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Personal Information

Place and date of birth: Göle, Türkiye /1980

Languages : Native Turkish, English (C1)

Education Degrees

Ph.D. Atom and Molecular Physics, 2008-2012

Karadeniz Technical University, Trabzon, Türkiye

Supervisor: Prof. Dr. Engin Tıraşoğlu

-Fluorescence parameters of some elements and their compounds and structural analysis of Superconducting $Fe_ySe_{1-x}Te_x$ thin films

M.Sc. Physics Education 2003-2005

Graduate School of Natural and Applied Sciences

19 Mayıs University, Samsun, Türkiye

B.Sc. Physics, 1999- 2003

Karadeniz Technical University, Faculty of Sciences, Department of Physics, Trabzon, Türkiye

Success and Awards

- Aksoy C, "The best oral presentations award, ISC 2025 International Symposium on Characterisation, July 2025, Cappadocia, Türkiye
- Tübitak 2219- Postdoctoral Research Scholarship, TÜBİTAK, Oxford University, Department of Materials, September 2014- September 2015
- Aksoy C, "The best poster presentation award, IYTE National Superconductivity Symposium, July 2011
- Erasmus Student Internship, Oxford University, ERASMUS, 2010 -2011. 9 months

Academic Experiences

- Associate Professor, Department of Electronics and Communication Engineering, Karadeniz Technical University December 2022- still working
- Assistant Professor, Department of Electronics and Communication Engineering, Karadeniz Technical University December 2015- 2022
- Postdoctoral Researcher, Department of Materials, University of Oxford ,UK September 2014-September 2015 (Tubitak Post-doctoral Fellowship, 12 months)
-Production and characterization of superconducting joints for superconducting magnet applications, Supervisors: Prof Chris Grovenor, Prof Susannah Speller
- Assistant Professor, Avrasya University Department of Electrics and Electronics, Trabzon, TURKEY (2013- 2015)
- Researcher (Academic visitor) at University of Oxford, Department of Materials, UK (Erasmus Placement Programme, 9 months) (2010-2011), -Fabrication and Characterisation of superconducting FeSeTe thin films. Supervisors: Prof Chris Grovenor, Prof Susannah Speller
- Physics Teacher at private high school (2004-2009)

Dissertations

Doctorate, Fluorescence Parameters of Some Elements and Compounds and Structural Analysis of FeSe_{1-x}Te_x Superconducting Thin Films, Karadeniz Technical University, Institute of Science, Physics-Atomic and Molecular Physics, 2012

Professional Experience

- Head of Department, Karadeniz Technical University, Fakülte, Electronics and Communications Engineering 2023 - Continues
- Deputy Director of the Karadeniz Technical University, Career Development Application and Research Center

Courses

- Physics 1, Undergraduate
- Basic Physics II, Undergraduate,
- Basic Material Knowledge, Undergraduate,
- Basic Physics I, Undergraduate,
- Electromagnetic Fields, Undergraduate,
- Electromagnetic Waves Undergraduate,

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **Effects of Composition and Processing on the Properties of Sn-3Zn-4Bi and Sn-Ag-Cu Solder Alloys for Electronic Packaging**
Soosai T., Noor E. E. M. N., Baig M. F., AKSOY C.
International Journal on Robotics, Automation and Sciences, cilt.7, 2025 (Hakemli Dergi)
2. **Magnetic and levitation properties of YBCO/polymer composite drop-casting films**
Lucas B., Brito M., AKSOY C., Cakir B., Coşkun E., GENÇER A., Pronto A., Ferreira I.
Next Materials, cilt.8, 2025 (Scopus)
3. **Gemiler İçin Nesnelerin İnternetine Dayalı Anlık Sıvı Seviyesi İzleme ve Kontrolü**
SESLİ E., Gündoğdu E. G., Yaman E., AKSOY C.
Karadeniz Fen Bilimleri Dergisi, cilt.15, sa.3, ss.1281-1305, 2025 (TRDizin)
4. **Evaluation of K-Shell Fluorescence Parameters of Lead-Free Superconducting Alloys**
GÜDÜMEN H., AKSOY C., TIRAŞOĞLU E.
Karadeniz Fen Bilimleri Dergisi, cilt.14, sa.4, ss.1917-1928, 2024 (TRDizin)
5. **Monitoring and controlling energy with a smart electricity meter.**

NANE M., GÖK H., AKYAZI Ö., AKSOY C.

