# Doç.Dr. ERSİN KANTAR

## Kişisel Bilgiler

**E-posta:** ersin.kantar@bozok.edu.tr
**Diğer E-posta:** ersin.kantar@yobu.edu.tr
**Web:** https://avesis.bozok.edu.tr/ersin.kantar

**Uluslararası Araştırmacı ID'leri**
ORCID: 0000-0001-9302-1078
Publons / Web Of Science ResearcherID: L-8154-2019
ScopusID: 14831334100
Yoksis Araştırmacı ID: 182052

## Eğitim Bilgileri

Doktora, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 2008 - 2015
Yüksek Lisans, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Türkiye 2005 - 2008
Lisans, Erciyes Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Pr., Türkiye 2000 - 2005

## Yaptığı Tezler

Doktora, Önemli türk şirket ve sektörlerinin ihracat ve ithalat dâhil hiyerarşik yapı yöntemleriyle topolojik analizi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2015
Yüksek Lisans, Zamana bağlı salınımlı dış manyetik alan altında kinetik izotropik spin-1 ısing blume-emery-griffiths (BEG) sistemleri, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 2008

## Araştırma Alanları

Fizik, Genel Fizik, İstatistik fizik, termodinamik ve nonlineer dinamik sistemler, Temel Bilimler

## Akademik Unvanlar / Görevler

Doç.Dr., Yozgat Bozok Üniversitesi, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2020 - Devam Ediyor
Araştırma Görevlisi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010 - 2014

## Akademik İdari Deneyim

MYO Müdürü, Yozgat Bozok Üniversitesi, 2019 - 2021
Yozgat Bozok Üniversitesi, 2018 - 2019

## Verdiği Dersler

Görme Optiği, Ön Lisans, 2023 - 2024

Ticari Matematik, Ön Lisans, 2023 - 2024
OPT 201-Optisyenlik-III, Ön Lisans, 2018 - 2019
OPT 105-Optisyenlik-I, Ön Lisans, 2018 - 2019, 2017 - 2018
OPT 207 Görme Optiği ve Refraksiyon-I, Ön Lisans, 2018 - 2019
OPTS 105-Temel Bilgisayar Bilgisi, Ön Lisans, 2017 - 2018
BİLGP 256 Mesleki İngilizce, Ön Lisans, 2017 - 2018
OPT 106-Optisyenlik-II, Ön Lisans, 2017 - 2018
OPTS 102 Ofis Programları, Ön Lisans, 2017 - 2018

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Investigating the magnetic and hysteretic properties of graphyne-based nanostructures: a comparative study of shape effects on critical temperatures, coercivity, and remanence**
KANTAR E.
Physica Scripta, cilt.99, sa.3, 2024 (SCI-Expanded)

II. **Dynamic study of a ternary trilayer Ising system with crystal field interaction**
KANTAR E., ERTAŞ M.
European Physical Journal Plus, cilt.138, sa.6, 2023 (SCI-Expanded)

III. **Triangular Ising nanowire system with core/shell structured**
KANTAR E., ERTAŞ M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.137, sa.10, 2022 (SCI-Expanded)

IV. **The hysteretic features of ternary spins (1/2, 1, 3/2) idealized Ising nanoparticles on the core–multishell structure**
KANTAR E., ERTAŞ M.
European Physical Journal Plus, cilt.137, sa.5, 2022 (SCI-Expanded)

V. **Hierarchical structure of countries based on carbon dioxide emission over the periods of 1971-2012; the relationships economic growth and energy consumption**
KANTAR E., DEVİREN B., ASLAN A.
CHINESE JOURNAL OF PHYSICS, cilt.60, ss.12-21, 2019 (SCI-Expanded)

VI. **Effective field study of the magnetism and superconductivity in idealised Ising-type X@Y-60 endohedral fullerene system**
KANTAR E.
PHILOSOPHICAL MAGAZINE, cilt.99, sa.13, ss.1669-1693, 2019 (SCI-Expanded)

VII. **An investigation of competition on the dynamic magnetic properties of the core/shell nanowire**
TEMİZER Ü., KANTAR E.
CHINESE JOURNAL OF PHYSICS, cilt.57, ss.269-281, 2019 (SCI-Expanded)

