

ÜMIT AKINCI

ASSOC. PROF.

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Yoksis Researcher ID: 143714

Learning Knowledge

Associate Degree

2018 - 2020

Anadolu University, Open Education Faculty, Department Of Finance, Banking And Insurance, Turkey

Undergraduate

2012 - 2018

Anadolu University, Faculty Of Economics, Department Of Economics, Turkey

Doctorate

2003 - 2010

Dokuz Eylul University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey

Postgraduate

1999 - 2002

Dokuz Eylul University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey

Undergraduate

1994 - 1999

Ege University, Faculty Of Science, Fizik Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Katılarım kuantum Monte Carlo simülasyonları, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2009

Postgraduate, Phase diagrams of the spin-1/2 ising system on two dimensional lattices, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 2002

Academic Titles / Tasks

Associate Professor

2014 - Continues

Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü

Research Assistant

2001 - 2014

Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü

Supported Projects

1. Akinci Ü., Aktürk E., Yüksel Y., Vatansever E., TUBITAK Project, İki Boyutlu MX₃ (M=Fe, Ru, Rh, X=Cl, Br, I) Tabakaların Manyetik Özelliklerinin Yoğunluk Fonksiyoneli Teorisi ve Monte Carlo Yöntemleri Kullanarak Belirlenmesi, 2017 - 2020
2. YÜKSEL Y., AKINCI Ü., TUBITAK Project, Manyetik Nanoparçacıklar Ve İnce Filmlerde Değiş-Tokuş Anizotropisinin Ve Süperparamanyetizmanın Dinamik Manyetik Alanlar Varlığındaki Davranışının Teknolojik Ve Biyomedikal Uygulamalardaki Potansiyeli, 2016 - 2017

Designed Lessons

Akinci Ü., Yapay Sinir Ağları ve Fizik Uygulamaları, Postgraduate, 2021 - 2022

Akinci Ü., Hesaplamalı Mikromanyetizma, Doctorate, 2021 - 2022

Akinci Ü., Manyetizmanın Temelleri, Doctorate, 2021 - 2022

Akinci Ü., Hesaplamalı Nanobilim - I, Doctorate, 2020 - 2021

Akinci Ü., Hesaplamalı Nanobilim - II, Doctorate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Micromagnetic investigation of dynamic hysteresis and dynamic phase transition properties in Co, Fe and Ni nanodisks**
Çam N., AKINCI Ü.
Physics Letters, Section A: General, Atomic and Solid State Physics, vol.500, 2024 (SCI-Expanded)
2. **Effect of the dipolar interaction on the dynamic hysteresis properties of 2D-nanodisks: out of plane driving field case**
Çam N., Akinci Ü.
PHYSICA SCRIPTA, vol.98, no.12, pp.125976, 2023 (SCI-Expanded)
3. **Ground State Dynamic Hysteresis Properties of Permalloy Nanodisk with Varying Shapes**
Çam N., AKINCI Ü.
Journal of Superconductivity and Novel Magnetism, 2023 (SCI-Expanded)
4. **Metamagnetic anomalies in the kinetic Blume-Capel model with arbitrary spin**
YÜKSEL Y., AKINCI Ü., VATANSEVER E.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.603, 2022 (SCI-Expanded)
5. **First-principles and Monte Carlo investigation of magnetic properties of two-dimensional transition metal alloyed boron-carbide CrFeBC sheet**
Abdullahi Y. Z., DEMİR VATANSEVER Z., AKTÜRK E., AKINCI Ü., AKTÜRK O. Ü.
COMPUTATIONAL MATERIALS SCIENCE, vol.202, 2022 (SCI-Expanded)
6. **Magnetization of silicene via coverage with gadolinium: Effects of thickness, symmetry, strain, and coverage**
DEMİRCİ S., Gorkan T., Callioglu S., YÜKSEL Y., AKINCI Ü., AKTÜRK E., ÇIRACI S.
PHYSICAL REVIEW B, vol.104, no.22, 2021 (SCI-Expanded)
7. **Novel two-dimensional CrXB₂ (X=Cr, Ru) metal for high Neel temperature antiferromagnetic spintronics**