Gümüşhane Üniversitesi Fen Bilimleri Dergisi, cilt.13, sa.4, ss.949-961, 2023 (Scopus, TRDizin)

6. **Optimized superconducting MgB₂ joint made by IMD technique**

Avcı D., Yetiş H., Gajda D., Babij M., Tran L. M., Karaboğa F., Aksoy C., Zaleski A., Belenli İ.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, cilt.36, sa.7, 2023 (SCI-Expanded, Scopus)

7. **The effect of nano-Pt/nano-SiC co-additions on superconducting properties of bulk MgB₂**

Koparan E. T., GÜNER S. B., AKSOY C., SAVAŞKAN B.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.34, sa.18, 2023 (SCI-Expanded, Scopus)

8. **Demonstration of better superconducting performance in a solder with low lead content**

Aksoy C., Cakir B., Koparan E. T., Simsek C., Tıraşoğlu E., Speller S., Grovenor C. R. M., Küçükömeroğlu T., Yanmaz E.

SUPERCONDUCTOR SCIENCE & TECHNOLOGY, cilt.36, sa.1, 2023 (SCI-Expanded, Scopus)

9. **Transport and structural properties of MgB₂/Fe wires produced by redesigning internal Mg diffusion process**

Yetiş H., Avcı D., Karaboga F., AKSOY C., Gajda D., Martinez E., Tanyildizi F. M., Zaleski A., Babij M., Tran L. M., et al.

SUPERCONDUCTOR SCIENCE & TECHNOLOGY, cilt.35, sa.4, 2022 (SCI-Expanded, Scopus)

10. **The Shielding Parameters of the Superconducting Tin Based Solders**

Aksoy C.

El-Cezeri Journal of Science and Engineering, cilt.8, sa.3, ss.1529-1535, 2021 (Scopus, TRDizin)

11. **The X-Ray fluorescence parameters and radiation shielding efficiency of silver doped superconducting alloys** AKSOY C. RADIATION PHYSICS AND CHEMISTRY, cilt.186, 2021 (SCI-Expanded, Scopus)

Book

Electrical Properties of Soldered HTS Tape Joints for Fault Current Limiters Aksoy C. in: High-Temperature Superconductivity for Accelerating The Energy Transition Outputs and Contributions from the H¹-SCALE COST Action, João Murta-Pina, Anabela Pronto, Editor, Vada Escrevi, Lisbon, pp.37-44, 2024

Funded Projects

- Aksoy C., Tıraşoğlu E., Taylan Koparan E., Çakir B., Küçükömeroğlu T., Yetiş H., Belenli İ. İpek H., Akyazi Ö. Improvement of the Suitability of Splicing Properties of Second-Generation Superconducting Tapes for Superconducting Applications 2025-Ongoing, International TUBİTAK-COST_2515
- Kasar Ö., Çil A., Aksoy C., Tuğcu E., Kobyra M. E., Akincioğlu U., Ulutaş E., Sağır N., Sesli E., Yükseköğretim Kurumları Destekli Proje, BAP Alt Yapı, Satellite Communications And Amateur Radio Communications Research, Development And Training Station Project (ISTASYOF), 2025 - Devam Ediyor
- Aksoy C., Savaşkan B., Şimşek C., Tıraşoğlu E., Taylan Koparan E., Çakir B., Küçükömeroğlu T., Güner B., Yeşilbağ Ö., Yükseköğretim Kurumları Destekli Proje, BAP Araştırma Projesi, Fabrication and Characterization of Solder Joints for Superconducting Magnets Operating in Continuous Current Mode. 2020 - 2022

Memberships

- ESAS The European Society for Applied Superconductivity, Member, 2015 –

Tasks in Scientific Organizations

- Aksoy C, Berger K., EUCAS2025 Short Courses, Workshop Organization, Porto, Portugal, September 2025
- Aksoy C, SSEC2024-Spring and Education Schools, Workshop Organization, Turkey, April 2024
- Aksoy C., Berger K EUCAS2023-Short Courses, Workshop Organization, Italy, September 2023
- Aksoy C., COST19108 2.HiScale Training School, Workshop Organization, Muğla, Turkey, May 2023