

Mihai A. GÎRȚU

A. Monographs:

- “Hybrid Organic-Inorganic Nanostructured Magnets”,
M.A. Gîrțu and M. Fahlman,
in *Magnetic Nanostructures*, H.S. Nalwa, ed., 2nd ed., American Scientific Publishers, Los Angeles, 2009, pp. 359-433 (ISBN-10 1-58883-145-0, ISBN-13 978-1-58883-145-3).
 - “Hybrid Organic-Inorganic Nanostructured Magnets”,
M.A. Gîrțu
in *Magnetic Nanostructures*, H.S. Nalwa, ed., American Scientific Publishers, Los Angeles, 2002, pp. 359-405 (ISBN 1-58883-000-4).
-

B. Volumes edited:

- *Proceedings of the Nano-Sol-Net International Symposium: Trends in Organic Electronics and Hybrid Photovoltaics*, Eforie Nord, Romania, June 12-14, 2008, edited by M.A. Gîrțu and M. Fahlman, Ovidius University Press, Constanța 2008, (ISBN 978-973-614-414-1).
 - *Proceedings of the 9th International Balkan Workshop on Applied Physics, July 7-9, 2008*, V. Ciupină, H. Alexandru, **M.A. Gîrțu**, guest editors,
in *Journal of Optoelectronics and Advanced Materials* vol. 10, no. 11, 2008 (ISSN 1454-4164).
 - *Proceedings of the 8th International Balkan Workshop on Applied Physics, July 5-7, 2007*, V. Ciupină, H. Alexandru, **M.A. Gîrțu**, guest editors,
in *Journal of Optoelectronics and Advanced Materials* vol. 10, no. 1, 2008 (ISSN 1454-4164).
 - *Proceedings of the 7th International Balkan Workshop on Applied Physics, July 5-7, 2006*, V. Ciupină, **M.A. Gîrțu**, guest editors,
in *Journal of Optoelectronics and Advanced Materials* vol. 9, no. 4, 2007 (ISSN 1454-4164).
 - *Proceedings of the 6th International Balkan Workshop on Applied Physics, July 5-7, 2005*, V. Ciupină, H. Alexandru, **M.A. Gîrțu**, guest editors,
in *Journal of Optoelectronics and Advanced Materials* vol. 8, no. 1, 2006 (ISSN 1454-4164).
-

C. Articles published in ISI journals:

1. „The DFT rationalization of exchange and anisotropy in one-dimensional *d-p* magnets. The [Mn^{III}(porphyrin)][TCNE] case study.”
F. Cimpoesu, M. Ferbinteanu, B. Frecuș, and **M.A. Gîrțu**
Polyhedron **28**, 2039 (2009)
2. „Theoretical Study of Vibration Spectra of Sensitizing Dyes for Photoelectrical Converters Based on Ruthenium(II) and Iridium(III) Complexes”
B.F. Minaev, V.A. Minaeva, G.V. Baryshnikov, **M.A. Gîrțu**, and H. Ågren
Russian Journal of Applied Chemistry **82**, 1211 (2009)
3. „DFT Study of Electronic Properties, Structure and Spectra of Aryl Diazonium Cations”
B.F. Minaev, S.V. Bondarchuk, **M.A. Gîrțu**
J. Mol. Struct. (Theochem) **904**, 14 (2009)
4. „Synthesis and characterization of nanocrystalline γ -Y₂SiO₇ powder”
I. Carazeanu Popovici, V. Ciupină, G. Prodan, **M.A. Gîrțu**
Metalurgia International **14**, 25 (2009)