- Abdullahi Y. Z., DEMİR VATANSEVER Z., AKTÜRK E., AKINCI Ü., AKTÜRK O. Ü.
JOURNAL OF SOLID STATE CHEMISTRY, vol.302, 2021 (SCI-Expanded)
8. Effect of the Gaussian random field distribution on the hysteresis and thermodynamic properties of the binary alloy
Karakoyun G., AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.569, 2021 (SCI-Expanded)
9. Doping-Driven Antiferromagnetic to Ferromagnetic Phase Transition in Tetragonal Cr₂B₂ Monolayer
Abdullahi Y. Z., DEMİR VATANSEVER Z., AKTÜRK E., AKINCI Ü., AKTÜRK O. Ü.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.258, no.4, 2021 (SCI-Expanded)
10. Magnetocaloric properties of the binary Ising model with arbitrary spin
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.523, 2021 (SCI-Expanded)
11. Columnar antiferromagnetic order of a MBene monolayer
Ozdemir I., KADIOĞLU Y., YÜKSEL Y., AKINCI Ü., AKTÜRK O. Ü., AKTÜRK E., ÇIRACI S.
PHYSICAL REVIEW B, vol.103, no.14, 2021 (SCI-Expanded)
12. Ferromagnetic TM₂BC (TM = Cr, Mn) monolayers for spintronic devices with high Curie temperature
Abdullahi Y. Z., DEMİR VATANSEVER Z., ERSAN F., AKINCI Ü., AKTÜRK O. Ü., AKTÜRK E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.23, no.10, pp.6107-6115, 2021 (SCI-Expanded)
13. Magnetocaloric properties of the spin-S ($S \geq 1$) Ising model driven by a time dependent oscillating magnetic field
YÜKSEL Y., VATANSEVER E., AKINCI Ü.
PHYSICS LETTERS A, vol.388, 2021 (SCI-Expanded)
14. Above Room Temperature Ferromagnetism in Gd₂B₂ Monolayer with High Magnetic Anisotropy
Gorkan T., VATANSEVER E., AKINCI Ü., Gokoglu G., AKTÜRK E., ÇIRACI S.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.124, no.23, pp.12816-12823, 2020 (SCI-Expanded)
15. A tetragonal phase Mn₂B₂ sheet: a stable room temperature ferromagnet with sizable magnetic anisotropy
Abdullahi Y. Z., DEMİR VATANSEVER Z., AKTÜRK E., AKINCI Ü., AKTÜRK O. Ü.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.22, no.19, pp.10893-10899, 2020 (SCI-Expanded)
16. New cluster approximation for Ising systems
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.499, 2020 (SCI-Expanded)
17. Effects of the double Gaussian random field distribution on the phase diagrams and hysteresis characteristics of the magnetic binary alloys
Karakoyun G., AKINCI Ü.
PHYSICA B-CONDENSED MATTER, vol.578, 2020 (SCI-Expanded)
18. Tuning the electronic structure of RhX₃ (X = Cl, Br, I) nonmagnetic monolayers: effects of charge-injection and external strain
KADIOĞLU Y., Ozdemir I., AKTÜRK O. Ü., Gokoglu G., AKINCI Ü., AKTÜRK E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.22, no.8, pp.4561-4573, 2020 (SCI-Expanded)
19. A new single-layer structure of MBene family: Ti₂B
Ozdemir I., Kadioglu Y., AKTÜRK O. Ü., Yuksel Y., Akinci Ü., Akturk E.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.31, no.50, 2019 (SCI-Expanded)
20. On the spin - S random field Ising model
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.488, 2019 (SCI-Expanded)
21. Dynamical response of the Ising model to an amplitude modulated time dependent magnetic field
AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.527, 2019 (SCI-Expanded)