VIII. **The Magnetic Properties of the Spin-1 Ising Fullerene Cage with a Core-Shell Structure**
KANTAR E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.32, sa.2, ss.425-430, 2019 (SCI-Expanded)

IX. **Ising-Type Single-Segment Ferromagnetic Nanowire with Core/Shell: the Dependences of the Angle, Temperature, and Geometry**
KANTAR E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.31, sa.2, ss.341-346, 2018 (SCI-Expanded)

X. **Dynamic hysteresis behaviors in the kinetic Ising system on triangular lattice**
KANTAR E., ERTAŞ M.
PHASE TRANSITIONS, cilt.91, sa.4, ss.370-381, 2018 (SCI-Expanded)

XI. **Dynamic calculations of the core/shell structured Ising-type endohedral fullerenes: The effect of core and core/shell interaction**
KANTAR E.
MODERN PHYSICS LETTERS B, cilt.31, sa.33, 2017 (SCI-Expanded)

XII. **Dynamic magnetic behaviors in the Ising-type nanowire with core-shell single-ion anisotropies under a time-dependent oscillating external magnetic field**
Kantar E.
CHINESE JOURNAL OF PHYSICS, cilt.55, sa.5, ss.1808-1820, 2017 (SCI-Expanded)

XIII. **Superconductivity-like phenomena in an ferrimagnetic endohedral fullerene with diluted magnetic surface**
KANTAR E.
SOLID STATE COMMUNICATIONS, cilt.263, ss.31-37, 2017 (SCI-Expanded)

XIV. **The thermal behaviors and phase diagrams of the Ising-type endohedral fullerene with magnetic core and diluted magnetic shell (Core@Shell(20))**
KANTAR E.
EUROPEAN PHYSICAL JOURNAL B, cilt.90, sa.8, 2017 (SCI-Expanded)

XV. **Influence of the Shape on Magnetic Properties of Ising Nanostructures**
KESKİN M., Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.7, ss.1849-1857, 2017 (SCI-Expanded)

XVI. **Triangular Ising Ferromagnet with Mixed Spins (A=1/2, B=1/2, C=1): Dynamic Magnetic Properties and Hysteresis Curves**
Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.5, ss.1187-1194, 2017 (SCI-Expanded)

XVII. **Composition, temperature and geometric dependent hysteresis behaviours in Ising-type segmented nanowire with magnetic and diluted magnetic, and its soft/hard magnetic characteristics**
Kantar E.
PHILOSOPHICAL MAGAZINE, cilt.97, sa.6, ss.431-450, 2017 (SCI-Expanded)

XVIII. **Angular-Dependent Hysteresis Properties in the Ising-Type Multilayer Nanowire**
Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.1, ss.227-236, 2017 (SCI-Expanded)

XIX. **The effects of the composition, temperature and geometry on the hysteretic properties of the Ising-type barcode nanowire**
Kantar E.
EUROPEAN PHYSICAL JOURNAL B, cilt.89, sa.12, 2016 (SCI-Expanded)

XX. **Dynamic phase transitions and the effects of frequency of oscillating magnetic field on the dynamic phase diagrams in the bilayer honeycomb lattice with AB stacking geometry**
Kantar E.
PHASE TRANSITIONS, cilt.89, sa.10, ss.971-985, 2016 (SCI-Expanded)

XXI. **Geometry-Dependent Magnetic Properties of Ising-Type Multisegment Nanowires**
Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.10, ss.2699-2704, 2016 (SCI-Expanded)

XXII. **Dynamic Magnetic Properties of the Spin-3/2 Ising Model on a Cylindrical Nanowire in an Oscillating Magnetic Field**
Kantar E., KESKİN M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.9, ss.2387-2394, 2016 (SCI-Expanded)

XXIII. **Frequency-Dependent Dynamic Phase Diagrams in Ising System with Fe4N Structure**
Kantar E., ERTAŞ M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.9, ss.2319-2326, 2016 (SCI-Expanded)

XXIV. **Bilayer Ising system designed with half-integer spins: Magnetic hysteresis, compensation behaviors and phase diagrams**
Kantar E.
MODERN PHYSICS LETTERS B, cilt.30, sa.23, 2016 (SCI-Expanded)

