PERSONAL INFORMATION

Maria Ruxandra Costescu

Affiliation
National Institute of Materials Physics, Atomiștilor 405A, 077125 Măgurele-Ilfov, Romania
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ruxandra.costescu@infim.ro

Gender Female | Date of birth 22/03/1977 | Nationality Romanian

WORK EXPERIENCE

April 2010 – present

Scientific Researcher

National Institute of Materials Physics,405A Atomistilor Street, 077125, Magurele, Romania, http://www.infim.ro

- Director of reseach project (CNCSIS/CNCS RP 11/2010) dedicated to installing, testing and implementing a new Molecular Beam Epitaxy growth chamber (for III-V semiconductor materials) for complex surface science system;
  C.S.III researcher in a Surface and Interface Science group focused on thin layer growth by Molecular Beam Epitaxy; Surface and interface characterization by Auger and XPS spectroscopy, Reflection High Energy Electron Diffraction-RHEED, Low Energy Electron Diffraction-LEED, Scanning Tunneling Microscopy-STM;
  User Class 1000/100 Cleanroom

Business or sector R&D

May 2007 – December 2008

Postdoctoral Researcher

Leibniz Institute for Solid State and Materials Research Helmholtzstraße 20, 01069 Dresden, Germany, http://www.ifw-dresden.de

- Investigation of the effect of illumination on the rolling-up process of micro- and nanotubes formed from strained InGaAs/GaAs thin layers by etching in HF solution;
  Realization of heterogeneously etched regions on samples processed with various structures and a high degree of control over the positioning of rolled-up InGaAs/GaAs nanotubes on GaAs substrates using illumination by microscope
  Other experience: Growth monitorization/characterization by RHEED

Business or sector R&D

October 2004 - April 2007

Postdoctoral Researcher

Max Planck Institute for Solid State Research, Heisenbergstraße 1, 70569 Stuttgart, Germany, http://www.fkf.mpg.de

- Operation of MBE system for III-V semicondctor materials at MPI Stuttgart;
  Installation of a new annex for Ge in the MBE system and realization of rolled-up nanotubes with very small diameter by selective etching with Br from mixed Si-Ge with GaAs structures;
  Optimization of the optical microscopy technique for *in situ* monitorization of the roll-up process for micro- and nanotubes during HF etching

Business or sector R&D

July 1997 - September 2004

Research Assistant

Materials Science Department/Coordinated Science Laboratory, University of Illinois Urbana-Champaign, 1304 W. Green St., Urbana, IL 61801 SUA, http://www.illinois.edu

- Doctoral thesis research into the physics of phonons involved in transport on the nanoscale, especially the effect of the resistance introduced by interfaces in thermal transport. The study included details on the 3 and time-domain thermoreflectance techniques for measuring nanoscale thermal transport, together with thermal conductivity data for dense and porous hydrogen silsesquioxane (HSQ) thin films, SiO_2 thin films, at

TiN/MgO(001), TiN/MgO(111) andTiN/Al_2O_3 (0001) interfaces, as well as W/Al_2O_3 multilayers grown by atomic layer deposition W/Al_2O_3, Re/Al_2O_3 and W/B layers obtained by magnetron sputtering.
Other experience: ion beam evaporation; photolithography, mask design, wet etching techniques, Rutherford backscattering spectrometry (RBS), variable angle spectroscopic ellipsometry, x ray diffraction, x ray reflectivity, transmission electron microscopy, optical microscopy; molecular dynamics simulations
Business or sector R&D, University

September 1998 - December 1998

Research assistant, Internship

APL Engineered Materials, Urbana, IL 61801 USA ,
http://aplmaterials.herokuapp.com

- Sample processing and characterization, in charge of technique development in a sol-gel project, part of a collaboration between the Department of Materials Science at University of Illinois and APL Engineered Materials – follow-up of a student internship (between May and August 1998)

Business or sector R&D, Industry

EDUCATION AND TRAINING

August 1999 – May 2006

M.Sc./Ph.D. (combined Masters and Doctoral degree)

University of Illinois at Urbana Champaign, USA, State university

Materials Science and Engineering (Research topics: Thermal conductivity of thin films, Thin film growth and characterization, Semiconductors)