22. Exploring the electronic and magnetic properties of new metal halides from bulk to two-dimensional monolayer: RuX₃ (X = Br, I)
ERSAN F., VATANSEVER E., Sarikurt S., YÜKSEL Y., KADIOĞLU Y., Ozaydin H. D., AKTÜRK O. Ü., AKINCI Ü., AKTÜRK E.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.476, pp.111-119, 2019 (SCI-Expanded)
23. Strain effects on electronic and magnetic properties of the monolayer alpha-RuCl₃: A first-principles and Monte Carlo study
VATANSEVER E., Sarikurt S., ERSAN F., KADIOĞLU Y., AKTÜRK O. Ü., YÜKSEL Y., Ataca C., AKTÜRK E., AKINCI Ü.
JOURNAL OF APPLIED PHYSICS, vol.125, no.8, 2019 (SCI-Expanded)
24. Isotropic and anisotropic quantum Heisenberg models under bond randomness: An effective-field theory study
Vatansever E., AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.512, pp.818-823, 2018 (SCI-Expanded)
25. Monte Carlo simulation of exchange bias in spin valve systems
YÜKSEL Y., AKINCI Ü.
PHYSICA B-CONDENSED MATTER, vol.549, pp.24-30, 2018 (SCI-Expanded)
26. Magnetocaloric properties of the spin-S ($S \geq 1$) Ising model on a honeycomb lattice
AKINCI Ü., YÜKSEL Y., VATANSEVER E.
PHYSICS LETTERS A, vol.382, no.45, pp.3238-3243, 2018 (SCI-Expanded)
27. Multiple hysteresis behaviors in spin models: Effect of anisotropy in the exchange interaction
AKINCI Ü., YÜKSEL Y.
PHYSICA B-CONDENSED MATTER, vol.549, pp.1-5, 2018 (SCI-Expanded)
28. Binary alloy in random field: Phase diagrams
Karakoyun G., AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.510, pp.407-414, 2018 (SCI-Expanded)
29. Dynamical response of the Ising model to the time dependent magnetic field with white noise
AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.494, pp.242-250, 2018 (SCI-Expanded)
30. Dynamical phase transition characteristics of FeC₂ monolayer
DEMİR VATANSEVER Z., AKINCI Ü.
MATERIALS RESEARCH EXPRESS, vol.5, no.2, 2018 (SCI-Expanded)
31. Electronic and magnetic properties of monolayer alpha-RuCl₃: a first-principles and Monte Carlo study
Sarikurt S., Kadioglu Y., Ersan F., VATANSEVER E., AKTÜRK O. Ü., YÜKSEL Y., AKINCI Ü., Akturk E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.20, no.2, pp.997-1004, 2018 (SCI-Expanded)
32. Influence of modified surface effects on the magnetocaloric properties of ferromagnetic thin films
YÜKSEL Y., AKINCI Ü., VATANSEVER E.
THIN SOLID FILMS, vol.646, pp.67-74, 2018 (SCI-Expanded)
33. A comparative study of critical phenomena and magnetocaloric properties of ferromagnetic ternary alloys
YÜKSEL Y., AKINCI Ü.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.112, pp.143-152, 2018 (SCI-Expanded)
34. Hysteresis behaviors of the crystal field diluted general spin-S Ising model
AKINCI Ü.
PHYSICS LETTERS A, vol.381, no.38, pp.3258-3265, 2017 (SCI-Expanded)
35. On the hysteresis behaviors of the higher spin Ising model
AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.483, pp.130-138, 2017 (SCI-Expanded)
36. Hysteresis behavior of the binary Ising model
AKINCI Ü., Karakoyun G.
PHYSICA B-CONDENSED MATTER, vol.521, pp.365-370, 2017 (SCI-Expanded)
37. Non equilibrium magnetocaloric properties of Ising model defined on regular lattices with arbitrary

coordination number

VATANSEVER E., AKINCI Ü., YÜKSEL Y.

PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.479, pp.563-571, 2017 (SCI-Expanded)

38. **Nonequilibrium phase transitions in isotropic Ashkin-Teller model**

AKINCI Ü.

PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.469, pp.740-749, 2017 (SCI-Expanded)

39. **Influence of time dependent longitudinal magnetic fields on the cooling process, exchange bias and magnetization reversal mechanism in FM core/AFM shell nanoparticles: a Monte Carlo study**

YÜKSEL Y., AKINCI Ü.

JOURNAL OF PHYSICS-CONDENSED MATTER, vol.28, no.48, 2016 (SCI-Expanded)

40. **Crystal field dilution in S-1 Blume Capel model: Hysteresis behaviors**

AKINCI Ü.

PHYSICS LETTERS A, vol.380, pp.1352-1357, 2016 (SCI-Expanded)

41. **Hysteresis behaviors of a spin-1 anisotropic Heisenberg model**

AKINCI Ü.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.397, pp.247-254, 2016 (SCI-Expanded)

42. **Non-equilibrium phase transition properties of disordered binary ferromagnetic alloy**

VATANSEVER E., AKINCI Ü., POLAT H.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.389, pp.40-47, 2015 (SCI-Expanded)

43. **Effective field theory in larger clusters - Ising model**

AKINCI Ü.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.386, pp.60-68, 2015 (SCI-Expanded)

44. **Thickness dependent Curie temperature and power-law behavior of layering transitions in ferromagnetic classical and quantum thin films described by Ising, XY and Heisenberg models**

YÜKSEL Y., AKINCI Ü.