XXV. **Hysteretic features of Ising-type segmented nanostructure with alternating magnetic wires**
Kantar E.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.676, ss.337-346, 2016 (SCI-Expanded)

XXVI. **The Phase Diagrams and Reentrant Phenomena in a Cylindrical Transverse Ising Nanowire with the Presence of Crystal Field**
Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.7, ss.1903-1908, 2016 (SCI-Expanded)

XXVII. **Hierarchical structure of the countries based on electricity consumption and economic growth**
Kantar E., Asian A., Deviren B., KESKİN M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.454, ss.1-10, 2016 (SCI-Expanded)

XXVIII. **Kinetic Transverse Ising Nanowire System in the Presence of a Time-Varying Magnetic Field**
Kantar E., ERTAŞ M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.3, ss.781-788, 2016 (SCI-Expanded)

XXIX. **Dynamic magnetic properties in the kinetic Ising ferromagnet on triangular lattice within the effective-field theory and using Glauber-type stochastic dynamics**
ERTAŞ M., Kantar E., Kocakaplan Y., KESKİN M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.444, ss.732-743, 2016 (SCI-Expanded)

XXX. **Hexagonal type Ising nanowire with mixed spins: Some dynamic behaviors**
Kantar E., Kocakaplan Y.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.393, ss.574-583, 2015 (SCI-Expanded)

XXXI. **The Dynamic Hysteresis Curves and Compensation Types of Kinetic Bilayer Honeycomb Lattice System with AB Stacking Geometry**
Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.11, ss.3387-3395, 2015 (SCI-Expanded)

XXXII. **Magnetic hysteresis, compensation behaviors, and phase diagrams of bilayer honeycomb lattices**
Kantar E.
CHINESE PHYSICS B, cilt.24, sa.10, 2015 (SCI-Expanded)

XXXIII. **The Kinetic Spin-1 Ising System on Triangular Lattice: the Effects of Crystal Field and Frequency of Oscillating External Magnetic Field**
ERTAŞ M., Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.10, ss.3037-3044, 2015 (SCI-Expanded)

XXXIV. **Hexagonal Type Ising Nanowire with Spin-1 Core and Spin-2 Shell Structure**
ERTAŞ M., Kantar E.
COMMUNICATIONS IN THEORETICAL PHYSICS, cilt.64, sa.4, ss.401-408, 2015 (SCI-Expanded)

XXXV. **Hexagonal-Type Ising Nanowire with Core/Shell Structure Designed with Half-Integer Spins: Compensation Behaviors and Phase Diagrams in the Temperature and Interaction Planes**
Kantar E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.9, ss.2865-2873, 2015 (SCI-Expanded)

XXXVI. **Thermodynamic quantities and phase diagrams of spin-1 Blume-Capel bilayer Ising model**
Kantar E., ERTAŞ M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.29, sa.20, 2015 (SCI-Expanded)

XXXVII. **Influence of Frequency on the Kinetic Spin-3/2 Cylindrical Ising Nanowire System in an Oscillating Field**
Kantar E., Ertas M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.8, ss.2529-2538, 2015 (SCI-Expanded)

XXXVIII. **Magnetic properties of a spin-1 triangular Ising system**
ERTAŞ M., Kocakaplan Y., Kantar E.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.386, ss.1-7, 2015 (SCI-Expanded)

XXXIX. **Cylindrical Ising nanowire with crystal field: existence of a dynamic compensation temperatures**
ERTAŞ M., Kantar E.
PHASE TRANSITIONS, cilt.88, sa.6, ss.567-581, 2015 (SCI-Expanded)

XL. **Cylindrical Ising nanowire in an oscillating magnetic field and dynamic compensation temperature**
Kantar E., ERTAŞ M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.75, ss.831-842, 2014 (SCI-Expanded)

XLI. **Hierarchical structure of the European countries based on debts as a percentage of GDP during the 2000-2011 period**
Kantar E., Deviren B., KESKİN M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.414, ss.95-107, 2014 (SCI-Expanded)