5. „Class A small area solar simulator for dye-sensitized solar cell testing”
A. Georgescu, G. Damache, **M.A. Gîrțu**
J. Optoelectr. Adv. Mater. **10**, 2996 (2008).
6. „Dye-sensitized solar cells based on nanocrystalline TiO₂ and natural pigments”
A. Dumbravă, A. Georgescu, G. Damache, C. Badea, I. Enache, C. Oprea, **M.A. Gîrțu**
J. Optoelectr. Adv. Mater. **10**, 2996 (2008).
7. „Structural characterisation of lanthanum aluminate synthesized by the Pechini method”
I. Carazeanu Popovici, V. Ciupina, G. Prodan, **M.A. Gîrțu**
J. Optoelectr. Adv. Mater. **10**, 2942 (2008).
8. „The analytical control of some photocromic materials”
I. Ioniță, A.-M. Albu, C. Rădulescu, E. I. Moater, G.V. Cimpoaia, **M.A. Gîrțu**
J. Optoelectr. Adv. Mater. **10**, 2864 (2008).
9. „HRTEM Study of nano-TiO₂ powder”
I. Carazeanu Popovici, **M.A. Gîrțu**, E. Chirilă V. Ciupină, G. Prodan
Revista de Chimie **59**, 413 (2008)
10. “Theoretical study of neutral and reduced hexacyanobutadiene”
C.I. Oprea, A. Damian, and **M.A. Gîrțu**
J. Mol. Struct. (Theochem) **804**, 111 (2007)
11. „Nanostructured Hybrid Organic-Inorganic Magnets – New Materials and New Potential Applications”
M.A. Gîrțu
Revue Roumaine de Sciences Techniques - Série Électrotechnique et Énergétique **52**, 131-142, (2007).
12. “Study on Poly(3,4-ethylene dioxothiophene)-Poly(styrenesulfonate) as a plastic counter electrode in dye sensitized solar cells”
A. Kanciurzevska, E. Dobruchowska, A. Baranzahi, E. Carlegrim, M. Fahlman, and **M.A. Gîrțu**
J. Optoelectr. Adv. Mater. **9**, 1052 (2007).
13. “Molecular dynamics simulation of defect formation in irradiated Cu”
D. Șopu, D.M. Popovici, and **M.A. Gîrțu**
J. Optoelectr. Adv. Mater. **9**, 799 (2007).
14. ”Spin density calculations for two electron-acceptor constituents of molecular magnets: tetracyanoethylene and hexacyanobutadiene”
C.I. Oprea, A. Damian, **M.A. Gîrțu**
J. Optoelectr. and Adv. Mat. **8**, 191 (2006).
15. ”Cole-Cole analysis of the ac magnetic susceptibility of some layered hybrid organic-inorganic magnets”
M.A. Gîrțu
J. Optoelectr. and Adv. Mat. **5**, 991 (2003).
16. ”Cole-Cole analysis of the dynamic susceptibility of a quasi-one-dimensional Mn(porphyrin)-based hybrid organic-inorganic magnet”
M.A. Gîrțu
J. Optoelectr. and Adv. Mat. **4**, 85 (2002).
17. “Magnetic behaviour of a 3-dimensional hybrid organic/inorganic magnet”
M.A. Gîrțu,
J. Optoelectr. and Adv. Mat. **3**, 113 (2001)
18. “Glassiness and canted antiferromagnetism in three geometrically frustrated triangular quantum Heisenberg antiferromagnets with weak Dzyaloshinskii-Moriya interaction”,
M.A. Gîrțu, C.M. Wynn, W. Fujita, K. Awaga and A.J. Epstein,
Phys. Rev. B **61**, 4117 (2000).

