

## **Prof. MEHMET ERTAŞ**

### **Personal Information**

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### **International Researcher IDs**

ScholarID: E6D3rOoAAAAJ

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ScopusID: 23567877300

Yoksis Researcher ID: 18874

### **Education Information**

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2008 - 2012

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2006 - 2008

Undergraduate, Erciyes University, Fen Edebiyat Fakültesi, Fizik, Turkey 2002 - 2006

### **Foreign Languages**

English, B2 Upper Intermediate

### **Dissertations**

Doctorate, KARMA SPİN-2 VE SPİN-5/2 ISİNG SİSTEMİNİN DİNAMİĞİ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Genel Fizik, 2012

Postgraduate, KİNETİK KARMA SPİN- 1 VE SPİN- 2 SİSTEMİNDE MEYDANA GELEN DİNAMİK FAZ GEÇİŞLERİ VE DİNAMİK FAZ DİYAGRAMLARI, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2008

### **Research Areas**

Physics, General Physics, Statistical physics, thermodynamic and nonlinear dynamic systems, Thermal Properties of Condensed Matter, Magnetic Properties and Materials, Natural Sciences

### **Academic Titles / Tasks**

Professor, Erciyes University, Fen Fakültesi, Fizik, 2022 - Continues

Associate Professor, Erciyes University, Fen Fakültesi, Fizik, 2014 - 2022

Research Assistant PhD, Erciyes University, Fen Fakültesi, Fizik, 2012 - 2014

Research Assistant, Erciyes University, Fen Fakültesi, Fizik, 2009 - 2012

## **Academic and Administrative Experience**

Ethics Committee Member, Erciyes University, Rektörlük, 2023 - Continues  
Head of Department, Erciyes University, Fen Fakültesi, Fizik, 2023 - Continues  
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Erciyes University, Fen Fakültesi, Fizik, 2023 - Continues  
Erciyes University, 2015 - Continues  
Vice Dean, Erciyes University, Fen Fakültesi, 2016 - 2020  
Erciyes Üniversitesi, Fizik Bölümü, 2015 - 2016

## **Courses**

İstatistik Mekanik, Postgraduate, 2022 - 2023  
BİLGİSAYAR, Undergraduate, 2022 - 2023  
SEMİNER, Postgraduate, 2021 - 2022  
FİZİKTE ARAŞTIRMA YÖNTEMLERİ VE ETİK, Doctorate, 2021 - 2022  
SEMİNER, Doctorate, 2021 - 2022  
FİZİK-I, Undergraduate, 2019 - 2020  
FİZİK I, Undergraduate, 2019 - 2020  
FİZİK II, Undergraduate, 2018 - 2019  
GENEL FİZİK I, Undergraduate, 2019 - 2020  
GENEL FİZİK II, Undergraduate, 2018 - 2019  
FİZİK-1, Undergraduate, 2018 - 2019  
İSTATİSTİK MEKANİK II, Doctorate, 2018 - 2019  
İSTATİSTİK FİZİK I, Undergraduate, 2018 - 2019  
FİZİK II, Undergraduate, 2016 - 2017  
İŞ SAĞLIĞI VE GÜVENLİĞİ II, Undergraduate, 2016 - 2017  
GENEL FİZİK II, Undergraduate, 2015 - 2016  
İŞ SAĞLIĞI VE GÜVENLİĞİ I, Undergraduate, 2016 - 2017  
FİZİK, Undergraduate, 2016 - 2017  
İSTATİSTİK FİZİK II, Undergraduate, 2015 - 2016  
FİZİK - I, Undergraduate, 2016 - 2017  
FİZİK-II, Undergraduate, 2015 - 2016  
MATEMATİK, Undergraduate, 2016 - 2017  
BİLGİSAYAR KULLANIMI , Undergraduate, 2015 - 2016  
FİZİK-1, Undergraduate, 2015 - 2016  
GENEL FİZİK I , Undergraduate, 2015 - 2016