Physica B: Condensed Matter, vol.462, pp.54-58, 2015 (SCI-Expanded)

45. **Convergence of monetary equivalent of labour times (MELTs) in two Marxian interpretations**

AKINCI Ü., KARAHANOĞULLARI Y.

Cambridge Journal of Economics, vol.39, no.3, pp.769-781, 2015 (SSCI)

46. **Random field distributed Heisenberg model on a thin film geometry**

AKINCI Ü.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.368, pp.36-43, 2014 (SCI-Expanded)

47. **Dynamic hysteretic features of Ising-type thin films**

Aktas B. O., AKINCI Ü., POLAT H.

PHYSICAL REVIEW E, vol.90, no.1, 2014 (SCI-Expanded)

48. **Critical phenomena in dynamical Ising-typed thin films by effective-field theory**

Aktas B. O., AKINCI Ü., POLAT H.

THIN SOLID FILMS, vol.562, pp.680-691, 2014 (SCI-Expanded)

49. **Critical and reentrant behavior of the spin quantum 1/2 anisotropic Heisenberg antiferromagnet model with Dzyaloshinskii-Moriya interaction in a longitudinal magnetic field**

Parente W. E. F., Pacobahyba J. T. M., Araujo I. G., Neto M. A., de Sousa J. R., AKINCI Ü.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.355, pp.235-239, 2014 (SCI-Expanded)

50. **Universality aspects of layering transitions in ferromagnetic Blume-Capel thin films**

YÜKSEL Y., AKINCI Ü.

PHYSICA B-CONDENSED MATTER, vol.433, pp.96-101, 2014 (SCI-Expanded)

51. **Anisotropic Heisenberg model in thin film geometry**

AKINCI Ü.

THIN SOLID FILMS, vol.550, pp.602-607, 2014 (SCI-Expanded)

52. **Time dependent magnetic field effects on the +/- J Ising model**

VATANSEVER E., AKINCI Ü., POLAT H.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.344, pp.89-95, 2013 (SCI-Expanded)

53. **Random field effects on the anisotropic quantum Heisenberg model with Gaussian random magnetic field distribution**
AKINCI Ü.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.392, no.19, pp.4380-4387, 2013 (SCI-Expanded)
54. **Bond diluted anisotropic quantum Heisenberg model**
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.343, pp.69-75, 2013 (SCI-Expanded)
55. **Hysteresis behavior of the anisotropic quantum Heisenberg model**
AKINCI Ü.
PHYSICS LETTERS A, vol.377, pp.1672-1676, 2013 (SCI-Expanded)
56. **Critical behavior of the 3D anisotropic quantum Heisenberg model in a trimodal random field distribution**
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.333, pp.156-161, 2013 (SCI-Expanded)
57. **Investigation of critical phenomena and magnetism in amorphous Ising nanowire in the presence of transverse fields**
YÜKSEL Y., AKINCI Ü., POLAT H.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.392, no.10, pp.2347-2358, 2013 (SCI-Expanded)
58. **Effects of the randomly distributed magnetic field on the phase diagrams of the transverse Ising thin film**
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.329, pp.178-187, 2013 (SCI-Expanded)
59. **Investigation of oscillation frequency and disorder induced dynamic phase transitions in a quenched-bond diluted Ising ferromagnet**
VATANSEVER E., AKINCI Ü., YÜKSEL Y., POLAT H.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.329, pp.14-23, 2013 (SCI-Expanded)
60. **Investigation of bond dilution effects on the magnetic properties of a cylindrical Ising nanowire**
YÜKSEL Y., AKINCI Ü., POLAT H.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.250, no.1, pp.196-206, 2013 (SCI-Expanded)
61. **Hysteretic response characteristics and dynamic phase transition via site dilution in the kinetic Ising model**
Aktas B. O., AKINCI Ü., Polat H.
PHYSICA B-CONDENSED MATTER, vol.407, no.24, pp.4721-4730, 2012 (SCI-Expanded)
62. **Effective field investigation of dynamic phase transitions for site diluted Ising ferromagnets driven by a periodically oscillating magnetic field**
AKINCI Ü., YÜKSEL Y., VATANSEVER E., POLAT H.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.23, pp.5810-5817, 2012 (SCI-Expanded)
63. **Effects of the randomly distributed magnetic field on the phase diagrams of the Ising Nanowire II: Continuous distributions**
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.24, pp.4237-4244, 2012 (SCI-Expanded)
64. **Effects of the randomly distributed magnetic field on the phase diagrams of Ising nanowire I: Discrete distributions**
AKINCI Ü.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.22, pp.3951-3960, 2012 (SCI-Expanded)
65. **Stationary State Solutions of a Bond Diluted Kinetic Ising Model: An Effective-Field Theory Analysis**
Vatansever E., Aktas B. O., YÜKSEL Y., AKINCI Ü., Polat H.
JOURNAL OF STATISTICAL PHYSICS, vol.147, no.6, pp.1068-1076, 2012 (SCI-Expanded)

