

## Personal information

**Name:** Laurențiu STOLERIU  
**Date and place of birth:** 02/06/1972, Iași, România  
**Current academic position:** Professor, Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania  
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## Education and professional experience

**2019** Professor, Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**2014** Habilitation with the thesis "*Contributions to modeling and simulation of physical processes with hysteresis*", Member of the Physics Doctoral School of a "Alexandru Ioan Cuza" University of Iași, Romania.  
**2007-2019** Associate professor, Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**2001-2007** Lecturer, Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**1996-2002** PhD in physics with the thesis "*The effect of reversible magnetization processes in the magnetization mechanism of a ferromagnetic particulate system*", Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**1999-2000** Romanian research grant at University of Central Lancashire, UK – theoretical studies and modeling of magnetization processes taking place during magnetic recording of data.  
**1998-2001** Assistant professor, Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**1999** Erasmus grant for research at Technische Universitat, Viena, Austria – theoretical studies on models describing magnetization processes in soft magnetic materials.  
**1996** Tempus grant at Universite de Versailles, Franța – experimental studies on the reversible component of magnetization processes.  
**1995-1996** Master studies on "*Electrical and magnetic properties of fine and ultra-fine structures*", Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**1990-1995** Bachelor diploma in Physical engineering, Faculty of Physics, "Alexandru Ioan Cuza" University of Iași, Romania.  
**1986-1990** Baccalaureate, National College, Iași. Romania.

## Ten selected published articles

1. Stoleriu, L; Enachescu, C, Elastic model for spin crossover nanoparticles in matrices, PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, Volume: 20, Issue: 1 Pages: 59-66, 2019
2. Stoleriu, L; Nishino, M; Miyashita, S; Stancu, A.; Enachescu, C, Cluster evolution in molecular three-dimensional spin-crossover systems, PHYSICAL REVIEW B, Vol.: 96(6), Art.: 064115, 2017
3. Bertoni, R; Lorenc, M; Cailleau, H; Tissot, A; Laisney, J; Boillot, ML; Stoleriu, L; Stancu, A; Enachescu, C; Collet, E, Elastically driven cooperative response of a molecular material impacted by a laser pulse, NATURE MATERIALS, Vol.: 15(6), p. 606, 2016
4. Stoleriu, L; Stancu, A; Chakraborty, P; Hauser, A; Enachescu, C, Analysis of first order reversal curves in the thermal hysteresis of spin-crossover nanoparticles within the mechanoelastic model, JOURNAL OF APPLIED PHYSICS, Volume: 117, Issue: 17, Article Number: 17B307, 2015

5. Stoleriu, L; Pinzaru, C; Stancu A Micromagnetic analysis of switching and domain structure in amorphous metallic nanowires, APPLIED PHYSICS LETTERS, Volume: 100, Issue: 12, Article Number: 122404, 2012
6. Enachescu, C; Stoleriu, L; Stancu, A; Hauser, A, Model for Elastic Relaxation Phenomena in Finite 2D Hexagonal Molecular Lattices, PHYSICAL REVIEW LETTERS, Vol.: 102(25), Art.: 257204, 2009
7. Stoleriu, L; Chakraborty, P; Hauser, A; Stancu, A; Enachescu, C, Thermal hysteresis in spin-crossover compounds studied within the mechanoelastic model and its potential application to nanoparticles, PHYSICAL REVIEW B, Volume: 84, Issue: 13, Article Number: 134102, 2011
8. Stoleriu, L; Stancu, A; Mitoseriu, L; Piazza, D; Galassi, C, Analysis of the switching properties of porous ferroelectric ceramics by means of the First-order Reversal Curves (FORC) diagrams, PHYSICAL REVIEW B, Vol.: 99(8), Art.: 08D702, 2006
9. Stoleriu, L; Andrei, P; Stancu, A, First order reversal curves identification procedures for vector models of hysteresis, JOURNAL OF APPLIED PHYSICS, Vol.: 103(7), Art.: 07D923, 2008
10. Stancu, A; Andrei, P; Stoleriu, L Magnetic characterization of samples using first- and second-order reversal curve diagrams, JOURNAL OF APPLIED PHYSICS, Vol.: 99(8) Art.: 08D702. 2006

### **Prizes and complementary academic responsibilities**

- 2020** Member of the National Scientific Research Council CNCS (O.M. 3463/09.03.2020).
- 2019** The "Ștefan Procopiu" Prize of the Romanian Academy.
- 2019** Chair of the editorial board for the 12-th International Symposium on Hysteresis Modeling and Micromagnetism (HMM 2019).
- 2019** Romanian representative in the management committee of the CA17123 COST Action (Ultrafast Opto-magneto-electronics For Non-dissipative Information).
- 2018** Expert for new projects evaluation and monitoring of ongoing projects for the European Union COST Program.
- 2018** Invited professor at Washington and Lee University, Lexington, SUA.
- 2016** Member of the National Scientific Research Council CNCS (O.M. 5817/24.11.2016)
- 2015** Research prize of the "Alexandru Ioan Cuza" University of Iași.
- 2015** Member of both Scientific Committee and Organization Committee of the 10-th International Symposium on Hysteresis Modeling and Micromagnetism (HMM 2015).
- 2012** Chairman of oral section "Hysteresis and micromagnetic modeling" at 12th Joint MMM-Intermag Conference, Vancouver, Canada.
- 2011** Senior IEEE member (member since 2002, secretary of the IEEE Romania Magnetic Society Chapter since 2007).
- 2005** Member of the Organizing Committee of the IEEE ROMSC Conference, each year between 2005 and 2019.