

Advancing Researches

- AHISKA R., A data acquisition and test system for investigation of electrical, thermoelectric and heat parameters of thermoelectric generator, Doctorate, H.MAMUR(Student), 2013
- AHISKA R., Optimization of thermoelectric modules with the method of genetic algorithms, Doctorate, M.SALİMİ(Student), 2010
- AHISKA R., Bulanık mantık denetimli termoelektrik beyin soğutucusu, Doctorate, A.HAKAN(Student), 2009
- AHISKA R., Computer controlled thermoelectric performance analysis system, Doctorate, S.DİŞLİTAŞ(Student), 2009
- AHISKA R., Mikrodenetleyicili sıcaklık ve hız kontrollü termoelektrik yarıiletken üretim sistemi, Post Graduate, E.ÖKTEN(Student), 2007
- AHISKA R., Mikrodenetleyici kontrollü termohipoterm tıp cihazı tasarımı ve gerçekleştirilmesi, Doctorate, M.KAPIDERE(Student), 2005
- AHISKA R., Mikrodenetleyici kontrollü jeotermal termoelektrik jeneratör tasarımı ve uygulaması, Post Graduate, S.DİŞLİTAŞ(Student), 2002
- AHISKA R., Termoelektrik sistemleri analiz programı, Post Graduate, M.SALİMİ(Student), 2001
- AHISKA R., Veri tabanı arayüzü tasarımı ve veri erişim metodlarının incelenmesi ve uygulanması, Post Graduate, H.YAŞAR(Student), 2000

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

- I. **Smart thermoelectric waste heat generator: Design, simulation and cost analysis**
Omer G., YAVUZ A. H. , AHISKA R., Calisal K. E.
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.37, 2020 (Journal Indexed in SCI)
- II. **Heat pipes thermoelectric solar collectors for energy applications**
Omer G., YAVUZ A. H. , AHISKA R.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.12, pp.8310-8313, 2017 (Journal Indexed in SCI)
- III. **Phase Content and Thermoelectric Properties of Optimized Thermoelectric Structures Based on the Ag-Pb-Sb-Te System**
Horichok I., AHISKA R., Freik D., Nykyruy L., Mudry S., Matkivskiy O., Semko T.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.3, pp.1576-1583, 2016 (Journal Indexed in SCI)
- IV. **Development and application of a new power analysis system for testing of geothermal thermoelectric generators**
AHISKA R., MAMUR H.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.13, no.7, pp.672-681, 2016 (Journal Indexed in SCI)
- V. **Determination of the parameters I-max, V-max and E-max of thermoelectric module using parabola algorithm based on three discrete measurements**
DİŞLİTAŞ S., AHISKA R.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.4, pp.1063-1072, 2016 (Journal Indexed in SCI)
- VI. **Application of a DC-DC boost converter with maximum power point tracking for low power thermoelectric generators**
MAMUR H., AHISKA R.
ENERGY CONVERSION AND MANAGEMENT, vol.97, pp.265-272, 2015 (Journal Indexed in SCI)
- VII. **Design and implementation of a new portable thermoelectric generator for low geothermal temperatures**
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IET RENEWABLE POWER GENERATION, vol.7, no.6, pp.700-706, 2013 (Journal Indexed in SCI)
- VIII. **A test system and supervisory control and data acquisition application with programmable logic controller for thermoelectric generators**
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- IX. **MODELLING AND EXPERIMENTAL STUDY OF TERMoeLECTRIC MODULE AS GENERATOR**

AHISKA R., MAMUR H., ULIŞ M.

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- X. **A survey on application of quantitative methods on analysis of brain parameters changing with temperature**

DEMİRHAN A., Kaymaz M., AHISKA R., GÜLER İ.

Journal of Medical Systems, vol.34, no.6, pp.1059-1071, 2010 (Journal Indexed in SCI Expanded)

- XI. **THE INFLUENCE OF THE DIFFERENT TEMPERATURE CONTROL SYSTEMS ON THE THERMOELECTRIC MEDICINE KIT'S PERFORMANCE**

AHISKA R., Fidan U., DİŞLİTAŞ S.

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- XII. **A new microcontroller-based human brain hypothermia system**

Kapidere M., AHISKA R., GÜLER İ.

Journal of Medical Systems, vol.29, no.5, pp.501-512, 2005 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **The design of multi-functional probe for determining the P-N electrical conductivity type of thermoelectric semiconductors**

DİŞLİTAŞ S., Yanmaz H., Omer G., AHISKA R.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.25, no.2, pp.151-156, 2019 (Journal Indexed in ESCI)

- II. **THE THERMOELECTRIC SOLAR PANELS**

AHISKA R.

