

Curriculum VitaeProfessor Konstantinos G. Efthimiadis

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DATE & PLACE OF BIRTH: 23 May 1960, Thessaloniki

STATUS: Married, one daughter

TITLES - ACADEMIC CAREER:

1983 B. Sc. in Physics

Department of Physics, Aristotle University of Thessaloniki

1991 Ph. D., Electric and magnetic properties of Ni₃Fe_cAl_{1-c} alloys Department of Physics, Aristotle University of Thessaloniki

1994 Lecturer, Magnetic Materials

Department of Physics, Aristotle University of Thessaloniki

2001 Assistant professor, Magnetic Materials

Department of Physics, Aristotle University of Thessaloniki

2008 Associate professor, Magnetic Materials

Department of Physics, Aristotle University of Thessaloniki

2018 Professor, Magnetic Properties of Matter

Department of Physics, Aristotle University of Thessaloniki

RESEARCH OBJECTS:

- A) Experimental study and characterization of the magnetic behavior of matter 48 peer-reviewed journal publications 60 conference publications
- B) Theoretical study and simulation of the magnetic behavior of matter 13 peer-reviewed journal publications 11 conference publications

RECENT PEER-REVIEWED JOURNAL PUBLICATIONS:

- Micromagnetic simulation of an antiferromagnetic particle
 N. Ntallis, K.G. Efthimiadis
 Computational Materials Science 97 (2015) 42
- Size dependence of the magnetization reversal in a ferromagnetic particle N. Ntallis, K.G. Efthimiadis Computational Materials Science 99 (2015) 373
- 3. Finite elements micromagnetic simulation of domain wall resonance N. Ntallis, K.G. Efthimiadis

 Journal of Applied Physics 120 (2016) 113904
- 4. A finite elements model including surface contribution in micromagnetic simulation

N. Ntallis, K.G. Efthimiadis

Finite Elements in Analysis and Design 121 (2016) 33

5. Magnetization reversal mechanisms under oblique magnetic fields

N. Ntallis, K.G. Efthimiadis

Journal of Magnetism and Magnetic Materials 425 (2017) 12

6. Investigating the archaeointensity determination success of prehistoric ceramics through a multidisciplinary approach: new and re-evaluated data from Greek collections

D. Kondopoulou, M. Gómez-Paccard, E. Aidona, Ch. Rathossi, C. Carvallo, E. Tema, K.G. Efthimiadis, G.S. Polymeris

Geophysical Journal International 210 (2017) 1450

7. Magnetic properties of co-precipitated hexaferrite powders with Sm-Co substitutions optimized with the molten flux method

C. Serletis, G. Litsardakis, E. Pavlidou, K.G. Efthimiadis

Physica B 525 (2017) 78

8. Finite element micromagnetic simulation of the magnetic domain structures in thin films with uniaxial anisotropy

K.G. Efthimiadis, N. Ntallis

Journal of Magnetism and Magnetic Materials 446 (2018) 245

9. On the role of the grain size in the magnetic behavior of sintered permanent magnets *K.G. Efthimiadis, N. Ntallis*

Physica B 531 (2018) 159

10. On the magnetization of an antiferromagnetic film with uniaxial magnetocrystalline anisotropy

K.G. Efthimiadis

Journal of Magnetism and Magnetic Materials 596 (2024) 171977

FUNDED R&D PROJECTS:

1. Study of the electronic and crystalline structure of the 3d transition metal alloys with Al admixtures.

General Secretariat for Research and Technology, Joint Research and Technology Programs Aristotle University of Thessaloniki - Technishe Universität Braunschweig (1994-1996)

2. Preparation and characterization of nanocrystalline magnetic materials.

General Secretariat for Research and Technology, Program for the Improvement of the Human Research Resources

Aristotle University of Thessaloniki (1994-1996)

3. Composite permanent magnets

General Secretariat for Research and Technology - Deutsches Zentrum für Luft- und Raumfahrt Aristotle University of Thessaloniki - Technishe Universität Braunschweig (1999-2001)

4 Development of the research network "Mag.net"

Research Committee of Aristotle University, Thematic Research Networks

Aristotle University of Thessaloniki (2003-2004)

5. Magnetic materials of technological interest

Ministry of National Education and Religious Affairs

Aristotle University of Thessaloniki (2004-2006)

6. Nanostructured magnetic materials for the development and optimization of new high sensitivity magnetic field sensors.

General Secretariat for Research and Technology.

Aristotle University of Thessaloniki (2006-2008).

7. Study - optimization of magnetic stimulation in the spine.

Finite elements magnetic simulation in the frame of a clinical study

Aristotle University of Thessaloniki (2007-2010)