Curriculum Vitae

Professor 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 $Ni_3Fe_cAl_{1-c}$ 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:

1. Micromagnetic simulation of an antiferromagnetic particle
N. Ntallis, K.G. Efthimiadis
Computational Materials Science 97 (2015) 42
2. 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)