19. “Magnetic properties and critical behavior of $\text{Fe}(\text{TCNE})_2 \cdot x(\text{CH}_2\text{Cl}_2)$, a high T_c molecule-based magnet”,
M.A. Gîrțu, C.M. Wynn, J. Zhang, J.S. Miller and A.J. Epstein,
Phys. Rev. B **61**, 429 (2000).
20. “Coexistence of glassiness and canted antiferromagnetism in triangular quantum Heisenberg antiferromagnets with weak Dzyaloshinskii-Moriya interaction”,
M.A. Gîrțu, C.M. Wynn, W. Fujita, K. Awaga and A.J. Epstein,
Phys. Rev. B **57**, R11058 (1998).
21. “Reentrance in the $\text{Mn}(\text{tetracyanoethylene})_x \cdot y(\text{CH}_2\text{Cl}_2)$ high- T_c molecule-based ferrimagnet”,
C.M. Wynn, **M.A. Gîrțu**, J. Zhang, J.S. Miller and A.J. Epstein,
Phys. Rev. B **58**, 8508 (1998).
22. “Lattice and spin-dimensionality crossovers in a linear-chain molecule-based ferrimagnet with weak spin anisotropy”,
C.M. Wynn, **M.A. Gîrțu**, J.S. Miller and A.J. Epstein,
Phys. Rev. B **56**, 315 (1997).
23. “Magnetic phase diagram of a molecule-based ferrimagnet: Weak ferromagnetism and multiple dimensionality crossovers”,
C.M. Wynn, **M.A. Gîrțu**, J.S. Miller and A.J. Epstein,
Phys. Rev. B **56**, 14050 (1997).
24. “Canted antiferromagnetic and spin glass-like behavior in a family of two-dimensional organic/inorganic nanocomposites”,
M.A. Gîrțu, C.M. Wynn, W. Fujita, K. Awaga, and A.J. Epstein,
J. Appl. Phys. **83**, 7378 (1998).
25. “Effect of disorder on the linear and nonlinear magnetic susceptibilities of two manganese-porphyrin-based magnets”,
M.A. Gîrțu, C.M. Wynn, K-I. Sugiura, J.S. Miller and A.J. Epstein,
J. Appl. Phys. **81**, 4410 (1997).
26. “The influence of disorder on the magnetic phenomena in metalloporphyrin-based magnets”,
M.A. Gîrțu, C.M. Wynn, K-I. Sugiura, J.S. Miller and A.J. Epstein,
Synth. Met. **85**, 1703 (1997).
27. “Long-range magnetic order in the quasi-1D metalloporphyrin family of molecule-based magnets”,
C.M. Wynn, **M.A. Gîrțu**, K-I. Sugiura, E.J. Brandon, J.L. Manson, J.S. Miller and A.J. Epstein,
Synth. Met. **85**, 1695 (1997).
28. “Magnetic order and disorder in a family of layered organic/inorganic nanocomposites”,
M.A. Gîrțu, C.M. Wynn, W. Fujita, K. Awaga and A.J. Epstein,
Molec. Cryst. Liq. Cryst. **334**, 703 (1999).
29. “New high T_c molecule-based magnet - Magnetic behavior of $\text{M}(\text{TCNE})_2 \cdot x(\text{CH}_2\text{Cl}_2)$ ($\text{M} = \text{Mn}, \text{Fe}$)”,
M.A. Gîrțu, C.M. Wynn, C.R. Kmety, J. Zhang, J.S. Miller and A.J. Epstein,
Molec. Cryst. Liq. Cryst. **334**, 539 (1999).
30. “Magnetic ground state and its control in porphyrin-based magnets”,
A.J. Epstein, C.M. Wynn, **M.A. Gîrțu**, W.B. Brinckerhoff, K-I. Sugiura and J.S. Miller,
Molec. Cryst. Liq. Cryst. **305**, 321 (1997).
31. “Reversed (negative) magnetization for electrochemically deposited high- T_c thin films of chromium hexacyanide magnets”,
W.E Buschmann, S.C. Paulson, C.M. Wynn, **M.A. Gîrțu**, A.J. Epstein, H.S. White and J.S. Miller,
Chem. Mater. **10**, 1386 (1998).
32. “Magnetic dipole-dipole interactions and single-ion anisotropy: Revisiting a classical approach to magnets”,

C.M. Wynn, **M.A. Gîrțu**, W.B. Brinckerhoff, K-I. Sugiura, J.S. Miller and A.J. Epstein,
Chem. Mater. **9**, 2156 (1997).

