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**HACİİSMAİLOĞLU**

### **Personal Information**

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### **International Researcher IDs**

ORCID: 0000-0002-0781-3376

Publons / Web Of Science ResearcherID: K-7950-2012

ScopusID: 8975743500

Yoksis Researcher ID: 125774

### **Education Information**

Doctorate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 2005 - 2011

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 2002 - 2005

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 1998 - 2002

### **Foreign Languages**

English, B2 Upper Intermediate

### **Research Areas**

Electronic and magnetic devices, microelectronics, Surfaces, Interfaces, Thin Films and Nanosystems, Electronic structure of bulk material, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures

### **Academic Titles / Tasks**

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2023 - Continues

Research Assistant PhD, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2011 - 2023

Research Assistant PhD, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 2013 - 2014

Research Assistant PhD, University of Bristol, Fizik, 2012 - 2012

Research Assistant, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2005 - 2011

Research Assistant, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, FEN BİLİMLERİ ENSTİTÜSÜ, 2002 - 2005

## Courses

Physics II Laboratory, Undergraduate, 2022 - 2023  
Manyetizma ve Uygulamaları, Undergraduate, 2022 - 2023  
Physics II, Undergraduate, 2022 - 2023  
Basic Physics II, Undergraduate, 2019 - 2020  
FİZİK II, Undergraduate, 2019 - 2020  
Physics I Laboratory, Undergraduate, 2020 - 2021, 2019 - 2020  
Physics I, Undergraduate, 2020 - 2021, 2019 - 2020  
Basic Physics II, Undergraduate, 2019 - 2020  
Basic Physics I, Undergraduate, 2020 - 2021, 2019 - 2020  
Basic Physics I, Undergraduate, 2020 - 2021, 2019 - 2020  
Physics II Laboratory, Undergraduate, 2019 - 2020  
Physics II, Undergraduate, 2019 - 2020  
BASIC PHYSICS II, Undergraduate, 2018 - 2019  
Temel Fizik I, Undergraduate, 2018 - 2019  
Fizik II, Undergraduate, 2017 - 2018  
Fizik II, Undergraduate, 2017 - 2018  
Fizik II, Undergraduate, 2017 - 2018  
Fizik I, Undergraduate, 2017 - 2018  
Fizik I, Undergraduate, 2017 - 2018  
Fizik I, Undergraduate, 2017 - 2018  
KATIHAL FİZİĞİNE GİRİŞ LABORATUVARI, Undergraduate, 2017 - 2018

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

- I. **A new prospect to measure the built-in potential for photodiodes**  
HACİİSMAİLOĞLU M. C., AHMETOĞLU M.  
Materials Science and Engineering: B, vol.298, 2023 (SCI-Expanded)
- II. **Effect of Mn doping on structural, optical and magnetic properties of ZnO films fabricated by sol-gel spin coating method**  
Gültekin Z., Alper M., Hacıismailoğlu M. C., Akay C.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, pp.1-14, 2023 (SCI-Expanded)
- III. **Electrical and optical properties of Schottky diodes fabricated by electrodeposition of Ni films on n-GaAs**  
HACİİSMAİLOĞLU M. C., AHMETOĞLU M., ŞAFAK HACİİSMAİLOĞLU M., ALPER M., Batmaz T.  
Sensors and Actuators A: Physical, vol.347, 2022 (SCI-Expanded)
- IV. **Thermally evaporated FeMGaMnSi (M=Co, Ni) high entropy alloy thin films: Magnetic and magnetoresistance properties**  
Hacıismailoğlu M. C., Sarlar K., Tekgul A., Küçük İ.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.539, 2020 (SCI-Expanded)
- V. **Electrodeposition and Characterization of Co Particles on Ultrathin Polypyrrole Films**  
Hacıismailoglu M., Hacıismailoglu M. C., ALPER M., Schwarzacher W.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.27, no.11, pp.2599-2606, 2014 (SCI-Expanded)
- VI. **Coating Effect on Magnetic Properties of Fe<sub>36</sub>Co<sub>36</sub>B<sub>19.2</sub>Si<sub>4.8</sub>Mo<sub>3</sub>W<sub>1</sub> Amorphous Ribbons**  
Perincek F., Hacıismailoglu M., Sarlar K., Hacıismailoglu M. C., Alper M., Kucuk I.  
ACTA PHYSICA POLONICA A, vol.125, no.2, pp.408-410, 2014 (SCI-Expanded)
- VII. **Prediction of dynamic hysteresis loops of nano-crystalline cores**  
Hacıismailoğlu M. C., Küçük İ., Derebaşı N.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.2, pp.2225-2227, 2009 (SCI-Expanded)
- VIII. **Dynamic hysteresis modelling for nano-crystalline cores**

KÜÇÜK İ., HACIİSMAİLOĞLU M. C., DEREBAŞI N.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.2, pp.3188-3190, 2009 (SCI-Expanded)

**IX. Temperature dependence of electrical characteristics of Cr/p-Si(100) Schottky barrier diodes**

Erturk K., HACIİSMAİLOĞLU M. C., Bektöre Y., Ahmetoglu M.

