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International Researcher IDs

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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2008 - 2015

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2005 - 2008

Undergraduate, Erciyes University, Fen-Edebiyat Fakültesi, Fizik Pr., Turkey 2000 - 2005

Dissertations

Doctorate, Önemli türk şirket ve sektörlerinin ihracat ve ithalat dâhil hiyerarşik yapı yöntemleriyle topolojik analizi,

Erciyes University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2015

Postgraduate, Zamana bağlı salınımlı dış manyetik alan altında kinetik izotropik spin-1 ısing blume-emery-griffiths (BEG) sistemleri, Erciyes University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2008

Research Areas

Physics, General Physics, Statistical physics, thermodynamic and nonlinear dynamic systems, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2020 - Continues

Research Assistant, Erciyes University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010 - 2014

Academic and Administrative Experience

Director of Vocational School, Yozgat Bozok University, 2019 - 2021

Yozgat Bozok University, 2018 - 2019

Courses

Görme Optiği, Associate Degree, 2023 - 2024
Ticari Matematik, Associate Degree, 2023 - 2024
OPT 201-Optisyonluk-III, Associate Degree, 2018 - 2019
OPT 105-Optisyonluk-I, Associate Degree, 2018 - 2019, 2017 - 2018
OPT 207 Görme Optiği ve Refraksiyon-I, Associate Degree, 2018 - 2019
OPTS 105-Temel Bilgisayar Bilgisi, Associate Degree, 2017 - 2018
BİLGİP 256 Mesleki İngilizce, Associate Degree, 2017 - 2018
OPT 106-Optisyonluk-II, Associate Degree, 2017 - 2018
OPTS 102 Ofis Programları, Associate Degree, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.99, no.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, vol.138, no.6, 2023 (SCI-Expanded)
- III. **Triangular Ising nanowire system with core/shell structured**
KANTAR E., ERTAŞ M.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.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, vol.137, no.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, vol.60, pp.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, vol.99, no.13, pp.1669-1693, 2019 (SCI-Expanded)
- VII. **The Magnetic Properties of the Spin-1 Ising Fullerene Cage with a Core-Shell Structure**
KANTAR E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.2, pp.425-430, 2019 (SCI-Expanded)
- VIII. **An investigation of competition on the dynamic magnetic properties of the core/shell nanowire**
TEMİZER Ü., KANTAR E.
CHINESE JOURNAL OF PHYSICS, vol.57, pp.269-281, 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, vol.31, no.2, pp.341-346, 2018 (SCI-Expanded)
- X. **Dynamic hysteresis behaviors in the kinetic Ising system on triangular lattice**
KANTAR E., ERTAŞ M.
PHASE TRANSITIONS, vol.91, no.4, pp.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, vol.31, no.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, vol.55, no.5, pp.1808-1820, 2017 (SCI-Expanded)

- XIII. **Superconductivity-like phenomena in an ferrimagnetic endohedral fullerene with diluted magnetic surface**

KANTAR E.

SOLID STATE COMMUNICATIONS, vol.263, pp.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, vol.90, no.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, vol.30, no.7, pp.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, vol.30, no.5, pp.1187-1194, 2017 (SCI-Expanded)

- XVII. **Angular-Dependent Hysteresis Properties in the Ising-Type Multilayer Nanowire**

Kantar E.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.1, pp.227-236, 2017 (SCI-Expanded)

- XVIII. **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, vol.97, no.6, pp.431-450, 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, vol.89, no.12, 2016 (SCI-Expanded)

- XX. **Geometry-Dependent Magnetic Properties of Ising-Type Multisegment Nanowires**

Kantar E.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.10, pp.2699-2704, 2016 (SCI-Expanded)

- XXI. **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, vol.89, no.10, pp.971-985, 2016 (SCI-Expanded)

- XXII. **Frequency-Dependent Dynamic Phase Diagrams in Ising System with Fe₄N Structure**

Kantar E., ERTAŞ M.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.9, pp.2319-2326, 2016 (SCI-Expanded)

- XXIII. **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, vol.29, no.9, pp.2387-2394, 2016 (SCI-Expanded)

- XXIV. **Hysteretic features of Ising-type segmented nanostructure with alternating magnetic wires**

Kantar E.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.676, pp.337-346, 2016 (SCI-Expanded)

- XXV. **Bilayer Ising system designed with half-integer spins: Magnetic hysteresis, compensation behaviors and phase diagrams**

Kantar E.

