

Dr Radu Tanasa

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Work Experience

- 2023-present **Associate professor**
"Alexandru Ioan Cuza" University of Iasi, Department of Physics
Bd. Carol I, 700506, Iasi, Romania
- 2014-2017 **Research associate**
University of Cambridge, Department of Engineering
Trumpington Street, CB2 1PZ, Cambridge, United Kingdom
- 2013-2023 **Lecturer**
"Alexandru Ioan Cuza" University of Iasi, Department of Physics
Bd. Carol I, 700506, Iasi, Romania
- 2008-13 **Assistant professor**
"Alexandru Ioan Cuza" University of Iasi, Department of Physics
Bd. Carol I, 700506, Iasi, Romania
- 2010-12 **Postdoctoral fellow**
"Alexandru Ioan Cuza" University of Iasi, Department of Physics
Bd. Carol I, 700506, Iasi, Romania
Project title: "Switching in highly correlated hysteretic systems" (CORELSYS)
- 2005-08 **Teaching Assistant**
"Alexandru Ioan Cuza" University of Iasi, Department of Physics
Bd. Carol I, 700506, Iasi, Romania

Education

- 2023 **Habilitation in Physics**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics
Thesis: Hysteresis processes in spin crossover compounds: experimental and theoretical studies
- 2004 - 06 **PhD, Molecular magnetism – photoswitchable materials**
Versailles Saint Quentin en Yvelines University, Groupe d'Etude de la Matiere Condensee – GEMAC, Distinction: *Tres honorable avec felicitations du jury*
Thesis: Analysis and study of the hysteretic properties in thermo- piezo- and photo-switchable spin-transition compounds
- 2002 - 07 **PhD, Magnetism of nano-structures**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Distinction: *Summa cum laude*
Thesis: Contributions to the study of magnetization processes in structured particulate ferromagnetic media
- 2002 - 04 **Master Degree in Physics**
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics
- 1998 - 02 **Bachelor Degree in Physics**, Specialization: *Physics*
"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics

Awards

- 2008 **Prize** for *best research group from a Romanian University* awarded by National Authority for Scientific Research (ANCS - Romania) at the "Top of excellence in research" contest

- 2007 **Excellence prize** for *outstanding contributions in physics of magnetic nanostructures* from National science and art foundation of Romanian Academy
- 2007 **European Doctorate in Molecular Magnetism diploma** awarded by MAGMANet (Molecular Approach to Nanomagnets and Multifunctional Materials – FP6 NoE 515767-2)

Research funding

Romanian CNCS (National Research Council) Grant PN-II-RU-PD-2009-1

'Switching in highly correlated hysteretic systems (CORELSYS)

80000 EURO (24 months from 1/8/2010)

Romanian CNCSIS (National University Research Council) TD grant

'Statistical interactions study in ordered nanomagnetic systems like perpendicular recording media'

6000 EURO (36 months from 1/1/2004)

French Minister of Research (Ministere délégué a la recherche) grant

'Analysis of hysteresis in spin crossover solids'

3000 EURO (12 months from 1/10/2005)

Apart from these 3 individual research grants, I have been also team member in 8 international grants and in 25 Romanian research projects.

Publications & conferences (statistics)

38 total publications, 17 first / corresponding author refereed publications

h-index 15

citations > 550

3 co-author book chapters

conferences presentations > 100 (> 20 invited & oral)

Web profile: www.researcherid.com/rid/B-4904-2008 <http://stoner.phys.uaic.ro/rtanasa.html>

Research skills

Experimental

- Magnetic characterization: VSM / AGM, QD-MPMS
- Optical characterization: transmission spectroscopy, reflectivity under pressure
- Cryogenic closed circuit systems: optical cryostat, Cryomech's 12 LHe plant
- Development of a magnetic tweezers for the study of rheology in biological tissues

Modeling and simulation

- IT: Fortran, C++, Maple, COMSOL, LabView, Python, OpenCV
- Methods: Monte Carlo, micromagnetics, FFT, master equation

Organisational

- Experience in scientific projects assessment (CNCSIS & UEFISCDI Romania, NSF Bulgaria)
- Member of the organizing comity of IEEE ROMSC conference
- Editorial Board of Journal of Advanced Research in Physics
- Development of a facility for spin transition materials' optical characterization

Affiliations

Institute of Electrical and Electronic Engineers IEEE - Magnetics Society – **Senior member**

Romanian Physical Society

CARPAT Excellence Center - "Alexandru Ioan Cuza" University