

## Lect. PhD NİGAR ALATA

### Personal Information

Office Phone: [+90 242 227 2057](tel:+902422272057) Extension: 2581

Email: [nigaralata@akdeniz.edu.tr](mailto:nigaralata@akdeniz.edu.tr)

Web: <https://avesis.akdeniz.edu.tr/nigaralata>

### International Researcher IDs

ORCID: 0000-0002-3194-5539

Publons / Web Of Science ResearcherID: I-7901-2017

Yoksis Researcher ID: 119422

### Education Information

Doctorate, Akdeniz University, Institute of Science, Fizik, Turkey 2014 - 2022

Undergraduate, Anadolu University, Faculty Of Economics, Maliye, Turkey 2006 - 2011

Masters (Non-Thesis), Pamukkale University, Fen Bilimleri, Fizik, Turkey 2009 - 2010

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2007 - 2009

Undergraduate, Gazi University, Fen Edebiyat Fakültesi, Fizik, Turkey 2001 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, FEN VE MÜHENDİSLİK BİLİMLERİNDE BİYOTEKNOLOJİ ALANINA YÖNELİK TÜBİTAK ARAŞ.PROJ.HAZ.EĞTM., TÜBİTAK, 2017

Foreign Language, INTERMEDIATE-UPPER INTERMEDIATE, ODTÜ Yabancı Diller Yüksekokulu, 2007

### Dissertations

Doctorate, SPİN-1 BLUME-EMERY-GRIFFITHS MODELİNİN RIEMANN GEOMETRİSİ ÇERÇEVESİNDE İNCELENMESİ, Akdeniz University, Institute of Science, Fizik, 2022

Postgraduate, Si(001)-(1\*2) Yüzeyi Üzerinde Bor Oksit Nanotelleri, Gazi University, Fizik, 2009

### Research Areas

Environmental Engineering, Environmental Technology, Water Pollution and Control, Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Food Engineering, Food Science, Food Additives, Food Technology, Sugars, Syrups, Starches and Candy, Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, General Physics, Statistical physics, thermodynamic and nonlinear dynamic systems, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Lecturer PhD, Akdeniz University, Fizik, 2013 - Continues

## Courses

Fizik, Undergraduate, 2024 - 2025

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

- I. **Geometrical aspects of the multicritical phase diagrams for the Blume–Emery–Griffiths model**  
Alata N., Erdem R., Gülpınar G.  
European Physical Journal Plus, vol.138, no.5, 2023 (SCI-Expanded)
- II. **Ruppeiner geometry of isotropic Blume-Emery-Griffiths model**  
Erdem R., Alata N.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, no.11, 2020 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of the mean and Gaussian curvatures for the equilibrium states in the Blume-Emery-Griffiths model**  
Alata N.  
XXI. International Congress on Mathematical Physics, Strasbourg, France, 1 - 06 July 2024
- II. **Geometrical Aspects of the Multicritical Phase Diagrams for the Blume-Emery-Griffiths Model**  
ALATA N., ERDEM R.  
The 46th Conference of the Middle European Cooperation in Statical Physics, Riga, Latvia, 11 - 13 May 2021, pp.79
- III. **"A geometrical perspective on the phase and phase transitions in a spin-1 Ising system"**  
ERDEM R., ALATA N.  
44th Conference of the Middle Eeuropean Cooperation in Statistical Physics, Münih, ALMANYA, 1-3 Mayıs 2019, pp.1-1, Münih, Germany, 1 - 03 May 2019, pp.1
- IV. **A geometrical perspective on the phase and phase transitions in a spin-1 Ising system**  
ERDEM R., ALATA N.  
44th Conference of the Middle Eeuropean Cooperation in Statistical Physics, Münih, Germany, 1 - 03 May 2019, pp.1
- V. **FIRST-PRINCIPLES STUDY OF BORON OXIDE NANOWIRES ON Si(001)-(1\*2) SURFACE**  
ALATA N., AYDIN S., ŞİMŞEK M.  
25. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 01 December 2008 - 05 December 2019, pp.330

## Scientific Research / Working Group Memberships

KUARK BİLİM TOPLULUĞU, AKDENİZ ÜNİVERSİTESİ, Turkey, www.kuark.org, 2011 - Continues

## Metrics

Publication: 7

## Congress and Symposium Activities

The 46th Conference of the Middle European Cooperation in Statistical Physics, Attendee, Riga, Latvia, 2021  
TÜRK FİZİK DERNEĞİ, Attendee, MUĞLA-BODRUM, Turkey, 2008