66. **Critical behavior and phase diagrams of a spin-1 Blume-Capel model with random crystal field interactions: An effective field theory analysis**
 YÜKSEL Y., AKINCI Ü., POLAT H.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.9, pp.2819-2832, 2012 (SCI-Expanded)
67. **Nonequilibrium phase transitions and stationary-state solutions of a three-dimensional random-field Ising model under a time-dependent periodic external field**
 YÜKSEL Y., VATANSEVER E., AKINCI Ü., POLAT H.
PHYSICAL REVIEW E, vol.85, no.5, 2012 (SCI-Expanded)
68. **Random field effects on the phase diagrams of spin-1/2 Ising model on a honeycomb lattice**
 YÜKSEL Y., AKINCI Ü., POLAT H.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.3, pp.415-422, 2012 (SCI-Expanded)
69. **Effective-field-theory analysis of the three-dimensional random-field Ising model on isometric lattices**
 AKINCI Ü., YÜKSEL Y., POLAT H.
PHYSICAL REVIEW E, vol.83, no.6, 2011 (SCI-Expanded)
70. **Effects of the bond dilution on the phase diagrams of a spin-1 transverse Ising model with crystal field interaction on a honeycomb lattice**
 AKINCI Ü., YÜKSEL Y., POLAT H.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.390, no.4, pp.541-552, 2011 (SCI-Expanded)
71. **Characterization of platinum nitride from first-principles calculations**
 Yildiz A., AKINCI Ü., Gulseren O., Sokmen I.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.21, no.48, 2009 (SCI-Expanded)
72. **On dynamic plane elasticity problems of 2D quasicrystals**
 Akmaz H. K., AKINCI Ü.
PHYSICS LETTERS A, vol.373, no.22, pp.1901-1905, 2009 (SCI-Expanded)
73. **An introduced effective-field approximation and Monte Carlo study of a spin-1 Blume-Capel model on a square lattice**
 YÜKSEL Y., AKINCI Ü., POLAT H.
PHYSICA SCRIPTA, vol.79, no.4, 2009 (SCI-Expanded)
74. **A method for phase diagrams of spin-1 Ising ferromagnetic systems**
 Polat H., AKINCI Ü., Sokmen I.
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, vol.240, no.1, pp.189-200, 2003 (SCI-Expanded)
75. **The Welfare Party's municipal track record: Evaluating Islamist municipal activism in Turkey**
 AKINCI Ü.
MIDDLE EAST JOURNAL, vol.53, no.1, pp.75-94, 1999 (SSCI)

Refereed Congress / Symposium Publications in Proceedings

1. **İki Boyutlu Malzemelerde Manyetik Skyrmion Fazları**
 Akinci Ü.
 IX. YOĞUN MADDE FİZİĞİ İZMİR TOPLANTISI, İzmir, Turkey, 13 May 2022, pp.8
2. **Demir Nanoparçacıkların Dinamik Manyetik ve Histeresis Özellikleri**
 Akinci Ü., Çam N.
 IX. YOĞUN MADDE FİZİĞİ İZMİR TOPLANTISI, İzmir, Turkey, 13 May 2022, pp.23
3. **POSSIBILITIES OF ENHANCING MAGNETOCALORIC EFFECT IN LOW DIMENSIONAL SYSTEMS**
 AKINCI Ü., YÜKSEL Y., VATANSEVER E., DEMİR VATANSEVER Z.
 FIRST INTERNATIONAL BILATERAL WORKSHOP ON SCIENCE BETWEEN DOKUZ EYLÜL UNIVERSITY AND AZERBAIJAN NATIONAL ACADEMY OF SCIENCES, Turkey, 19 November 2021
4. **ENHANCING MAGNETOCALORIC EFFECT IN LOW DIMENSIONAL SYSTEMS**
 AKINCI Ü.