XLII. **Dynamic phase diagrams of a cylindrical Ising nanowire in the presence of a time dependent magnetic field**
Kantar E., ERTAŞ M., KESKİN M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.361, ss.61-67, 2014 (SCI-Expanded)

XLIII. **Magnetic hysteresis and compensation behaviors in spin-1 bilayer Ising model**
Kantar E., ERTAŞ M.
SOLID STATE COMMUNICATIONS, cilt.188, ss.71-76, 2014 (SCI-Expanded)

XLIV. **Thermodynamic and magnetic properties of the hexagonal type Ising nanowire**
Kocakaplan Y., Kantar E.
EUROPEAN PHYSICAL JOURNAL B, cilt.87, sa.6, 2014 (SCI-Expanded)

XLV. **Dynamic behaviors of spin-1/2 bilayer system within Glauber-type stochastic dynamics based on the effective-field theory**
ERTAŞ M., Kantar E., KESKİN M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.358, ss.56-64, 2014 (SCI-Expanded)

XLVI. **An effective-field theory study of hexagonal Ising nanowire: Thermal and magnetic properties**
Kocakaplan Y., Kantar E.
CHINESE PHYSICS B, cilt.23, sa.4, 2014 (SCI-Expanded)

XLVII. **Hexagonal type Ising nanowire with core/shell structure: The phase diagrams and compensation behaviors**
Kantar E., Kocakaplan Y.
SOLID STATE COMMUNICATIONS, cilt.177, ss.1-6, 2014 (SCI-Expanded)

XLVIII. **Thermal and magnetic properties of ternary mixed Ising nanoparticles with core-shell structure: Effective-field theory approach**
Kantar E., KESKİN M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.349, ss.165-172, 2014 (SCI-Expanded)

XLIX. **The relationships between electricity consumption and GDP in Asian countries, using hierarchical structure methods**
Kantar E., KESKİN M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.392, sa.22, ss.5678-5684, 2013 (SCI-Expanded)

L. **Hysteresis loops and compensation behavior of cylindrical transverse spin-1 Ising nanowire with the crystal field within effective-field theory based on a probability distribution technique**
Kocakaplan Y., Kantar E., KESKİN M.
EUROPEAN PHYSICAL JOURNAL B, cilt.86, sa.10, 2013 (SCI-Expanded)

LI. **Magnetic properties of mixed Ising nanoparticles with core-shell structure**
Kantar E., Deviren B., KESKİN M.
EUROPEAN PHYSICAL JOURNAL B, cilt.86, sa.6, 2013 (SCI-Expanded)

LII. **Complexity of major UK companies between 2006 and 2010: Hierarchical structure method approach**
Ulusoy T., KESKİN M., Shirvani A., Deviren B., Kantar E., Doenmez C. C.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.391, sa.21, ss.5121-5131, 2012 (SCI-Expanded)

LIII. **Dynamic phase transitions in a cylindrical Ising nanowire under a time-dependent oscillating magnetic field**
Deviren B., Kantar E., KESKİN M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.324, sa.13, ss.2163-2170, 2012 (SCI-Expanded)

LIV. **Analysis of the effects of the global financial crisis on the Turkish economy, using hierarchical methods**
Kantar E., KESKİN M., Deviren B.

PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.391, sa.7, ss.2342-2352, 2012 (SCI-Expanded)

LV. **Investigation of major international and Turkish companies via hierarchical methods and bootstrap approach**
Kantar E., Deviren B., KESKİN M.
EUROPEAN PHYSICAL JOURNAL B, cilt.84, sa.2, ss.339-350, 2011 (SCI-Expanded)

LVI. **Hierarchical structure of Turkey's foreign trade**
Kantar E., Deviren B., KESKİN M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.390, sa.20, ss.3454-3476, 2011 (SCI-Expanded)

LVII. **Dynamic compensation temperatures in a mixed spin-1 and spin-3/2 Ising system under a time-dependent oscillating magnetic field**
KESKİN M., Kantar E.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.322, sa.18, ss.2789-2796, 2010 (SCI-Expanded)

LVIII. **Magnetic Properties of a Mixed Spin-3/2 and Spin-2 Ising Ferrimagnetic System within the Effective-field Theory**
Deviren B., Kantar E., KESKİN M.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, cilt.56, sa.6, ss.1738-1747, 2010 (SCI-Expanded)