## **Advising Theses**

ERTAŞ M., Karma spin-3/2 ve spin-5/2 Ising sisteminin dinamik manyetik özelliklerinin Glauber geçiş oranları temelli Etkin-Alan Teorisi ile incelenmesi, Postgraduate, A.YILMAZ(Student), 2018  
ERTAŞ M., Cdse/cds kuantum nokta yapısının optik özelliklerinin incelenmesi / Investigation of optical properties of cdse/cds quantum dot structure, Postgraduate, H.ARSLAN(Student), 2017

## **Jury Memberships**

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yozgat Bozok Üniversitesi, June, 2023

Post Graduate, Post Graduate, Nevşehir Hacı Bektaş Veli Üniversitesi, October, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Erciyes Üniversitesi, August, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yozgat Bozok Üniversitesi, May, 2022

Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, August, 2019

Doctorate, Doktora Sinav Jürisi (TİK Üyesi), Erciyes Üniversitesi, May, 2018

Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, March, 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dynamic hysteresis curves in a mixed spin ternary alloy system under the time-dependent magnetic field**  
ERTAŞ M., Batı M.  
Physica Scripta, vol.98, no.9, 2023 (SCI-Expanded)
- II. **Kinetic study on sandwiched trilayer with square lattices in the form of mixed spin - (1 / 2 , 1 , 1 / 2)**  
Kozan A., ERTAŞ M.  
European Physical Journal Plus, vol.138, no.8, 2023 (SCI-Expanded)
- III. **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)
- IV. **Dynamic magnetic properties of spin-7/2 multilayer Ising system in an oscillating magnetic field**  
ERTAŞ M., BATI M.  
Phase Transitions, vol.96, 2023 (SCI-Expanded)
- V. **Kinetic mixed Ising system in the presence of a periodically varying external magnetic field: effective-field theory with Glauber-type stochastic dynamic for the magnetic properties**  
ERTAŞ M., TEMİZER Ü.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.11, 2022 (SCI-Expanded)
- VI. **Triangular Ising nanowire system with core/shell structured**  
KANTAR E., ERTAŞ M.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.10, 2022 (SCI-Expanded)
- VII. **Dynamic magnetic properties of multilayer mixed spin-1 and spin-3/2 Ising model**  
ERTAŞ M., Deviren B.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.9, 2022 (SCI-Expanded)
- VIII. **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)
- IX. **Dynamic magnetic properties of the spin-7/2 Ising nanowire systems with core-shell structure**  
Ertaş M.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.2, 2022 (SCI-Expanded)
- X. **Dynamic magnetic properties of a mixed ferro-ferrimagnetic ternary alloy in the form of AB(p)C(1-p) with single-ion anisotropy**  
BATI M., ERTAŞ M.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.573, 2021 (SCI-Expanded)
- XI. **Dynamic magnetic properties in 2-dimensional kinetic spin-7/2 Ising system**  
ERTAŞ M.

