

## Personal skills and competences

Social skills and competences:	-Availability for teamwork regarding the research activities in the specific area of interest -Opening for interdisciplinary research activities
Computer skills and competences:	-Basic user: Matlab, C++ -Proficient user: The most Windows applications
Driving licenses:	Driving license category B

## Publications

- Research articles indexed in ISI Web of Knowledge:

1. Title: [The Temperature Dependent Anisotropy Influence on the Magnetic Behavior of Thin Films](#)  
Author(s): Birsan E.; Chis R.  
Source: ACTA PHYSICA POLONICA A Volume: 120 Issue: 6 Pages: 1065-1069 Published: DEC 2011
2. Title: [Numerical Study on the Magnetic Properties of the Single Layer Unpurified Thin Film](#)  
Author(s): Birsan, E; Chis, R  
Source: MODERN PHYSICS LETTERS B Volume: 24 Issue: 10 Pages: 971-977 Published: 2010
3. Title: [Magnetic Properties of Multilayer Thin Film with Ising-Like Ordering](#)  
Author(s): Birsan, E  
Source: ACTA PHYSICA POLONICA A Volume: 117 Issue: 3 Pages: 500-505 Published: 2010
4. Title: [Randomly Distributed Vacancies Influence on Magnetic Properties of the Bilayer Thin Film](#)  
Author(s): Birsan, E  
Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 22 Issue: 7 Pages: 711-714 Published: 2009
5. Title: [Monte Carlo Simulation on Triple Layer Thin Film Spin Lattice in Extended Heisenberg Model](#)  
Author(s): Birsan, E  
Source: ACTA PHYSICA POLONICA A Volume: 115 Issue: 3 Pages: 713-720 Published: 2009
6. Title: [Numerical Study on Magnetic Transitions in Double-Layer Spin Lattice Using Anisotropic Heisenberg Model](#)  
Author(s): Birsan, E  
Source: JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM Volume: 22 Issue: 4 Pages: 357-366 Published: 2009
7. Title: [Monte Carlo Approach on Double-Layer Magnetic Spin Lattice in Anisotropic Heisenberg Model](#)  
Author(s): Birsan, E; Niga, O  
Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 23 Issue: 2 Pages: 251-264 Published: 2009

8. Title: [Monte Carlo Study of Multilayer Films Using Anisotropic Extended Heisenberg Model with Dipolar Interaction](#)  
Author(s): Birsan, E; Dobrita, A; Chis, R  
Source: MODERN PHYSICS LETTERS B Volume: 23 Issue: 4 Pages: 643-653 Published: 2009
9. Title: [Double-layer thin films magnetic properties dependence on anisotropic Heisenberg model parameters](#)  
Author(s): Birsan, E  
Source: MODERN PHYSICS LETTERS B Volume: 22 Issue: 17 Pages: 1683-1694 Published: 2008
10. Title: [Monte Carlo study on induced antiferromagnetic phase in bilayer films using anisotropic extended Heisenberg model](#)  
Author(s): Birsan, E; Chis, R; Dobrita, A  
Source: ACTA PHYSICA POLONICA A Volume: 113 Issue: 6 Pages: 1701-1707 Published: 2008
11. Title: [Stability of metallic ferromagnetism: correlated hopping of electrons in mn\(4\)n](#)  
Author(s): Birsan, E; Candin, C  
Conference Information: National Conference on Applied Physics, Date: JUN 09-10, 2006 Galati ROMANIA  
Source: ROMANIAN JOURNAL OF PHYSICS Volume: 53 Issue: 1-2 Pages: 261-266 Published: 2008
12. Title: [Electronic correlation approach in itinerant ferromagnetism](#)  
Author(s): Birsan, E; Candin, C  
Conference Information: National Conference on Applied Physics, Date: JUN 09-10, 2006 Galati ROMANIA  
Source: ROMANIAN JOURNAL OF PHYSICS Volume: 53 Issue: 1-2 Pages: 267-272 Published: 2008
13. Title: [Monte Carlo study on bilayer thin films magnetic properties dependence with discontinuous anisotropy parameters](#)  
Author(s): Birsan, E  
Source: CENTRAL EUROPEAN JOURNAL OF PHYSICS Volume: 6 Issue: 2 Pages: 296-305 Published: 2008
14. Title: [Dimensional comparative study of magnetic nanoparticles dispersed in water or kerosene](#)  
Author(s): Racuciu, M; Creanga, DE; Apetroaie, N; Birsan E.  
Conference Information: 8th International Balkan Workshop on Applied Physics, Date: JUL 05-07, 2007 Constanta ROMANIA  
Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 10 Issue: 2 Pages: 280-283 Published: 2008
15. Title: [The superexchange interaction influence on the magnetic ordering in manganites](#)  
Author(s): Birsan, E  
Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 320 Issue: 5 Pages: 646-650 Published: 2008
16. Title: [Effect of randomness on magnetics and thermodynamics properties in double-exchange model](#)  
Author(s): Birsan, E  
Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 1 Issue: 6 Pages: 299-301 Published: 2007
17. Title: [The specific heat behavior of the Kondo lattice model in manganese oxides](#)  
Author(s): Birsan, E; Candin, C  
Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 7 Pages: 2237-2240 Published: JUL 2007
18. Title: [Magnetic transitions in metallic compounds determined by RKKY interactions](#)  
Author(s): Birsan, E; Candin, C; Racuciu, M  
Conference Information: 7th International Balkan Workshop on Applied Physics, Date: JUL 05-07, 2006 Constanta ROMANIA  
Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 4 Pages: 911-

915 Published: 2007

19. Title: [Comparative study on magnetic nanoparticles colloids stability](#)

Author(s): Racuciu, M; Creanga, D; Tupu, P; Birsan E.

Conference Information: 7th International Balkan Workshop on Applied Physics, Date: JUL 05-07, 2006

Constanta ROMANIA

Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 4 Pages: 946-948 Published: 2007

- Books:

1. Title: [Fizica – Fenomene electrice si magnetice](#)

Editor(s): Editura Universitatii Lucian Blaga din Sibiu, ISBN 978-606-12-0769-5

Published: 2014

2. Title: [Metode numerice în studiul ordonării magnetice](#)

Author(s): Eugen Birsan

Editor(s): Editura Universitatii Lucian Blaga din Sibiu, ISBN 978-606-12-0530-1

Published: 2013

3. Title: [Fizica generala – elemente de mecanica clasica](#)

Author(s): Eugen Birsan

Editor(s): Editura Universitatii Lucian Blaga din Sibiu, ISBN 978-606-12-0108-2

Published: 2011

4. Title: [Lucrari practice de fizica generala](#)

Author(s): Eugen Birsan, Mihaela Racuciu

Editor(s): Editura Universitatii Lucian Blaga din Sibiu, ISBN (10) 973-739-326-0; ISBN (13) 978-973-739-326-5

Published: 2006

5. Title: [Modele fizice in magnetismul temperaturilor scazute](#)

Author(s): Eugen Birsan

Editor(s): Editura Universitatii Lucian Blaga din Sibiu, ISBN 973-739-061-X

Published: 2005

6. Title: [Notiuni de fizica corpului solid](#)

Author(s): Gheorghe-Dorin Stoicescu, Mihaela Racuciu, Eugen Birsan

Editor(s): Editura Universitatii Lucian Blaga din Sibiu, ISBN 973-651-762-4

Published: 2003