

# Prof. AZER HANMEHMETLİ

## Personal Information

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## Education Information

Doctorate, Azerbaycan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Doğrusal Olmayan Analiz, Azerbaycan 1993 - 1996

Undergraduate, Bakü Devlet Üniversitesi, Mekanik Ve Matematik, Matematik, Azerbaycan 1986 - 1993

## Dissertations

Doctorate, Hiperbolik denklemlerin yerel olmayan çekicilerinin incelenmesi, Azerbaycan Bilimler Akademisi, 1996

## Research Areas

Mathematics, Differential Equations, Real Functions, Natural Sciences

## Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2013 - Continues

## Advising Theses

HANMEHMETLİ A., Evrimsel operatörler ailesinin çekicileri, Postgraduate, T.URHAN(Student), 2016

HANMEHMETLİ A., Yarı doğrusal levha denkleminin uzun zaman dinamiği, Doctorate, S.YAYLA(Student), 2016

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

- I. **The Cahn-Hilliard/Allen-Cahn equation with inertial and proliferation terms**  
ŞEN Z., Khanmamedov A.  
Journal of Mathematical Analysis and Applications, vol.530, no.2, 2024 (SCI-Expanded)
- II. **Attractors for some models of the Cahn-Hilliard equation with the inertial term**  
Khanmamedov A.  
Nonlinearity, vol.36, no.2, pp.1120-1142, 2023 (SCI-Expanded)
- III. **On the two dimensional fast phase transition equation: well-posedness and long-time dynamics**  
Khanmamedov A.  
CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS, vol.60, no.5, 2021 (SCI-Expanded)
- IV. **On the 2D Cahn-Hilliard/Allen-Cahn equation with the inertial term**

- Khanmamedov A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.494, no.2, 2021 (SCI-Expanded)
- V. **Long-time dynamics of the Swift-Hohenberg equations**  
Khanmamedov A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.483, no.2, 2020 (SCI-Expanded)
- VI. **LONG-TIME DYNAMICS OF THE STRONGLY DAMPED SEMILINEAR PLATE EQUATION IN R-N**  
Khanmamedov A., YAYLA S.  
ACTA MATHEMATICA SCIENTIA, vol.38, no.3, pp.1025-1042, 2018 (SCI-Expanded)
- VII. **Global attractors for the 2D hyperbolic Cahn-Hilliard equations**  
KHANMAMEDOV A., YAYLA S.  
ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK, vol.69, no.1, 2018 (SCI-Expanded)
- VIII. **Attractors for the strongly damped wave equation with p-Laplacian**  
Khanmamedov A., ŞEN Z.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.40, no.12, pp.4436-4447, 2017 (SCI-Expanded)
- IX. **A unique continuation result for the plate equation and an application**  
ARAT Z., Khanmamedov A., SIMSEK S.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.39, no.4, pp.744-761, 2016 (SCI-Expanded)
- X. **EXISTENCE OF THE GLOBAL ATTRACTOR FOR THE PLATE EQUATION WITH NONLOCAL NONLINEARITY IN R-n**  
Khanmamedov A., SIMSEK S.  
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B, vol.21, no.1, pp.151-172, 2016 (SCI-Expanded)
- XI. **Exponential decay of solutions for the plate equation with localized damping**  
SIMSEK S., Khanmamedov A.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.38, no.9, pp.1767-1780, 2015 (SCI-Expanded)
- XII. **Strongly damped wave equation with exponential nonlinearities**  
Khanmamedov A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.419, no.2, pp.663-687, 2014 (SCI-Expanded)
- XIII. **Global attractors for the plate equation with nonlocal nonlinearity in unbounded domains**  
ARAT Z., Khanmamedov A., SIMSEK S.  
DYNAMICS OF PARTIAL DIFFERENTIAL EQUATIONS, vol.11, no.4, pp.361-379, 2014 (SCI-Expanded)
- XIV. **LONG-TIME DYNAMICS OF THE PARABOLIC p-LAPLACIAN EQUATION**  
GEREDELİ P. G., Khanmamedov A.  
COMMUNICATIONS ON PURE AND APPLIED ANALYSIS, vol.12, no.2, pp.735-754, 2013 (SCI-Expanded)
- XV. **Global attractor for the one dimensional wave equation with displacement dependent damping**  
Khanmamedov A.  
APPLIED MATHEMATICS LETTERS, vol.25, no.3, pp.439-442, 2012 (SCI-Expanded)
- XVI. **GLOBAL ATTRACTORS FOR STRONGLY DAMPED WAVE EQUATIONS WITH DISPLACEMENT DEPENDENT DAMPING AND NONLINEAR SOURCE TERM OF CRITICAL EXPONENT**  
Khanmamedov A.  
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS, vol.31, no.1, pp.119-138, 2011 (SCI-Expanded)
- XVII. **A global attractor for the plate equation with displacement-dependent damping**  
Khanmamedov A.  
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.74, no.5, pp.1607-1615, 2011 (SCI-Expanded)
- XVIII. **A strong global attractor for the 3D wave equation with displacement dependent damping**  
Khanmamedov A.  
APPLIED MATHEMATICS LETTERS, vol.23, no.8, pp.928-934, 2010 (SCI-Expanded)
- XIX. **Remark on the regularity of the global attractor for the wave equation with nonlinear damping**  
Khanmamedov A.  
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.72, pp.1993-1999, 2010 (SCI-Expanded)
- XX. **Global attractors for 2-D wave equations with displacement-dependent damping**  
Khanmamedov A.

- MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.33, no.2, pp.177-187, 2010 (SCI-Expanded)
- XXI. **Global attractors for one dimensional p-Laplacian equation**  
Khanmamedov A.  
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.71, pp.155-171, 2009 (SCI-Expanded)
- XXII. **LONG-TIME BEHAVIOUR OF DOUBLY NONLINEAR PARABOLIC EQUATIONS**  
Khanmamedov A.  
COMMUNICATIONS ON PURE AND APPLIED ANALYSIS, vol.8, no.4, pp.1373-1400, 2009 (SCI-Expanded)
- XXIII. **On a global attractor for the strong solutions of the 2-D wave equation with nonlinear damping**  
Khanmamedov A.  
APPLICABLE ANALYSIS, vol.88, no.9, pp.1283-1301, 2009 (SCI-Expanded)
- XXIV. **On the existence of a global attractor for the wave equation with nonlinear strong damping perturbed by nonmonotone term**  
Khanmamedov A.  
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.69, no.10, pp.3372-3385, 2008 (SCI-Expanded)
- XXV. **Long-time behaviour of wave equations with nonlinear interior damping**  
Khanmamedov A.  
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS, vol.21, no.4, pp.1185-1198, 2008 (SCI-Expanded)
- XXVI. **Finite dimensionality of the global attractors for von Karman equations with nonlinear interior dissipation**  
Khanmamedov A.  
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.66, no.1, pp.204-213, 2007 (SCI-Expanded)
- XXVII. **Global attractors for wave equations with nonlinear interior damping and critical exponents**  
Khanmamedov A.  
JOURNAL OF DIFFERENTIAL EQUATIONS, vol.230, no.2, pp.702-719, 2006 (SCI-Expanded)
- XXVIII. **Global attractors for the plate equation with a localized damping and a critical exponent in an unbounded domain**  
Khanmamedov A.  
JOURNAL OF DIFFERENTIAL EQUATIONS, vol.225, no.2, pp.528-548, 2006 (SCI-Expanded)
- XXIX. **Global attractors for von Karman equations with nonlinear interior dissipation**  
Khanmamedov A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.318, no.1, pp.92-101, 2006 (SCI-Expanded)
- XXX. **Existence of a global attractor for the parabolic equation with nonlinear Laplacian principal part in an unbounded domain**  
Khanmamedov A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.316, no.2, pp.601-615, 2006 (SCI-Expanded)
- XXXI. **Existence of a global attractor for the plate equation with a critical exponent in an unbounded domain**  
Khanmamedov A.  
APPLIED MATHEMATICS LETTERS, vol.18, no.7, pp.827-832, 2005 (SCI-Expanded)

### **Refereed Congress / Symposium Publications in Proceedings**

I. **Long Time BEHAVIOUR of the Plate Equation with Nonlocal Nonlinearity**

Yayla S., ARAT Z., HANMEHMETLİ A.

The 11th AIMS Conference on Dynamic Systems, Differential Equations and Applications, United States Of America, 1 - 05 July 2016

### **Supported Projects**

HANMEHMETLİ A., Project Supported by Higher Education Institutions, Yerel dissipatif terimlere sahip yarı doğrusal levha denkleminin yerel olmayan çekicileri, 2017 - 2018

## **Metrics**

Publication: 32

Citation (WoS): 356

Citation (Scopus): 321

H-Index (WoS): 10

H-Index (Scopus): 10