- PHYSICS LETTERS A, vol.389, 2021 (SCI-Expanded)
- XII. **Dynamic magnetic features of a mixed ferro-ferrimagnetic ternary alloy in the form of AB(p)C(1-p)**  
BATI M., ERTAŞ M.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.1, 2021 (SCI-Expanded)
- XIII. **Dynamic critical phenomena in a multilayer Ising system**  
ERTAŞ M., BATI M.  
CHINESE JOURNAL OF PHYSICS, vol.66, pp.724-732, 2020 (SCI-Expanded)
- XIV. **Dynamic magnetic hysteresis loop behaviors of a mixed spin (2,5/2) Ising model on two interpenetrating square lattices**  
KESKİN M., ERTAŞ M.  
PHYSICA SCRIPTA, vol.95, no.5, 2020 (SCI-Expanded)
- XV. **Dynamic magnetic properties of a hexagonal Ising nanowire system with higher-spin**  
KESKİN M., ERTAŞ M.  
PHASE TRANSITIONS, vol.93, no.4, pp.361-375, 2020 (SCI-Expanded)
- XVI. **Dynamic Phenomena in Mixed Spin-1 and Spin-1/2 Ising Bilayer System: Effective-Field Theory Based on Glauber Type Stochastic Dynamics**  
ERTAŞ M.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.12, pp.3853-3863, 2019 (SCI-Expanded)
- XVII. **Dynamic magnetic properties the spin-1 Ising model with bilinear and biquadratic interactions within the path probability method**  
ERTAŞ M., KESKİN M.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.526, 2019 (SCI-Expanded)
- XVIII. **Dynamical thermal dependences of the total magnetization and dynamic magnetic hysteresis properties of Ising bilayer system with square lattice**  
ERTAŞ M.  
PHYSICA B-CONDENSED MATTER, vol.550, pp.154-162, 2018 (SCI-Expanded)
- XIX. **Dynamic hysteresis loops of the spin-2 bilayer Ising model**  
ERTAŞ M., BATI M., Temizer U.  
CHINESE JOURNAL OF PHYSICS, vol.56, no.3, pp.807-818, 2018 (SCI-Expanded)
- XX. **Frequency-dependent dynamic magnetic properties of the Ising bilayer system consisting of spin-3/2 and spin-5/2 spins**  
KESKİN M., ERTAŞ M.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.496, pp.79-89, 2018 (SCI-Expanded)
- XXI. **Dynamic magnetic and hysteretic properties of the different type core/shell nanostructures: the effect of geometry of wire shape**  
KANTAR B. B., ERTAŞ M.  
PHILOSOPHICAL MAGAZINE, vol.98, no.30, pp.2734-2748, 2018 (SCI-Expanded)
- XXII. **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)
- XXIII. **Dynamic Magnetic Hysteresis Behaviors in a Mixed Spin (3/2,2) Bilayer System with Different Crystal-Field Interactions**  
KESKİN M., ERTAŞ M.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.12, pp.3439-3449, 2017 (SCI-Expanded)
- XXIV. **Dynamic Properties of Kinetic Spin-3/2 Ising Ferromagnetic Model in the Presence of the Crystal and External Oscillating Magnetic Fields**  
ERTAŞ M.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.7, pp.1839-1847, 2017 (SCI-Expanded)
- XXV. **Effect of the Hamiltonian parameters on the hysteresis properties of the kinetic mixed spin (1/2,1) Ising ferrimagnetic model on a hexagonal lattice**  
BATI M., ERTAŞ M.

- PHYSCA B-CONDENSED MATTER, vol.513, pp.40-47, 2017 (SCI-Expanded)
- XXVI. **Dynamic magnetic hysteresis properties of two-dimensional ferrimagnetic structures containing high-spin ( $S=5/2$ ) and low-spin ( $S=1/2$ )**  
 Bati M., ERTAŞ M.  
 PHASE TRANSITIONS, vol.90, no.9, pp.863-872, 2017 (SCI-Expanded)
- XXVII. **Dynamic Magnetic Hysteresis Properties in a Two-Dimensional Mixed Ising System Designed with Integer and Half-Integer Spins**  
 Bati M., ERTAŞ M.  
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.11, pp.2835-2841, 2016 (SCI-Expanded)
- XXVIII. **Effect of the Hamiltonian parameters on Blume-Capel Ising ferromagnet system with single-ion anisotropy**  
 BATI M., ERTAŞ M.  
 SUPERLATTICES AND MICROSTRUCTURES, vol.98, pp.259-266, 2016 (SCI-Expanded)
- XXIX. **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)
- XXX. **Hysteresis and Compensation Behaviors of Mixed Spin-1 and Spin-2 Hexagonal Ising Nanowire System**  
 ERTAŞ M.  
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.7, pp.1805-1812, 2016 (SCI-Expanded)
- XXXI. **Mixed Ising system designed with integer and half-integer spins: dynamic behaviors under oscillating magnetic field**  
 ERTAŞ M.  
 PHASE TRANSITIONS, vol.89, no.6, pp.608-621, 2016 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **The dynamic magnetic behaviors of the Blume-Capel Ising bilayer system**  
 ERTAŞ M.  
 MODERN PHYSICS LETTERS B, vol.29, 2015 (SCI-Expanded)
- XXXV. **Dynamic phase diagrams of a ferrimagnetic mixed spin (1/2,1) Ising system within the path probability method**  
 ERTAŞ M., KESKİN M.  
 PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.437, pp.430-436, 2015 (SCI-Expanded)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Magnetic properties of the spin-3/2 Blume-Capel model on a hexagonal Ising nanowire**  
 KOCAKAPLAN Y., ERTAŞ M.  
 JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS, vol.121, no.4, pp.606-615, 2015 (SCI-Expanded)
- XXXIX. **Dynamic hysteresis behaviors for the two-dimensional mixed spin (2,5/2) ferrimagnetic Ising model in an oscillating magnetic field**  
 Ertas M.