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.22, no.14, pp.2309-2319, 2008 (SCI-Expanded)

**X. Structural, morphological and optical properties of Al/SnO<sub>2</sub>/p-Si (MIS) Schottky diodes**

Taysioglu A. A., Erturk K., HACIİSMAİLOĞLU M. C., Derebasi N.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.2, pp.356-358, 2008 (SCI-Expanded)

**XI. Prediction of optical parameters of Sn doped CdO films using neural network**

Erturk K., Kose S., Atay F., Bilgin V., Akyuz I., HACIİSMAİLOĞLU M. C., Kucuk I., Derebasi N.

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.2, pp.335-338, 2008 (SCI-Expanded)

**XII. Modelling of power loss in electrical steels**

Kucuk I., Erturk K., Hacıismailoglu M. C., Derebasi N.

ACTA PHYSICA POLONICA A, vol.113, no.1, pp.147-150, 2008 (SCI-Expanded)

**XIII. Electrical properties of n-Si /Cu Schottky diodes formed by electrodeposition**

AHMETOĞLU M., ALPER M., Safak M., Erturk K., Gurpinar B., KOÇAK F., HACIİSMAİLOĞLU M. C.

Journal of Optoelectronics and Advanced Materials, vol.9, no.4, pp.818-821, 2007 (SCI-Expanded)

**XIV. Investigation of electrical and optical properties of n Type Si Au Schottky barrier diode**

BEKTÖRE Y., YÜCEL E., ERTÜRK K., HACIİSMAİLOĞLU M. C.

Romanian Journal Of Physics, vol.49, pp.105-112, 2004 (SCI-Expanded)

## Articles Published in Other Journals

**I. Design and Construction of Home-Made Spin Coater for OLED Production**

Gültekin Z., Alper M., Akay C., Hacıismailoğlu M. C.

International Journal of Electronics and Device Physics, vol.5, no.1, pp.0-11, 2021 (Peer-Reviewed Journal)

**II. Effect of geometrical properties on giant magneto impedance of Fe based amorphous ribbons**

KAYA A. A., HACIİSMAİLOĞLU M. C., DEREBAŞI N.

Balkan Physics Letter, Bogazici University Press, vol.16, pp.161060-161065, 2009 (Peer-Reviewed Journal)

**III. Effects of post production techniques for amorphous materials on giant magneto impedance**

KAYA A. A., HACIİSMAİLOĞLU M. C., DEREBAŞI N.

Journal of Optoelectronics and Advanced Materials - Symposia, vol.1, no.3, pp.440-442, 2009 (Peer-Reviewed Journal)

**IV. Cutting effect and surface characterization of as cast and post production treated Fe<sub>4</sub>Co<sub>6</sub>Si<sub>12</sub>B<sub>15</sub> amorphous wires**

Peksöz A., Akay S. K., Ertürk K., Hacıismailoğlu M. C., Derebaşı N., Kaynak Z. G.

Journal of Optoelectronics and Advanced Materials - Symposia, vol.1, pp.355-358, 2009 (Peer-Reviewed Journal)

**V. Prediction of dynamic hysteresis loops in nano crystalline toroidal cores using artificial neural networks**

HACIİSMAİLOĞLU M. C., KAYA A. A., ERTÜRK K., KÜÇÜK İ., DEREBAŞI N.

Journal of Optoelectronics and Advanced Materials - Symposia, vol.1, no.3, pp.487-489, 2009 (Peer-Reviewed Journal)

**VI. Temperature dependent barrier characteristics of Pt n Si<sub>0.76</sub>Ge<sub>0.24</sub> n Si Schottky diodes based on I V T measurements**

ERTÜRK K., HACIİSMAİLOĞLU M. C., KAYA A. A., BEKTÖRE Y.

