

# Prof. GÜL GÜLPINAR

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: EYH-4288-2022

Yoksis Researcher ID: 144057

## Biography

Gül Gülpınar 14.11.1973 de İzmir'de doğmuştur. Lisans eğitimini 9 Eylül Üniversitesi Elektrik ve Elektronik Müh. bölümünde tamamlamıştır. Yüksek Lisans öğrenimini ise Ege Üniversitesi Nükleer Bilimler Enstitüsünde tamamlayarak doktora derecesini aynı üniversitede Fizik bölümünde 2005 yılında almıştır. Görevine Dokuz Eylül Üniversitesi Fizik Bölümü Matematiksel Fizik bölümünde devam etmektedir

## Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1999 - 2005

Postgraduate, Ege University, Nükleer Bilimler, Nükleer Bilimler Ana Bilim Dalı, Turkey 1995 - 1998

Undergraduate, Dokuz Eylül University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey 1991 - 1995

## Foreign Languages

English, C2 Mastery

## Dissertations

Doctorate, Zamana bağlı fiziksel sistemlerin denge dışı istatistiksel mekanik ile incelenmesi, Ege University, fen bilimleri enstitüsü, fizik, 2005

Postgraduate, Mikroişlemci destekli eurocrate kontrolcüsü ve scaler geliştirilmesi Developing eurocard controller and scaler, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Nükleer Bilimler Enstitüsü, 1998

## Research Areas

General Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

## Academic Titles / Tasks

Professor, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 2019 - Continues  
Assistant Professor, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 2009 - Continues  
Associate Professor, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 2012 - 2019  
Lecturer PhD, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 2005 - 2009  
Research Assistant, Dokuz Eylul University, Fen Fakültesi, Fizik Bölümü, 1998 - 2005  
Research Assistant, Ege University, Fen Bilimleri Enstitüsü, Nükleer Bilimler (YI) (Tezli), 1996 - 1998

## Courses

### Doctorate

Classical Electrodynamics II, Doctorate, 2021 - 2022

### Postgraduate

Computational Physics , Postgraduate, 2022 - 2023

### Undergraduate

KATIHAL FİZİĞİ II, Undergraduate, 2021 - 2022

Electromagnetic Theory II, Undergraduate, 2021 - 2022

Kathal fiziği I, Undergraduate, 2021 - 2022

ELECTROMAGNETIC THEORY I, Undergraduate, 2021 - 2022

## Supervised Theses

GÜLPINAR G., Equilibrium and non-equilibrium properties of spin-S transverse ising model, Postgraduate, F.KELEŞ(Student), 2023

GÜLPINAR G., Investigation of the kinetic behaviors of the spin systems in the neighbourhood of the equilibrium, Postgraduate, M.AĞARTIOĞLU(Student), 2012

GÜLPINAR G., The investigation of equilibrium and nonequilibrium phase transition properties of mixed Ising model, Postgraduate, Y.KARAASLAN(Student), 2012

GÜLPINAR G., Investigation of the kinetic behaviors of the spin systems in the neighbourhood of the equilibrium, Postgraduate, E.VATANSEVER(Student), 2011

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Dokuz Eylul University, March, 2020

Associate Professor Exam, Associate Professor Exam, Dokuz Eylul University, March, 2019

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

- I. **Relaxation dynamics of a mixed ferrimagnetic Ising system with random anisotropy**  
Karaaslan Y., GÜLPINAR G.  
European Physical Journal Plus, vol.140, no.1, 2025 (SCI-Expanded)
- II. **Geometrical aspects of the multicritical phase diagrams for the Blume–Emery–Griffiths model**  
ALATA N., ERDEM R., GÜLPINAR G.  
European Physical Journal Plus, vol.138, no.5, 2023 (SCI-Expanded)
- III. **Dynamic dipolar and quadrupolar susceptibilities for the spin-1 Blume-Emery-Griffiths model based on Onsager theory of irreversible thermodynamics**  
Pawlak A., ERDEM R., GÜLPINAR G.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.472, pp.86-95, 2019 (SCI-Expanded)
- IV. **High-frequency magnetic field on crystal field diluted  $S=1$  Ising system: magnetic relaxation near**

**continuous phase transition points**

GÜLPINAR G., ERDEM R.