LIX. **The Glauber dynamics for a spin-1 metamagnetic Ising system with bilinear and biquadratic interactions**
KESKİN M., Canko O., Kantar E.
PHYSICS LETTERS A, cilt.373, sa.26, ss.2201-2209, 2009 (SCI-Expanded)

LX. **Nonequilibrium phase transition in the kinetic Ising model on a two-layer square lattice under the presence of an oscillating field**
Canko O., Kantar E., KESKİN M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.388, sa.1, ss.28-40, 2009 (SCI-Expanded)

LXI. **Multicritical dynamical phase diagrams of the kinetic Blume-Emery-Griffiths model with repulsive biquadratic coupling in an oscillating field**
Temizer Ü., Kantar E., KESKİN M., Canko O.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.320, sa.11, ss.1787-1801, 2008 (SCI-Expanded)

LXII. **Kinetics of a mixed spin-1 and sPin-3/2 Ising system under a time-dependent oscillating magnetic field**
KESKİN M., Kantar E., Canko O.
PHYSICAL REVIEW E, cilt.77, sa.5, 2008 (SCI-Expanded)

LXIII. **Dynamic phase transition in the kinetic Blume-Emery-Griffiths model: Phase diagrams in the temperature and interaction parameters planes**
Keskin M., Temizer Ü., Canko O., Kantar E.
PHASE TRANSITIONS, cilt.80, sa.8, ss.855-866, 2007 (SCI-Expanded)

LXIV. **Dynamic dipole and quadrupole phase transitions in the kinetic spin-1 model**
Keskin M., Canko O., Kantar E.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.17, sa.9, ss.1239-1255, 2006 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

I. **Ising-tipi çok segmentli nanoyapıda kompozisyon ve sıcaklık bağımlılıkları**
KANTAR E.
Academic Platform Journal of Engineering and Science, cilt.6, ss.67-72, 2018 (Hakemli Dergi)

## Desteklenen Projeler

Kantar E., TÜBİTAK Projesi, Disiplinlerarası ekonofizik alanı kullanılarak Türkiye' de illere göre enerji tüketiminin

topolojik analizi, 2022 - 2024
Kantar E., Yükseköğretim Kurumları Destekli Proje, Çok Tabakalı KarmaSpin Ising Sisteminin Dinamik Manyetik Özellikleri, 2018 - 2020
KANTAR E., Yükseköğretim Kurumları Destekli Proje, Ising Tipi Çekirdek kabuk Nanoyapıda Dinamik Manyetik Özellikler: Kabuğun Doğası ve Yapı Parametrelerinin Etkisi, 2017 - 2019
KANTAR E., Yükseköğretim Kurumları Destekli Proje, Silindirik karma spin Ising nanotel sistemlerinin dinamik manyetik özellikleri, 2017 - 2018
TÜBİTAK Projesi, Enerji Tüketimi, Çevre Kirliliği ve Ekonomik büyüklük arasındaki karşılıklı ilişkilerin disiplinlerarası ekonofizik alanı kullanılarak topolojik analizi ve tarihsel davranışlarının belirlenmesi, 2015 - 2017
KANTAR E., Yükseköğretim Kurumları Destekli Proje, Önemli Türk şirket ve sektörlerinin ihracat ve ithalat dâhil hiyerarşik yapı yöntemleriyle topolojik analizi, 2010 - 2015
TÜBİTAK Projesi, Para birimleri Türkiye deki büyük şirketler dahil bazı uluslararası şirketler ve Türkiye deki büyük şirketler arasındaki korelasyon ağ örgüleri Türk Lirasındaki ani çıkış ve inişlerin analizi, 2010 - 2012
TÜBİTAK Projesi, Zamana bağlı salınımlı dış bir manyetik alan altında spin 1 ve spin 3 2 kinetik Ising sistemlerinin dinamik faz dönüşümleri, 2005 - 2007

## Metrikler

Yayın: 66
Atıf (WoS): 1407
Atıf (Scopus): 1421
H-İndeks (WoS): 24
H-İndeks (Scopus): 24