AIP CONFERENCE PROCEEDINGS, vol.899, pp.443-444, 2007 (Peer-Reviewed Journal)

**VII. Structural optical and electrical properties of Al SnO<sub>2</sub> p Si MIS diodes**

KAYA A. A., ERTÜRK K., BEKTÖRE Y., HACIİSMAİLOĞLU M. C.

AIP CONFERENCE PROCEEDINGS, vol.899, pp.586, 2007 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **BÖLÜM 11: AÇISAL MOMENTUM**  
HACİSMAİLOĞLU M. C.  
in: FEN VE MÜHENDİSLİK İÇİN FİZİK, D. ESRA YILDIZ, EROL KURT, H. HİLAL KURT, Editor, NOBEL AKADEMİK YAYINCILIK EĞİTİM DANIŞMANLIK TİC. LTD. ŞTİ., pp.131-139, 2015
- II. **BÖLÜM 12: STATİK VE ESNEKLİK**  
HACİSMAİLOĞLU M. C.  
in: FEN VE MÜHENDİSLİK İÇİN FİZİK, D. ESRA YILDIZ, EROL KURT, H. HİLAL KURT, Editor, NOBEL AKADEMİK YAYINCILIK EĞİTİM DANIŞMANLIK TİC. LTD. ŞTİ., pp.140-149, 2015
- III. **HALL OLAYI, NTC TERMİSTÖRÜN KARAKTERİSTİKLERİ, TERMoeLEKTRİK ÇİFT (TERMOKUPL), BPW41N SİLİSYUM PIN FOTODİYOT**  
Bektöre Y., Alper M., Küçük İ., Özer M., Ertürk K., Hacismailoğlu M. C.  
in: Kathal Fiziği Laboratuvarı Deney Kılavuzu, Yüksel Bektöre, Mürsel Alper, İlker Küçük, Mehmet Özer, Kadir Ertürk, M. Cüneyt Hacismailoğlu, Editor, Uludağ Üniversitesi Yayınları, Bursa, pp.1-97, 2005

## Refereed Congress / Symposium Publications in Proceedings

- I. **Structural properties of silicon nanowires produced by metal-assisted chemical etching method**  
Bozdoğan E., HACİSMAİLOĞLU M. C., ŞAFAK HACİSMAİLOĞLU M., ALPER M., Erdoğan N.  
8th International conference on materials science and nanotechnology for next generation (MSNG2021), Elazığ, Turkey, 14 July 2021, pp.57
- II. **Electrodeposition of p-type Copper-oxide films from an alkaline solution**  
SUBAŞI E., HACİSMAİLOĞLU M. C., ŞAFAK HACİSMAİLOĞLU M., ALPER M.  
8th International conference on materials science and nanotechnology for next generation (MSNG2021), Elazığ, Turkey, 14 July 2021
- III. **PHOTOELECTRICAL PROPERTIES OF Ag/n-GaAs SCHOTTKY DIODES**  
Batmaz T., Kirezli B., Hacismailoğlu M. C., Ahmetoğlu M.  
3rd International Conference on Organic Electronic Material Technologies, Kırklareli, Turkey, 20 - 22 September 2018
- IV. **Structural and magnetic properties of thermal evaporated  $\text{Co}_{37.2}\text{Fe}_{23.1}\text{B}_{22.7}\text{Si}_{5.3}\text{Nb}_{5}\text{Ni}_{6.7}$  thin films**  
HACİSMAİLOĞLU M. C., ŞARLAR K., KÜÇÜK İ.  
International Conference on Strongly Correlated Electron Systems, 17 - 21 July 2017
- V. **Structural and optical properties of electrodeposited NiO thin films**  
Epiri Ç., ŞAFAK HACİSMAİLOĞLU M., ALPER M., HACİSMAİLOĞLU M. C.  
12th INTERNATIONAL WORKSHOP ON ELECTRODEPOSITED NANOSTRUCTURES, Sofija, Bulgaria, 16 - 18 March 2017
- VI. **Finite element model for cutting effects on flux density distribution near the cut edge of grain oriented electrical steels**  
HACİSMAİLOĞLU M. C., KARA A.  
8th European Conference on Magnetic Sensors and Actuators, Muğla, Turkey, 4 - 07 July 2010
- VII. **Estimation of dynamic hysteresis loops of nanocrystalline toroidal cores using numerical techniques**  
HACİSMAİLOĞLU M. C., KARA A.  
8th European Conference on Magnetic Sensors and Actuators, Muğla, Turkey, 4 - 07 July 2010
- VIII. **Modelling hysteresis loops of  $\text{Fe}_{73}\text{Si}_{5}\text{Cu}_{1}\text{Nb}_{3}\text{Si}_{15}\text{B}_{7}$  nanocrystalline toroidal cores using numerical techniques**  
HACİSMAİLOĞLU M. C., KARA A.  
19th Soft Magnetic Materials Conference, Torino, Italy, 6 - 09 September 2009
- IX. **Prediction of dynamic hysteresis loops on Fe based nano crystalline toroidal cores using neural**

## networks

HACİSMAİLOĞLU M. C., KARA A.