- SUPERLATTICES AND MICROSTRUCTURES, vol.85, pp.734-742, 2015 (SCI-Expanded)
- XL. **Dynamic hysteresis features in a two-dimensional mixed Ising system**  
ERTAŞ M., KESKİN M.  
PHYSICS LETTERS A, vol.379, pp.1576-1583, 2015 (SCI-Expanded)
- XLI. **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)
- XLII. **Dynamic phase transition properties for the mixed spin-(1/2,1) Ising model in an oscillating magnetic field**  
ERTAŞ M., KESKİN M.  
PHYSICA B-CONDENSED MATTER, vol.470, pp.76-81, 2015 (SCI-Expanded)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **Dynamic phase transitions and dynamic phase diagrams of the Blume-Emery-Griffiths model in an oscillating field: the effective-field theory based on the Glauber-type stochastic dynamics**  
ERTAŞ M., KESKİN M.  
PHASE TRANSITIONS, vol.88, no.6, pp.634-647, 2015 (SCI-Expanded)
- XLVII. **Dynamic phase transitions of the Blume-Emery-Griffiths model under an oscillating external magnetic field by the path probability method**  
ERTAŞ M., KESKİN M.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.377, pp.386-394, 2015 (SCI-Expanded)
- XLVIII. **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)
- XLIX. **Dynamic phase diagrams of the Blume-Capel model in an oscillating field by the path probability method**  
ERTAŞ M., KESKİN M.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.411, pp.42-52, 2014 (SCI-Expanded)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **The dynamic phase transition in the spin-1/2 Ising system within the path probability method**  
ERTAŞ M., KESKİN M.  
PHASE TRANSITIONS, vol.87, no.4, pp.376-386, 2014 (SCI-Expanded)
- LIV. **Dynamic behaviors of the hexagonal Ising nanowire**