4th Pak-Turk International Conference on Emerging Technologies in the field of Sciences and Engineering,
Pakistan, 3 - 04 November 2021

5. **Magnetocaloric properties of the low dimensional magnetic systems**
AKINCI Ü.
TURKISH PHYSICAL SOCIETY 37 th INTERNATIONAL PHYSICS CONGRESS, Turkey, 1 - 05 September 2021
6. **The effects of the shape on skyrmion phases in magnetic nanodots**
Karakoyun G., AKINCI Ü.
TURKISH PHYSICAL SOCIETY 37 th INTERNATIONAL PHYSICS CONGRESS, Turkey, 1 - 05 September 2021
7. **Effect of Particle Size Geometry on Magnetocaloric and Magnetic Hyperthermia Properties in Magnetic Nanoparticles**
Akyıldız A., AKINCI Ü.
TURKISH PHYSICAL SOCIETY 37 th INTERNATIONAL PHYSICS CONGRESS, Turkey, 1 - 05 September 2021
8. **Determination of Magnetic Properties with Artificial Neural Networks**
Saltık S., AKINCI Ü.
TURKISH PHYSICAL SOCIETY 37 th INTERNATIONAL PHYSICS CONGRESS, Turkey, 1 - 05 September 2021
9. **Exploring the electronic and magnetic properties of new metal halides from bulk to two-dimensional monolayer: RuX₃ (X = Br, I)**
ERSAN F., VATANSEVER E., SARIKURT S., YÜKSEL Y., KADIOĞLU Y., Ozaydin H. D., ÜZENGİ AKTÜRK O., AKINCI Ü., AKTÜRK E.
International Materials Science and Nanotechnology for Next Generation Conference (MSNG2019), Niğde, Turkey,
16 - 18 October 2019
10. **Electronic and magnetic properties of monolayer a-RuCl₃ : a first-principles and Monte Carlo study**
SARIKURT S., KADIOĞLU Y., ERSAN F., VATANSEVER E., ÜZENGİ AKTÜRK O., YÜKSEL Y., AKINCI Ü., AKTÜRK E.
International Conference on Materials Science and Technology, Ankara, Turkey, 18 - 20 October 2019
11. **Magnetic Phase Transition by Strain Effect on Monolayer a-RuCl₃**
KADIOĞLU Y., VATANSEVER E., SARIKURT S., ERSAN F., ÜZENGİ AKTÜRK O., YÜKSEL Y., ATACA C., AKTÜRK E.,
AKINCI Ü.
TFD 35. Uluslararası Fizik Kongresi, Turkey, 4 - 08 September 2019
12. **İkili Ferromanyetik Alaşım Sistemlerinin Dinamik Histerezis Karakteristiklerinin Belirlenmesi**
Karakoyun G., AKINCI Ü.
24. İstatistiksel Fizik Günleri, İzmir, Turkey, 29 June - 01 July 2017
13. **Manyetik malzemelerin zamana bağlı module edilmiş manyetik alanındaki davranışları**
AKINCI Ü.
24. İstatistiksel Fizik Günleri, İzmir, Turkey, 29 June - 01 July 2017
14. **Monte Carlo simulation of exchange bias in bilayers and spherical particles: Dynamic phase transition properties**
YÜKSEL Y., AKINCI Ü.
11th International Symposium on Hysteresis Modeling and Micromagnetics (HMM 2017) Barcelona, İspanya, 29-
31 Mayıs 2017, Barcelona, Spain, 29 - 31 May 2017
15. **Multiple hysteresis behaviors in spin models: effect of random field and crystal field distribution**
AKINCI Ü., YÜKSEL Y.
11th Symposium on Hysteresis Modeling and Micromagnetics, Barcelona, Spain, 29 - 31 May 2017
16. **Multiple hysteresis behaviors in spin models: effect of anisotropy in the exchange interaction**
YÜKSEL Y., AKINCI Ü.
11th Symposium on Hysteresis Modeling and Micromagnetics, Barcelona, Spain, 29 - 31 May 2017
17. **Monte Carlo simulation of exchange bias in spin valvesystems: Dynamic phase transition properties**
AKINCI Ü., YÜKSEL Y.
11th Symposium on Hysteresis Modeling and Micromagnetics, Barcelona, Spain, 29 - 31 May 2017
18. **Multiple hysteresis behaviors in spin models**
AKINCI Ü.
42 nd The Conferences of the Middle European Cooperation in Statistical Physics, Lyon, France, 8 - 10 February