EMSA'08 8th European Conference on Magnetic Sensors and Actuators, Caen, France, 29 June - 02 July 2008

- X. **Estimation of power loss in soft magnetic materials using neural networks and genetic algorithm**  
HACİSMAİLOĞLU M. C., KARA A.  
3rd International Conference on Magnetism and Metallurgy, Ghent, Belgium, 4 - 06 June 2008
- XI. **Bor katkılı nano kristal toroid çekirdeklerde histeresis eğrisinin yapay sinir ağları ile modellenmesi**  
HACİSMAİLOĞLU M. C., KARA A.  
2. Ulusal Bor Çalıştayı, Ankara, Turkey, 17 - 18 April 2008, pp.539-542
- XII. **Temperature dependent barrier characteristics of Pt/n-Si0.76Ge0.24/n-Si Schottky diodes based on I-V-T measurements**  
Erturk K., Hacısmailoglu M. C., Taysioglu A. A., Bektore Y.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.443-444
- XIII. **Structural, optical and electrical properties of Al/SnO<sub>2</sub>/p-Si MIS diodes**  
Taysioglu A. A., Erturk K., Bektore Y., HACİSMAİLOĞLU M. C.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.586
- XIV. **Photon Detection Efficiency for MOS Capacitors**  
HACİSMAİLOĞLU M. C., PİLİÇER E., TAPAN İ., BEKTÖRE Y.  
6th International Conference of the Balkan Physical Union, İstanbul, Turkey, 22 - 26 August 2006, pp.434

## Supported Projects

ALPER M., VATANSEVER D., KUŞ E., BOZDOĞAN E., ORHAN İ., ŞAFAK HACİSMAİLOĞLU M., HACİSMAİLOĞLU M. C., GÜLTEKİN Z., SUBAŞI E., Project Supported by Higher Education Institutions, Süperkapasitör ve spinOLEDlerde kullanılan malzemelerin yapısal özelliklerinin incelenmesi ve diğer özellikler ile karşılaştırılması, 2022 - Continues

Şahin Ö., Karamangil M. İ., Hacısmailoğlu M. C., Kalkan Y., Project Supported by Higher Education Institutions, Yeni Nesil Gazlı Detektörlerin Araştırma ve Geliştirme Çalışmaları 2, 2014 - 2018

Hacısmailoğlu M. C., Altınöçek N., Özer M., Ahmetoğlu M., Tavashlı M., Karamangil M. İ., Project Supported by Higher Education Institutions, ORGANİK IŞIK YAYAN DİYOT OLED VE ORGANİK GÜNEŞ PİLLERİ ÜRETİMİ VE KARAKTERİZASYONU, 2015 - 2017

HACİSMAİLOĞLU M. C., UYLAŞER V., İZLİ N., Project Supported by Higher Education Institutions, Farklı kurutma yöntemlerinin çeşitli meyvelerin kurutma karakteristikleri ve kalite parametreleri üzerine etkilerinin belirlenmesi, 2014 - 2017

HACİSMAİLOĞLU M. C., Project Supported by Higher Education Institutions, Polipirol ve Co İçeren Kompozit Filmlerin Elektrokimyasal Yöntemle Sentezlenmesi ve Özelliklerinin Araştırılması, 2015 - 2016

HACİSMAİLOĞLU M. C., PEKSÖZ A., AKAY S. K., KÜÇÜK İ., Project Supported by Higher Education Institutions, Güneş pili uygulamaları için CuInSe<sub>2</sub> ve Cu InGa Se<sub>2</sub> ince filmlerin üretilmesi ve karakterizasyonu, 2013 - 2016

## Scientific Research / Working Group Memberships

Otomotiv Çalışma Grubu, Bursa Uludağ University, Türkiye, <https://avesis.uludag.edu.tr/arastirma-grubu/ocg>, 2020 - Continues

## Metrics

Publication: 38

Citation (WoS): 37

Citation (Scopus): 42

H-Index (WoS): 4

H-Index (Scopus): 4