- ERTAŞ M., Kocakaplan Y.  
 PHYSICS LETTERS A, vol.378, no.10, pp.845-850, 2014 (SCI-Expanded)
- LV. **Dynamic magnetic behavior of the mixed spin (2,5/2) Ising system with antiferromagnetic/antiferromagnetic interactions on a bilayer square lattice**  
 ERTAŞ M., KESKİN M.  
 CHINESE PHYSICS B, vol.22, no.12, 2013 (SCI-Expanded)
- LVI. **Effective-field theory for dynamic phase diagrams of the kinetic spin-3/2 Blume-Capel model under a time oscillating longitudinal field**  
 ERTAŞ M., Kocakaplan Y., KESKİN M.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.348, pp.113-119, 2013 (SCI-Expanded)
- LVII. **Nonequilibrium magnetic properties in a two-dimensional kinetic mixed Ising system within the effective-field theory and Glauber-type stochastic dynamics approach**  
 ERTAŞ M., Deviren B., KESKİN M.  
 PHYSICAL REVIEW E, vol.86, no.5, 2012 (SCI-Expanded)
- LVIII. **Dynamic magnetic behavior of the mixed-spin bilayer system in an oscillating field within the mean-field theory**  
 ERTAŞ M., KESKİN M.  
 PHYSICS LETTERS A, vol.376, no.36, pp.2455-2466, 2012 (SCI-Expanded)
- LIX. **Dynamic magnetizations and dynamic phase transitions in a transverse cylindrical Ising nanowire**  
 Deviren B., ERTAŞ M., KESKİN M.  
 PHYSICA SCRIPTA, vol.85, no.5, 2012 (SCI-Expanded)
- LX. **Dynamic phase transitions and dynamic phase diagrams in the kinetic spin-5/2 Blume-Capel model in an oscillating external magnetic field: Effective-field theory and the Glauber-type stochastic dynamics approach**  
 ERTAŞ M., KESKİN M., Deviren B.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.8, pp.1503-1511, 2012 (SCI-Expanded)
- LXI. **Dynamic phase transitions and dynamic phase diagrams of the spin-2 Blume-Capel model under an oscillating magnetic field within the effective-field theory**  
 ERTAŞ M., Deviren B., KESKİN M.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.5, pp.704-710, 2012 (SCI-Expanded)
- LXII. **Multicritical Dynamic Phase Diagrams and Dynamic Hysteresis Loops in a Mixed Spin-2 and Spin-5/2 Ising Ferrimagnetic System with Repulsive Biquadratic Coupling: Glauber Dynamic Approach**  
 ERTAŞ M., KESKİN M., Deviren B.  
 JOURNAL OF STATISTICAL PHYSICS, vol.146, no.6, pp.1244-1262, 2012 (SCI-Expanded)
- LXIII. **Dynamic magnetic properties in the kinetic mixed spin-2 and spin-5/2 Ising model under a time-dependent magnetic field**  
 ERTAŞ M., KESKİN M., Deviren B.  
 PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.4, pp.1038-1047, 2012 (SCI-Expanded)
- LXIV. **The 4th Asian Physics Symposium**  
 ERTAŞ M., DEVİREN B., KESKİN M.  
 AIP Conference Proceedings, vol.1325, pp.39-43, 2010 (SCI-Expanded)
- LXV. **The effective-field theory studies of critical phenomena in a mixed spin-1 and spin-2 Ising model on honeycomb and square lattices**  
 DEVİREN B., ERTAŞ M., KESKİN M.  
 PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.389, no.10, pp.2036-2047, 2010 (SCI-Expanded)
- LXVI. **Mixed-Spin Ising Model in an Oscillating Magnetic Field and Compensation Temperature**  
 KESKİN M., ERTAŞ M.  
 JOURNAL OF STATISTICAL PHYSICS, vol.139, no.2, pp.333-344, 2010 (SCI-Expanded)
- LXVII. **Dynamic phase transition in the kinetic spin-5/2 Blume-Emery-Griffiths model in an oscillating external magnetic field**

- KESKİN M., ERTAŞ M.  
PHASE TRANSITIONS, vol.83, no.5, pp.349-367, 2010 (SCI-Expanded)
- LXVIII. Existence of a dynamic compensation temperature of a mixed spin-2 and spin-5/2 Ising ferrimagnetic system in an oscillating field  
KESKİN M., ERTAŞ M.  
PHYSICAL REVIEW E, vol.80, no.6, 2009 (SCI-Expanded)
- LXIX. Dynamic phase transitions and dynamic phase diagrams in the kinetic mixed spin-1 and spin-2 Ising system in an oscillating magnetic field  
KESKİN M., ERTAŞ M., Canko O.  
PHYSICA SCRIPTA, vol.79, no.2, 2009 (SCI-Expanded)
- LXX. Dynamic Phase Transition and Multicritical Dynamic Phase Diagrams of The Kinetic Spin-2 Ising Model With Repulsive Biquadratic Coupling under a Time-dependent Oscillating External Field  
ERTAŞ M., KESKİN M., Canko O.  
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.53, no.4, pp.1807-1820, 2008 (SCI-Expanded)
- LXXI. Dynamic phase transition in the kinetic spin-2 Blume-Emery-Griffiths model in an oscillating field  
ERTAŞ M., Canko O., KESKİN M.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.320, no.11, pp.1765-1774, 2008 (SCI-Expanded)
- LXXII. Kinetics of the spin-2 Blume-Capel model under a time-dependent oscillating external field  
KESKİN M., Canko O., Ertas M.  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS, vol.105, no.6, pp.1190-1197, 2007 (SCI-Expanded)