33. “Magnetic field induced reversed (negative) magnetization for electrochemically-deposited 260 K T_c oxidized films of chromium cyanide magnets”,
W.E Buschmann, S.C. Paulson, C.M. Wynn, **M.A. Gîrțu**, A.J. Epstein, H.S. White and J.S. Miller,
Adv. Mat. **9**, 645 (1997).
-

D. Articles published in other journals:

1. “Quantum chemical calculations of three electron-acceptor molecules: TCNE, TCNQ and HCBBD”
C.I. Oprea, I. I. Carazeanu Popovici, **M.A. Gîrțu**,
Bulletin of the *Transilvania* University of Brasov (BRAMAT) **4**, 409-414 (2007)
2. „Sol-gel synthesis and characterization of lithium metatitanate, Li₂TiO₃,
I. Carazeanu Popovici, **M.A. Gîrțu**, E. Chirila, V. Popescu, V. Ciupina, G. Prodan
Bulletin of the *Transilvania* University of Brasov (BRAMAT) **4**, 187-192 (2007)
3. “Modeling of multichannel viscous flow”,
B. Nicolescu, E. Mamut, **M.A. Gîrțu**
Romanian Journ. Phys. **50**, 939 (2005).
4. “Metastability and disorder in manganese-porphyrin based hybrid organic-inorganic magnets”,
M.A. Gîrțu
Romanian Journ. Phys. **49**, 299 (2004).
5. “The virtual center for the development of communication and information field in the engineering society”,
V. Ciupina, C. Petrescu, G. Stefanescu, M.A. Della Giacomo, **M.A. Gîrțu**
Romanian Journ. Phys. **49**, 403-407 (2004).
6. “High-resolution transmission electron microscopy study of calcium phosphate apatites”,
I. Carazeanu, V. Ciupina, **M.A. Gîrțu**, G. Prodan
Romanian Journ. Phys. **49**, 445-454 (2004).
7. “Magnetic ordering in thin films of chromium hexacyanide magnets”,
M.A. Gîrțu
Romanian Journ. Phys. **48**, 161 (2003).
8. “Magnetic ordering in a family of 3-dimensional hybrid organic-inorganic magnets”
M.A. Gîrțu
Bulgarian J. Phys. **27**, 13 (2000).
9. ”Static scaling in molecular magnetism”
M.A. Gîrțu,
Ovidius Univ. Ann. Phys., **4**, 31 (2003).
10. ”Dynamic scaling in molecular magnetism”
M.A. Gîrțu,
Ovidius Univ. Ann. Phys., **3**, 45 (2002).
11. ”High-temperature one-dimensional ferrimagnetic behavior in manganeseporphyrin-based hybrid organic-inorganic compounds”
M.A. Gîrțu,
Ovidius Univ. Ann. Phys., **2**, 43 (2001).
12. “Probing reentrance in a spin glass-like molecular magnet using nonlinear ac magnetic susceptibility measurements”
M.A. Gîrțu,

Ovidius Univ. Ann. Phys., 1, 27 (2000).

