - 12 August 2020
- IV. **INFLUENCE OF GAMMA IRRADIATION EXPOSURE ON STRUCTURAL, ELECTRICAL AND MAGNETIC PROPERTIES OF Bi-2223 WITH Nb<sub>2</sub>O<sub>5</sub> ADDITION**  
Ozoglu S., AĞIL H.  
35. Türk Fizik Derneği Uluslararası Fizik Kongresi, Bodrum-Muğla, Turkey, 4 - 08 September 2019
- V. **Study of Microstructure and Magneto-Transport Properties Bi<sub>1.6</sub>Pb<sub>0.4</sub>Sr<sub>2</sub>Ca<sub>3</sub>Gd<sub>x</sub>Cu<sub>4</sub>O<sub>8</sub> Superconducting Systems**  
AĞIL H.  
6th International Conference on Superconductivity and Magnetism, 29 April - 04 May 2018
- VI. **Influence of Pb on structural and superconducting properties of cerium added Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> system**  
AĞIL H.  
IV. International Multidisciplinary Congress of Eurasia, Roma, Italy, 23 - 25 August 2017
- VII. **Synthesis and Characterization of Gd-Doped Bismuth Based Superconducting Materials**  
AĞIL H.  
Turkish Physical Society 33rd International Physics Congress, Bodrum/Muğla, Turkey, 6 - 10 September 2017
- VIII. **The Effects of Structural Thermal and Magnetic Properties of Hexylbenzene Doped MgB<sub>2</sub> Superconductor**  
AĞIL H., Aksu E., AKTÜRK S., GENÇER A.  
5th International Conference on Superconductivity and Magnetism, Muğla, Turkey, 24 - 30 April 2016

## Supported Projects

AĞIL H., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Süperiletkenlik Araştırma Merkez Laboratuvarı, 2010 - Continues

AĞIL H., Çok Damarlı MgB<sub>2</sub> Süperiletken Üretimi Nano Boyutta Katkılamaya Yöntemi ile Özelliklerinin İyileştirilmesi ve Fiziksel Karakterizasyonu, Continues

TUBITAK Project, Nano Boyutta SiC C ve Aromatik Hidrokarbon Katkılı MgB<sub>2</sub> Süperiletken Külçe Tel Şerit Üretimi ve

Karakterizasyonu, Continues

AĞIL H., TÜBİTAK Project, Süperiletken Uygulamalarına Yönelik MgB<sub>2</sub>'nin Spark Plazma Sinterleme Yöntemi ile Elementel Bor, Magnezyum ve Karbon Tozları Kullanılarak Üretimi ve Karakterizasyonu, 2021 - 2023

AĞIL H., GÜNDOĞMUŞ H., ULUTAŞ C., Project Supported by Higher Education Institutions, YARIİLETKEN İNCE FİLMLERİN ELDE EDİLMESİ VE KARAKTERİZASYONU, 2021 - 2023

AĞIL H., Project Supported by Higher Education Institutions, BSCCO Yüksek Sıcaklık Süperiletkeninin Termal, Yapısal, Elektriksel ve Manyetik Özelliklerine Gama Işımasının Etkileri, 2018 - 2020

AĞIL H., Project Supported by Higher Education Institutions, Katkı Malzemelerinin ve Isıl İşlem Süreçlerinin BSCCO Süperiletken Sistemine Etkileri, 2017 - 2017

AĞIL H., Project Supported by Higher Education Institutions, Nano Boyutta Organik Bileşik Katkılı MgB<sub>2</sub> Süperiletken Külçe Üretimi ve Karakterizasyonu, 2014 - 2016

## Metrics

Publication: 28

Citation (Scopus): 72

H-Index (Scopus): 6