### Articles Published in Other Journals

- I. Kinetic phase phenomena of model with the chemical formula AB<sub>p</sub>C<sub>1-p</sub> on honeycomb lattice  
BATI M., ERTAŞ M.  
Micro and Nanostructures, vol.189, 2024 (Scopus)
- II. Dynamic Hysteresis Properties of Mixed Spin (1, 5/2) Ising Ferrimagnetic Blume-Capel Model: An Effective-Field Theory Analysis  
BATI M., ERTAŞ M.  
Advanced Science, Engineering and Medicine, vol.11, pp.1-4, 2019 (Peer-Reviewed Journal)
- III. Dynamic magnetic properties of mixed half-integer ( $\sigma = 3/2$ ) and half-integer ( $S = 5/2$ ) spins: Dynamic effectice-field theory  
ERTAŞ M., YILMAZ A.  
COMPUTATIONAL CONDENSED MATTER, vol.14, pp.1-7, 2018 (ESCI)
- IV. Dynamic magnetic hysteresis behavior of Blume Capel model under the presence of an oscillating magnetic field The path probability method approach  
ERTAŞ M., KESKİN M.  
International Juornal of Advances in Science Engineering and Technolgy, vol.3, pp.41-44, 2015 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. Üniversiteler için FİZİK-HIZLI ÇALIŞMA KİTABI (Konu Özeti Problem Çözümleri)  
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- II. Zamana Bağlı Salınımlı Dış Manyetik Alan Altında Karma Spin-1/2 ve Spin-1 Ising Sisteminde Dinamik Faz Geçişleri ve Dinamik Telafi Sıcaklığı  
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## Refereed Congress / Symposium Publications in Proceedings

- I. COMPARABLE STUDIES OF DYNAMIC MAGNETIC AND HYSTERETIC PROPERTIES OF THE ISING-TYPE CORE/SHELL NANOWIRES SYSTEMS  
ERTAŞ M., Kantar E., Boyabat Kantar B. B. K., KESKİN M.  
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- II. Dynamic Hysteresis properties of mixed spin (1, 5/2) Ising ferrimagnetic Blume- Capel model: An Effective-Field Theory Analysis  
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- III. Effect of Time Dependent Sinusoidal Magnetic Field on Mixed Spin (1, 5/2) Ising Ferromagnetic Blume-Capel Model: an Effective-field Theory Analysis  
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- IV. Dynamic Magnetic Hysteresis Behaviors In A Mixed Spin (3/2, 2) Bilayer System With Different Crystal-Field Interactions  
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- XIII. **Dynamic magnetic hysteresis behavior of Blume Capel model under the presence of an oscillating magnetic field The path probability method approach**  
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- XIV. **Dynamic magnetic hysteresis behaviors of Blume-Capel model under the presence of an oscillating magnetic field:The path probability method aproach**  
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- XVII. **A Study of Dynamic Phase Transition within the Path Probability Method of Kikuchi**  
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- XVIII. **Dynamic phase transitions and dynamic phase diagrams in the mixed spin-(1/2, 1) Ising model in an oscillating magnetic field**  
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## Metrics

Publication: 104

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## Non Academic Experience

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