E. Articles published in ISI proceedings:

1. "Dye sensitized solar cells with a plastic counter electrode of poly(3,4-ethylene dioxythiophene)-poly(styrenesulfonate)," A. Kanciurzevska, E. Dobruchowska, A. Baranzahi, E. Carlegrim, A. Fahlman, M. Fahlman, **M.A. Gîrțu**, in Organic Photovoltaics VIII, edited by Zakya H. Kafafi, Paul A. Lane, Proc. of SPIE Vol. 6656, 665611, (2007).
 2. „Dye-Sensitized Solar Cells with nanocrystalline TiO₂”
Ana Fahlman, A. Baranzahi, M. Fahlman, A. Damian, **M.A. Gîrțu**
Conference Proceedings 899 - Sixth International Conference of the Balkan Physical Union, edited by S. A. Cetin and I. Hikmet, American Institute of Physics, 2007, p. 757 (ISBN 978-7354-0404-5, ISSN 0094-243X)
 3. “DFT Calculations of a Metal-TCNE Complex”
Corneliu I. Oprea, Alina Damian, and **Mihai A. Gîrțu**,
Conference Proceedings 899 - Sixth International Conference of the Balkan Physical Union, edited by S. A. Cetin and I. Hikmet, American Institute of Physics, 2007, p. 716 (ISBN 978-7354-0404-5, ISSN 0094-243X)
 4. “Molecular Dynamics Simulations of the Time Evolution of Irradiation Induced Defects”
Daniel Șopu and **Mihai A. Gîrțu**
Conference Proceedings 899 - Sixth International Conference of the Balkan Physical Union, edited by S. A. Cetin and I. Hikmet, American Institute of Physics, 2007, p. 717 (ISBN 978-7354-0404-5, ISSN 0094-243X)
-

F. Articles published in other proceedings:

1. “Ab initio study of electron acceptor molecules for organic electronics and molecular magnetism”
C.I. Oprea, B. Frecuș, F. Moscalu and **M.A. Gîrțu**
Proceedings of the Nano-Sol-Net International Symposium “Trends in Organic Electronics and Hybrid Photovoltaics,” M.A. Gîrțu and M. Fahlman, eds., Ovidius University Press, Constanța, Romania, 2008, pp. 69-75, (ISBN 978-973-614-414-1).
2. “Synthesis of nanosized TiO₂ powders at low temperature”
I. Carazeanu Popovici, V. Ciupină, G. Prodan and **M.A. Gîrțu**,
Proceedings of the Nano-Sol-Net International Symposium “Trends in Organic Electronics and Hybrid Photovoltaics,” M.A. Gîrțu and M. Fahlman, eds., Ovidius University Press, Constanța, Romania, 2008, pp. 159-164, (ISBN 978-973-614-414-1).
3. “Homemade class A small area solar simulator for dye sensitized solar cell testing”
A. Georgescu, G. Damache, and **M.A. Gîrțu**,
Proceedings of the Nano-Sol-Net International Symposium “Trends in Organic Electronics and Hybrid Photovoltaics,” M.A. Gîrțu and M. Fahlman, eds., Ovidius University Press, Constanța, Romania, 2008, pp. 165-170, (ISBN 978-973-614-414-1).
4. “Natural extracts as pigments for dye sensitized solar cells”
A Dumbravă, C. Badea, A. Georgescu, G. Damache, C. Oprea and **M.A. Gîrțu**,
Proceedings of the Nano-Sol-Net International Symposium “Trends in Organic Electronics and Hybrid Photovoltaics,” M.A. Gîrțu and M. Fahlman, eds., Ovidius University Press, Constanța, Romania, 2008, pp. 171-177, (ISBN 978-973-614-414-1).
5. „Poly(3,4-ethylene dioxythiophene)-poly(styrenesulfonate) as a plastic counter electrode in TiO₂ dye sensitized solar cells,”
A. Kanciurzevska, E. Dobruchowska, A. Baranzahi, E. Carlegrim, A. Fahlman, M. Fahlman, C. Oprea, I. Carazeanu-Popovici, A. Dumbravă, **M.A. Gîrțu**,

