

Prof. AZER HANMEHMETLİ

Personal Information

Office Phone: [+90 312 297 7865](tel:+903122977865)

Email: azer@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/azer>

Education Information

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

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

Dissertations

Doctorate, Hiperbolik denklemlerin yerel olmayan çekicilerinin incelenmesi, Azerbaijan 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 FÜR 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