CANADIAN JOURNAL OF PHYSICS, vol.96, no.12, pp.1321-1332, 2018 (SCI-Expanded)

- V. **Frequency Variation of the AC Order Parameter Susceptibility of the Metamagnetic Ising Model**  
GÜLPINAR G.  
ADVANCES IN CONDENSED MATTER PHYSICS, vol.2018, 2018 (SCI-Expanded)
- VI. **Acoustic Signatures of the Phases and Phase Transitions in the Blume Capel Model with Random Crystal Field**  
GÜLPINAR G.  
ADVANCES IN CONDENSED MATTER PHYSICS, vol.2018, 2018 (SCI-Expanded)
- VII. **Critical and multicritical behaviors of static and complex magnetic susceptibilities for the mean-field Blume-Capel model with a random crystal field**  
GÜLPINAR G., ERDEM R., Agartioğlu M.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.439, pp.44-52, 2017 (SCI-Expanded)
- VIII. **Spin-lattice relaxation within a dimerized Ising chain in a magnetic field**  
ERDEM R., GÜLPINAR G., Yalçın O., Pawlak A.  
JOURNAL OF APPLIED PHYSICS, vol.116, no.3, 2014 (SCI-Expanded)
- IX. **Critical Binder cumulant and universality: Fortuin-Kasteleyn clusters and order-parameter fluctuations**  
Malakis A., Fytas N. G., GÜLPINAR G.  
PHYSICAL REVIEW E, vol.89, no.4, 2014 (SCI-Expanded)
- X. **Anomalies in the multicritical behavior of staggered magnetic and direct magnetic susceptibilities of iron group dihalides**  
GÜLPINAR G., VATANSEVER E.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.22, pp.3784-3790, 2012 (SCI-Expanded)
- XI. **Effective-field theory with the differential operator technique for a kinetic Blume-Capel model with random diluted single-ion anisotropy**  
GÜLPINAR G., VATANSEVER E., Agartioğlu M.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.391, no.13, pp.3574-3584, 2012 (SCI-Expanded)
- XII. **Critical behavior of AC antiferromagnetic and ferromagnetic susceptibilities of a spin-1/2 metamagnetic Ising system**  
GÜLPINAR G., VATANSEVER E.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.6, pp.983-990, 2012 (SCI-Expanded)
- XIII. **Effects of the Quenched Random Crystal Field on the Dynamic Spin-1 Blume-Capel Model**  
GÜLPINAR G., VATANSEVER E.  
JOURNAL OF STATISTICAL PHYSICS, vol.146, no.4, pp.787-799, 2012 (SCI-Expanded)
- XIV. **Dynamics of the Blume-Capel model with quenched diluted single-ion anisotropy in the neighborhood of equilibrium states**  
GÜLPINAR G., İyikanat F.  
PHYSICAL REVIEW E, vol.83, no.4, 2011 (SCI-Expanded)
- XV. **Investigation of the effect of the off-diagonal Onsager rate coefficient on the relaxation dynamics of anhydrous dihalides of iron-group elements**  
GÜLPINAR G., Karaaslan Y.  
PHYSICS LETTERS A, vol.375, no.6, pp.978-983, 2011 (SCI-Expanded)
- XVI. **Quenched-vacancy induced spin-glass order**  
GÜLPINAR G., Berker A. N.  
PHYSICAL REVIEW E, vol.79, no.2, 2009 (SCI-Expanded)
- XVII. **The effect of competition between the frequency of the field and the frequency of the spin flipping on the kinetics of Ising metamagnet**  
GÜLPINAR G., Demirhan D., Buyukkilic F.