- in Proceedings of the 22nd European Photovoltaic Solar Energy Conference, Milan, Italy, 3-7 september 2007, edited by G. Willeke, H. Ossenbrik, P. Helm, WIP-Renewable Energies, Germany, 2007, pp.651-654 (ISBN 3-936338-22-1).
6. “Density functional theory calculations of electron affinities and spin densities of two electron-acceptor molecules”
A. Damian, C.I. Oprea, and **M.A. Gîrțu**
“Convergence of micro-nano-biotechnologies” in seria “Micro and Nanoengineering,” Ed. Academiei, Bucuresti, 2007, pp. 9-15, ISBN (10) 973-27-1422-0 si ISBN (13) 978-973-27-1422-5
 7. “Molecular dynamics simulations of defect formation in irradiated solids”
D. Șopu and **M.A. Gîrțu**
“Convergence of micro-nano-biotechnologies” in seria “Micro and Nanoengineering,” Ed. Academiei, Bucuresti, 2007, pp. 50-58, ISBN (10) 973-27-1422-0 si ISBN (13) 978-973-27-1422-5.
 8. *Molecular dynamics simulation of defect formation in irradiated Ni*
D. Sopu, **M.A. Gîrțu**
in Proc. 5th Workshop on Mathematical Modeling of Environmental and Life Sciences Problems Constanta, Romania, Ed. S. Ion, G. Marinoschi si C. Popa, Editura Academiei, 2008, pp. 201-210 (ISBN 978-973-27-1641-0)
 9. “Model for molecular dynamic simulation of the radiation-induced defect formation in metals irradiated with low energy ions”,
D. Sopu, B. Nicolescu, **M.A. Gîrțu**,
in Proc. 4th Workshop on Mathematical Modeling of Environmental and Life Sciences Problems Constanta, Romania, Ed. S. Ion, G. Marinoschi si C. Popa, Editura Academiei, 2006, pp. 243-253 (ISBN (10) 973-27-1358-5; ISBN (12) 978-973-27-1358-7)
 10. „Molecular dynamics simulation for the determination of the phase diagram of noble gas systems”
D. Șopu, **M.A. Gîrțu**
Proceeding of the 3rd International Colloquium „Mathematics in Engineering and Numerical Physics,” Bucharest, Romania, 07 – 09 October 2004, 2006, pp. 184-187 .
 11. „Computer Simulations of the Energy Spectra of some Conjugated Polymers”
A. Damian, **M.A. Gîrțu**
Proceeding of the 3rd International Colloquium „Mathematics in Engineering and Numerical Physics,” Bucharest, Romania, 07 – 09 October 2004, 2006, pp. 196-199.
 12. „Computer Simulations of the Energy Spectrum of some Organic Planar Molecules”
E. Stroila, A. Damian, **M.A. Gîrțu**
Proceeding of the 3rd International Colloquium „Mathematics in Engineering and Numerical Physics,” Bucharest, Romania, 07 – 09 October 2004, 2006, pp. 180-183.
 13. „Hybrid organic–inorganic magnets”
M.A. Gîrțu
Proceedings of the International Scientific Conference UNITECH’02, Technical University of Gabrovo, 2002, pp. 680-684 (ISBN 954-683-167-0).
 14. “Photoluminescence analysis of $Ga_{1-x}Al_xAs/GaAs$ layers grown by LPE”,
R. Dima, A. Iova, **M.A. Gîrțu**, M. Buda,
in Proc. 15th Annual Semic. Conf., Oct. 1992, Sinaia, Romania, pp. 467-470.
 15. “Submicron layers of $Ga_{1-x}Al_xAs/GaAs$ grown by liquid phase epitaxy”,
I.B. Petrescu-Prahova, M. Buda, **M.A. Gîrțu**,
in Proc. 14th Annual Semic. Conf., Oct. 1991, Sinaia, Romania, pp. 335-338.
 16. “GaAs etching in dilute solutions of Al in Ga”,
M. Buda, C. Cotirlan, **M.A. Gîrțu**, I.B. Petrescu-Prahova,
in Proc. 14th Annual Semic. Conf., Oct. 1991, Sinaia, Romania, pp. 339-342.
-

G. Textbooks

- *Optica*, **M.A. Gîrțu**, Ovidius University Press, Constanta, 2003 (ISBN 973-614-060-1)
- *Optica – Îndrumar de laborator*, **M.A. Gîrțu** și C.I. Oprea, Ovidius University Press, Constanta, 2008 (ISBN 978-973-614-413-4).

