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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri (Dr), Turkey 1997 - 2007

Postgraduate, Istanbul Technical University, Nükleer Enerji Enstitüsü, Turkey 1993 - 1996

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1989 - 1993

Foreign Languages

English

Dissertations

Doctorate, Gaz Transportunda Kuantum Ölçek Etkileri , İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Bilimi Ve Teknolojileri (Dr), 2007

Postgraduate, Sıkıştırılmış Sıvı Kaynaması, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1996

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Enerji Enstitüsü, Yenilenebilir Enerji Anabilim Dalı, 2015 - Continues

Assistant Professor, Istanbul Technical University, Enerji Enstitüsü, Yenilenebilir Enerji Anabilim Dalı, 2010 - 2015

Research Assistant, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar Anabilim Dalı, 2003 - 2010

Research Assistant, Istanbul Technical University, Nükleer Enerji Enstitüsü, 1996 - 2003

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Enerji Enstitüsü, 2010 - Continues

İstanbul Teknik Üniversitesi, Enerji Enstitüsü, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Collective behavior of boreholes and its optimization to maximize BTES performance**
Ekmekeçi E., Öztürk Z. F., Sisman A.
Applied Energy, vol.343, 2023 (SCI-Expanded)
- II. **Effect of layered geological structures on borehole heat transfer**
Karabetoğlu S., Öztürk Z. F., Kaslılar A., Juhlin C., Sisman A.
GEOTHERMICS, vol.91, 2021 (SCI-Expanded)
- III. **An analytical solution for quantum size effects on Seebeck coefficient**
Karabetoğlu S., SİSMAN A., Öztürk Z. F.
PHYSICA SCRIPTA, vol.91, no.3, 2016 (SCI-Expanded)
- IV. **Characterization of a thermoelectric generator at low temperatures**
Karabetoğlu S., Sisman A., Öztürk Z. F., SAHİN T.
ENERGY CONVERSION AND MANAGEMENT, vol.62, pp.47-50, 2012 (SCI-Expanded)
- V. **Field enhancement at metallic interfaces due to quantum confinement**
Ozturk Z. F., Xiao S., Yan M., Wubs M., JAUHO A., Mortensen N. A.
JOURNAL OF NANOPHOTONICS, vol.5, 2011 (SCI-Expanded)
- VI. **Effects of particle-wall interactions on the thermodynamic behavior of gases at the nano scale**
Fırat C., Sisman A., Öztürk Z.
International Journal of Thermodynamics, vol.14, no.4, pp.155-161, 2011 (SCI-Expanded)
- VII. **Thermodynamics of gases in nano cavities**
Fırat C., Sisman A., Öztürk Z. F.
ENERGY, vol.35, no.2, pp.814-819, 2010 (SCI-Expanded)
- VIII. **Quantum size effects on the thermal and potential conductivities of ideal gases**
Öztürk Z. F., SİSMAN A.
PHYSICA SCRIPTA, vol.80, no.6, 2009 (SCI-Expanded)
- IX. **Quantum boundary layer: a non-uniform density distribution of an ideal gas in thermodynamic equilibrium**
Sisman A., OZTURK Z. F., FIRAT C.
PHYSICS LETTERS A, vol.362, no.1, pp.16-20, 2007 (SCI-Expanded)
- X. **Using caesium-137 measurements to investigate soil erosion rates in western Istanbul (NW Turkey)**
Hacıyakupoglu S., ERTEK T., WALLING D., OZTURK Z. F., KARAHAN G., ERGINAL A., CELEBI N.
CATENA, vol.64, pp.222-231, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Gas Diffusion at the Nano Scale**
ÖZTÜRK Z. F., ŞİŞMAN H. O. A., FIRAT C.
International Journal of Thermodynamics, vol.14, no.4, pp.163-166, 2011 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Plasmonic nanostructures: local versus nonlocal response**
Toscano G., Wubs M., Xiao S., Yan M., Ozturk Z. F., Jauho A., Mortensen N. A.
Conference on Plasmonics: Metallic Nanostructures and Their Optical Properties VIII, California, United States Of America, 1 - 05 August 2010, vol.7757

Supported Projects

Öztürk Z. F., Project Supported by Higher Education Institutions, kUANTUM tUTUKLANMANIN Seeback Katsayısına

Etkileri, 2013 - 2018

Öztürk Z. F., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İTÜ Triga MARK Nükleer Reaktörü Modernizasyonu, 2016 - 2016

Öztürk Z. F., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İTÜ TRİGA MARK II Nükleer Reaktörü Modernizasyonun, 2015 - 2015

Metrics

Publication: 23

Citation (WoS): 185

Citation (Scopus): 210

H-Index (WoS): 7

H-Index (Scopus): 7

Non Academic Experience

Danimarka Teknik Üniversitesi, Fotonik Enstitüsü