MODERN PHYSICS LETTERS B, vol.30, no.23, 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, vol.29, no.7, pp.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, vol.454, pp.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, vol.29, no.3, pp.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, vol.444, pp.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, vol.393, pp.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, vol.28, no.11, pp.3387-3395, 2015 (SCI-Expanded)
- XXXII. **Magnetic hysteresis, compensation behaviors, and phase diagrams of bilayer honeycomb lattices**
Kantar E.
CHINESE PHYSICS B, vol.24, no.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, vol.28, no.10, pp.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, vol.64, no.4, pp.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, vol.28, no.9, pp.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, vol.29, no.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, vol.28, no.8, pp.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, vol.386, pp.1-7, 2015 (SCI-Expanded)
- XXXIX. **Cylindrical Ising nanowire with crystal field: existence of a dynamic compensation temperatures**
ERTAŞ M., Kantar E.
PHASE TRANSITIONS, vol.88, no.6, pp.567-581, 2015 (SCI-Expanded)
- XL. **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, vol.414, pp.95-107, 2014 (SCI-Expanded)

- XLII. **Cylindrical Ising nanowire in an oscillating magnetic field and dynamic compensation temperature**
Kantar E., ERTAŞ M.
SUPERLATTICES AND MICROSTRUCTURES, vol.75, pp.831-842, 2014 (SCI-Expanded)
- XLIII. **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, vol.361, pp.61-67, 2014 (SCI-Expanded)
- XLIV. **Thermodynamic and magnetic properties of the hexagonal type Ising nanowire**
Kocakaplan Y., Kantar E.
EUROPEAN PHYSICAL JOURNAL B, vol.87, no.6, 2014 (SCI-Expanded)
- XLV. **Magnetic hysteresis and compensation behaviors in spin-1 bilayer Ising model**
Kantar E., ERTAŞ M.
SOLID STATE COMMUNICATIONS, vol.188, pp.71-76, 2014 (SCI-Expanded)
- XLVI. **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, vol.358, pp.56-64, 2014 (SCI-Expanded)
- XLVII. **An effective-field theory study of hexagonal Ising nanowire: Thermal and magnetic properties**
Kocakaplan Y., Kantar E.
CHINESE PHYSICS B, vol.23, no.4, 2014 (SCI-Expanded)
- XLVIII. **Hexagonal type Ising nanowire with core/shell structure: The phase diagrams and compensation behaviors**
Kantar E., Kocakaplan Y.
SOLID STATE COMMUNICATIONS, vol.177, pp.1-6, 2014 (SCI-Expanded)
- XLIX. **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, vol.349, pp.165-172, 2014 (SCI-Expanded)
- L. **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, vol.392, no.22, pp.5678-5684, 2013 (SCI-Expanded)
- LI. **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, vol.86, no.10, 2013 (SCI-Expanded)
- LII. **Magnetic properties of mixed Ising nanoparticles with core-shell structure**
Kantar E., Deviren B., KESKİN M.
EUROPEAN PHYSICAL JOURNAL B, vol.86, no.6, 2013 (SCI-Expanded)
- LIII. **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, vol.391, no.21, pp.5121-5131, 2012 (SCI-Expanded)
- LIV. **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, vol.324, no.13, pp.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, vol.391, no.7, pp.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, vol.84, no.2, pp.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, vol.390, no.20, pp.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, vol.322, no.18, pp.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, vol.56, no.6, pp.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, vol.373, no.26, pp.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, vol.388, no.1, pp.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, vol.320, no.11, pp.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, vol.77, no.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, vol.80, no.8, pp.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, vol.17, no.9, pp.1239-1255, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Ising-tipi çok segmentli nanoyapıda kompozisyon ve sıcaklık bağımlılıkları**
KANTAR E.
Academic Platform Journal of Engineering and Science, vol.6, pp.67-72, 2018 (Peer-Reviewed Journal)

Supported Projects

Kantar E., TUBITAK Project, Disiplinlerarası ekonofizik alanı kullanılarak Türkiye’ de illere göre enerji tüketiminin topolojik analizi, 2022 - 2024

Kantar E., Project Supported by Higher Education Institutions, Çok Tabakalı KarmaSpin Ising Sisteminin Dinamik Manyetik Özellikleri, 2018 - 2020

KANTAR E., Project Supported by Higher Education Institutions, Ising Tipi Çekirdek kabuk Nanoyapıda Dinamik Manyetik Özellikler: Kabuğun Doğası ve Yapı Parametrelerinin Etkisi, 2017 - 2019

KANTAR E., Project Supported by Higher Education Institutions, Silindirik karma spin Ising nanotel sistemlerinin dinamik manyetik özellikleri, 2017 - 2018

TUBITAK Project, Enerji Tüketimi, Çevre Kirliliği ve Ekonomik büyüklük arasındaki karşılıklı ilişkilerin disiplinlerarası ekonofizik alanı kullanılarak topolojik analizi ve tarihsel davranışlarının belirlenmesi, 2015 - 2017

KANTAR E., Project Supported by Higher Education Institutions, Önemli Türk şirket ve sektörlerinin ihracat ve ithalat dâhil hiyerarşik yapı yöntemleriyle topolojik analizi, 2010 - 2015

TUBITAK Project, 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

TUBITAK Project, Zamana bağlı salınımlı dış bir manyetik alan altında spin 1 ve spin 3 2 kinetik Ising sistemlerinin dinamik faz dönüşümleri, 2005 - 2007

Metrics

Publication: 66

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