- *Fizica 2000 – Teste pentru concursul de admitere la Facultatea de Medicină*, colectiv de autori, Ovidius University Press, Constanța, 2000 (ISBN 973-9367-89-5).
- *Fizica 1999 – Teste pentru concursul de admitere la Facultatea de Medicină*, colectiv de autori, Ovidius University Press, Constanța, 1999 (ISBN 973-9289-59-2).

8. PhD thesis:

- *Magnetic Ordering in Hybrid Organic/Inorganic Nanocomposites - Magnets by Design*, **M.A. Gîrțu**, Ohio State University, Columbus, OH, SUA, 1998.

A. Invited talks at international conferences

1. „Renewable energy Sources – The case for third generation photovoltaics”, 6th International Student Conference of the Balkan Physical Union, Bodrum, Turkey, 21-24 August 2008.
 2. „Molecular Dynamics Simulations of Nanofluid Flow in Microchannels – Boundary Conditions” 5th International Balkan Workshop on Applied Physics,” Constanța, Romania, 05 – 07 July. 2004
 3. „Relaxation and Critical Dynamics in Systems with Disorder:”, Meeting of the IEEE Magnetic Society Chapter of the Romania Section, Iasi, Romania, June 11-12, 2004
 4. „Disorder in Organic-Inorganic Nanostructured Magnets” (S1-L15) 4th International Balkan Workshop on Applied Physics,” Constanța, Romania, 25 – 27 Sept. 2003
 5. „Organic-Inorganic nanostructured Magnets- Perspectives and Applications,” International Summer School on „Computational Modeling of Combustion and Multiphase Flows in Energy Systems, Neptun, Romania, 21 – 26 Iulie 2003
 6. „Organic Magnetic Materials” Spring School on the Science and Applications of Conjugated Polymers and Related Materials, Sienna, Italia, 25 – 30 Mai 2003
 7. „Magnetic Molecules & Molecule-Based Magnets”, CAMM Spring School: An Introduction to Molecular Electronics Materials, Linkoping, Suedia, 22-24 Mai 2002
 8. “Coexistence of glassiness and canted antiferromagnetism in triangular quantum Heisenberg antiferromagnets with weak Dzyaloshinskii-Moriya interaction” (O2-01), March Meeting of the American Physical Society, Los Angeles, CA, March 16-20, 1998.
-

B. Research seminars

1. “Thrid generation photovoltaics - Hybrid organic-inorganic solar cells” Department of Chemistry, **University of Cyprus**, Nicosia, Cipru, 29 October 2008
2. “High Tc hybrid organic-inorganic magnets” prezentat la Department of Physics and Measurement Technology (IFM), **Linkoping University, Linkoping, Sweden**, 15 April 2004.
3. “Organic and Hybrid organic-inorganic magnets,” prezentat Department of Science and Technology (ITN), **Linkoping University, Norrkoping campus, Norrkoping, Sweden**, 14 April 2004.
4. “Magnetic Molecules & Molecule-based Magnets,” prezentat la Department of Physics and Measurement Technology (IFM), in cadrul cursului CAMM, **Linkoping University, Linkoping, Sweden**, 24 May 2002
5. “Hybrid organic-inorganic magnets – Magnets by design,” prezentat la Department of Physics and Measurement Technology (IFM), **Linkoping University, Linkoping, Sweden**, 6 September 2001.
6. “Hybrid organic-inorganic magnets – Magnets by design,” prezentat Department of Science and Technology (ITN), **Linkoping University, Norrkoping campus, Norrkoping, Sweden**, 5 September 2001.
7. “Magnetic properties of hybrid organic-inorganic magnets,” prezentat la Department of Physics, **Comenius University, Bratislava**, Slovacia 3 May 2000.
8. “Coexistence of disorder-free glassiness and canted antiferromagnetism in triangular quantum Heisenberg antiferromagnets”, prezentat la Department of Physics, **The Ohio State University, SUA**, 14 July 1997.