Journal of Vasył Stefanyk Precarpathian National University, vol.3, no.1, pp.9-14, 2016 (Refereed Journals of Other Institutions)

- III. **Standart termoelektrik modülün Z parametresinin ölçülmesi için yeni yöntem ve yeni sistem**

AHISKA R., CİYLAN B., SAVAŞ Y., GÜLER İ.

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.19, no.4, pp.467-473, 2004 (Refereed Journals of Other Institutions)

- IV. **Termoelektrik soğutucunun özelliklerinin araştırılması**

AHISKA R., GÜLER İ., SAVAŞ Y.

Politeknik Dergisi, vol.2, no.3, pp.89-94, 1999 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **DESIGN OF THERMOELECTRIC SOLAR GENERATOR FOR PUMP**

AHISKA R., YAVUZ A. H.

5-th World Congress and Expo on Green Energy, Londrina, Brazil, 14 - 16 June 2018

- II. **Load and No Load Tests of the Thermoelectric Brain Cooler Designed for Brain Hypothermia**

YAVUZ A. H. , AHISKA R.

Proc. of The Fifth Intl. Conf. On Advances in Applied Science and Environmental Technology - ASET 2016, Bangkok, Thailand, 24 - 25 September 2016, vol.1

- III. **Composite Thermoelectric Materials on the Base of PbTe with Ag and ZnO Nano inclusions**

Nykyruy L., Freik D., AHISKA R., Matkivskiy O., Lishchynskiy I., Hryhoruk I.

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- IV. **Growth Processes Structure and Thermoelectric Properties in SnTe Based Vapor Phase Nanocondensates**

AHISKA R., Freik D., Lishchynskyy I., Chavjak I.

34th Annual International Conference on Thermoelectrics (ICT 2015) and 13th European Conference on Thermoelectrics (ECT 2015), 28 June - 02 July 2015

V. Comparison Of Thermoelectric And Fotovoltaic Solar Panels

AHISKA R., Nykyruy L., AHISKA F.

XVI International Forum on thermoelectricity, 18 - 22 May 2015

VI. Doping Semiconductors on the Base of IV VI for Thermoelectric International Conference of Physics and Technology of Thin Films and Nanosystems

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VII. The influence of the surface on the thermoelectric properties of SnTe Bi thin films Science and Applications of Thin Films

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VIII. Quantum size oscillations of thermoelectric characteristics in IV VI semiconductor nanostructures

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IX. Processes of Structure Formation and Thermoelectric Properties of the Semiconductor Systems Pb Sn Sb Bi Te

Freik D., Nykyruy L., AHISKA R., Mezhylovska L.

XII International Conference on Nanostructured Materials (NANO 2014), 13 - 18 July 2014

X. Thermoelectric Composites on the Base of PbTe with Nanoiclusions of Colloidal Ag

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XI. Pb Sb Bi Te Thin Film Condensates for Thermoelectric Application International Conference on Thermoelectrics

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XII. Thermoelectric Brain Cooler Helmet

AHISKA R., YAVUZ A. H.

6th International Advanced Technologies Symposium (IATS'11), Elazığ, Turkey, 16 - 18 May 2011, vol.1, pp.120-123

XIII. Termoelektrik modüller için mikrodnetleyici kontrollü test sistemi

CİYLAN B., SAVAŞ Y., AHISKA R.

III. Uluslararası İleri Teknolojiler Sempozyumu, 5 - 06 May 2003

Supported Projects

AHISKA R., Industrial Thesis Project, Bilgisayar Kontrollü Termoelektrik Jeneratörünün Üretimi ve Uygulaması, 2011 - Continues

AHISKA R., Project Supported by Higher Education Institutions, Termoelektrik Yarı iletkenin Sıcaklık ve Hız Kontrollü Elde Etme Sistemi, 2006 - Continues

AHISKA R., Project Supported by Higher Education Institutions, İki Fazlı Termoelektrik CPU Soğutucusu, 2005 - Continues

AHISKA R., Project Supported by Higher Education Institutions, Sıcaklık Kontrollü Termoelektrik Minibar, 2004 - Continues

AHISKA R., Project Supported by Higher Education Institutions, Bilgisayar Kontrollü Jeotermal Termoelektrik Jeneratör, 2003 - Continues

AHISKA R., Project Supported by Higher Education Institutions, Mikrodnetleyici Sıcak Kontrollü Rat Tekmohipoterm Sistemi, 2002 - Continues

AHISKA R., Project Supported by Higher Education Institutions, Termohipoterm termoelektrik tıp cihazı, 2001 - Continues

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Total Citations (WOS):126

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