- PHYSICS LETTERS A, vol.373, no.5, pp.511-516, 2009 (SCI-Expanded)
- XVIII. **Critical behavior of sound attenuation in a metamagnetic Ising system**  
Gulpinar G.  
PHYSICS LETTERS A, vol.372, no.2, pp.98-105, 2008 (SCI-Expanded)
- XIX. **Investigation of the behavior of an Ising metamagnet under the influence of a field using Glauber dynamics**  
Gulpinar G., Demirhan D., Buyukkilic F.  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.383, no.2, pp.372-382, 2007 (SCI-Expanded)
- XX. **Relaxation dynamics of iron-group dihalides**  
Gulpinar G., Demirhan D., Buyukkilic F.  
PHYSICAL REVIEW E, vol.75, no.2, 2007 (SCI-Expanded)

### **Papers Published in Refereed Scientific Meetings**

- I. **Dynamic quadrupolar susceptibility for the Blume-Emery-Griffiths model**  
ERDEM R., GÜLPINAR G., Pawlak A.  
42nd Conference of the Middle-European Cooperation in statistical Physics, Lyon, France, 8 - 10 February 2017
- II. **Critical Behavior of Magnetic Relaxation in a Metamagnetic Ising Model**  
VATANSEVER E., GÜLPINAR G.  
18.th Statistical Physics Days, İstanbul, Turkey, 30 June - 02 July 2011
- III. **İki Farklı Tek İyon Anizotropisi İçeren Spin 1 ve Spin 2 Karışık Ising Modelinin Kritik Durulma Davranışı**  
GÜLPINAR G., VATANSEVER E., Ağartıoğlu M.  
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 November 2010
- IV. **Metamanyetik Ising Modelinin Kritik Manyetik Durulması**  
GÜLPINAR G., VATANSEVER E.  
17. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 November 2010
- V. **Dynamics of Blume-Capel model with bimodal crystal field**  
VATANSEVER E., GÜLPINAR G., Ağartıoğlu M.  
Turkish Physical Society 27. International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010
- VI. **Effective Field Theory on Blume Capel Model with Crystal Field Dilutence under a Time Dependent Oscillating Longitudinal Field**  
GÜLPINAR G., Ağartıoğlu M., VATANSEVER E.  
17. Statistical Physics Days, İstanbul, Turkey, 1 - 03 July 2010
- VII. **Investigation of the Kinetic Blume Capel Model with Crystal Field Randomness under the Influence of an oscillating magnetic field**  
GÜLPINAR G., VATANSEVER E.  
17. Statistical Physics Days, İstanbul, Turkey, 1 - 03 July 2010
- VIII. **Relaxation Theory of a Mixed Spin 1 and Spin 2 Ising System with Different Anisotropies**  
GÜLPINAR G., Ağartıoğlu M., VATANSEVER E.  
18.th Statistical Physics Days, İstanbul, Turkey, 30 June - 02 July 2010
- IX. **The Effect of Randomness in the Crystal Field on the Kinetics of Spin 1 Blume Capel in the Dynamical d T phase plane**  
GÜLPINAR G., Tuna Ö., VATANSEVER E.  
18. th Statistical Physics Days, İstanbul, Turkey, 30 June - 02 July 2010
- X. **Proje Yönlendirmeli Öğrenim ve Temel Bilgi Teknolojileri**  
ÖLMEZ M., DOĞAN H., ÖNAY A. B., BOYACIOĞLU EMİROĞLU H., GÜLPINAR G., Sarnel H., GÜZELİŞ C.  
Bilgi Teknolojileri Kongresi IV ve Akademik Bilişim 2006, Denizli, Turkey, 9 - 11 February 2006, pp.152-155
- XI. **Mühendislik Eğitiminde Proje Yönlendirmeli Öğrenim: Öğrenci Görüşleri**  
BOYACIOĞLU EMİROĞLU H., DOĞAN H., GÜLPINAR G., ÖNAY A. B., ÖLMEZ M., GÜZELİŞ C.

III. Aktif Eđitim Kurultayı, İzmir, Turkey, 3 - 04 June 2006, pp.79-88

XII. **Proje Yönlendirmeli Öğrenim ve Temel Bilgi Teknolojileri**

ÖLMEZ M., DOĞAN H., ONAY B., BOYACIOĞLU EMİROĞLU H., GÜLPINAR G., SARNEL H., GÜZELİŞ C.

Akademik Bilişim 2006 + Bilgi Teknolojileri Kongresi IV, Denizli, Turkey, 9 - 11 February 2006

## **Metrics**

Publication: 32

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