2017

19. **Manyetik Nanoparçacıklarda Değiş Tokuş Anizotropisinin Dinamik Manyetik Alanlar Varlığındaki Davranışı**
AKINCI Ü., YÜKSEL Y.
23. İstatistik Fizik Günleri, Turkey, 23 - 24 June 2016
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33. **İstatistiksel Mekaniğe Geometrik Yaklaşımlar Üzerine**
AKINCI Ü.
XIV.Uluslararası Matematik Sempozyumu, Turkey, 19 - 21 September 2001
34. **Sosyal Bilimler ve Psikolojide Topoloji**
AKINCI Ü.

XIV.Uluslararası Matematik Sempozyumu, Turkey, 19 - 21 September 2001

35. Determination Phase Diagrams of the Two Dimensional Ising Lattices in a Magnetic Field Using by Differential Operator Technique

AKINCI Ü., POLAT H.

8. İstatistik Fizik Günleri, Turkey, 5 - 06 July 2001

36. Hausdorff Uzaylarına Sonlu Yaklaşımlar ve Fizikteki Görünümleri

AKINCI Ü.

Doç.Dr. Eyüp Sabri Türker anısına Matematik Sempozyumu, Adapazarı, Turkey, 19 - 20 October 2000

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2021 - 2022	Deputy Head of Department	Dokuz Eylül University, Fen Fakültesi, Fizik Bölümü
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Courses

Matematiksel Fizik-II , Doctorate, 2022 - 2023

Fundamentals of the Magnetism , Doctorate, 2022 - 2023

Fizik I, Undergraduate, 2022 - 2023

Computational Nanoscience - I, Doctorate, 2020 - 2021

PHYSICS I, Undergraduate, 2020 - 2021, 2019 - 2020

İstatistik Fizik, Undergraduate, 2019 - 2020

PHYSICS II, Undergraduate, 2019 - 2020

Modern Fizik, Undergraduate, 2017 - 2018, 2016 - 2017

Fizikte Matematiksel Yöntemler II, Postgraduate, 2017 - 2018

Fizik I, Undergraduate, 2017 - 2018

Advising Theses

Akinci Ü., Determination of the magnetic properties by artificial neural networks and deep learning , Postgraduate, S.Saltık(Student), Continues

Akinci Ü., Magnetic properties of the nanoparticle arrays , Doctorate, N.Çam(Student), Continues

Akinci Ü., Skyrmiон phases in two dimensional magnetic materials , Doctorate, A.Akyıldız(Student), Continues

Akinci Ü., Gürültünün manyetik fazlara etkisi , Doctorate, G.Bayrak(Student), Continues
Akinci Ü., Skyrmion Phases in Magnetic Nanosystems , Doctorate, F.Karakoyun(Student), Continues
AKINCI Ü., Effects of the particle size and shape of the magnetic nanoparticles on the magnetic hyperthermia and magnetocaloric properties, Postgraduate, A.AKYILDIZ(Student), 2021
AKINCI Ü., Determination of the hysteresis characteristics of the magnetic binary alloys, Postgraduate, G.KARAKOYUN(Student), 2017
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Scientific Refereeing

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FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, National Scientific Refreed Journal, July 2017
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PHYSICA A: STATISTICAL MECHANICS AND ITS APPLICATIONS, Journal Indexed in SCI-E, June 2015
SUPERLATTICES AND MICROSTRUCTURES, Journal Indexed in SCI-E, March 2015
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, SCI Journal, January 2015
PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES, Journal Indexed in SCI-E, December 2014
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Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2:
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Non Academic Experience

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