August 1995 – May 1999

Bachelor of Science

3.73/4

University of Illinois at Urbana Champaign, USA, State university

Materials Science and Engineering - concentration Electronic Materials

PERSONAL SKILLS

Mother tongue: Romanian, English as native speaker

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	B2	B2	A1	A1	A2
English	C2	C2	C2	C2	C2
German	A2	B1	A1	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills: Able to communicate and collaborate highly efficiently; Co-learning; Active listening; Experience with coordination and cofacilitation of meetings and workshops; Experienced public speaker

Organisational / managerial skills

Long-term experience with: working in collaborative settings; skills- and information-sharing; organizing in communities, non-profit groups, non-hierarchical consensus-based decision making process. *Cofounder and president, 1998-2002, vicepresident 2002-2004, *Romanian Student Club* at University of Illinois Urbana-Champaign; *Cofounder, 1998, *Campus Vegetarian Society* at University of Illinois Urbana-Champaign; *Student Board member, treasurer and Building Committee president, 1998, Program Committee president, 2000, and co-president 2001-2002 and Student Board president 2002, *University YMCA*, Urbana-Champaign, U.S.; *Member, Board of Directors, *Agora Lab and Class Foundation*, Urbana, U.S. (alternative science education and model laboratory for learning through experiment and debate), 2004-present; *Organizer, web administrator, vice-president *Romanian Vegetarian Society*, 2007-2016; *Coordinator *School Another Way*, *Researchers Night, Summer School of Science and Technology* and other institute-wide activities with school children for the Institute of Materials Physics, 2012-present.

Job-related skills

Expertise in ultrahigh vacuum methods, thin film deposition, thin film characterization methods including thermal transport measurements, electron microscopy, surface science techniques

Extensive experience with Microsoft Office, LaTeX, AutoCAD, Adobe PageMaker, Adobe Photoshop, C/C+/Fortran programming

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Other skills

Experienced English-Romanian-English translator/interpreter; Experienced childcare provider (various childcare jobs 1993-2000, volunteer at Center for Women in Transition, Champaign, U.S., 1994-1995); Experience with plant-based cooking/catering for events; Experience with Web design/administration

Driving licence

B (Romania), D (U.S. – Illinois)

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences

An average of over 30 citations per item. Publication highlights: *Science*, *Physical Review B*, *Surface Science*, *Materials*, *Applied Surface Science*. List in Annex
List of Presentations and Conferences in Annex
List of Projects as Director in Annex

Seminars
Honours and awards
Memberships
References
Citations
Courses
Certifications

Awards: Keiser Fund Scholarship from Department of Materials Science and Engineering, University of Illinois Urbana-Champaign, 1996-1999; Office of International Student Affairs Scholarship, University of Illinois, 1996-1999; John W. Price Award for Volunteer Service to International Understanding, 2002; Silver Graduate Student Award from the Materials Research Society, MRS Spring Meeting 2003; "IN HOC SIGNO VINCES" 2010 Award (in Math and Natural Sciences) from the Romanian National Council if Scientific Research in Higher Education (CNCSIS); Award for Best Young Researcher in 2010 from the State Department of Education, the Romanian Research and Design Patronage and the Romanian Academy

927 total Citations, of which 884 citations excluding self-citations;
Hirsch index: WoS 10 / Google Scholar h 15, i10 12

ANNEXES

- major projects;
- list of publications in ISI journals;
- list of book chapters;
- list of patents;
- list of presentations/conferences

Major projects:

Programme/Project	**Position held, *amount***	**Amount, EUR**	**Period:**
"Setup of an MBE facility for synthesis of III-V semiconductor films. Study of structure, electronic and thermal transport, and magnetism of interfaces and heterostructures of low-dimensional systems", CNCSIS/CNCS RP 11/2010	Director, *510 000 RON*	112 000	2010-2012
EC Horizon „Researchers Night" H2020-MSCA-NIGHT projects: *HSciRO* *Do-Re-Mi-RO* *ReCoN-nect* *ReCoNnect 2*	INCDFM Coordinator within National Consortium, *~35 000 EUR*	Project total (INCDFM): 128 000 (6 500) 95 250 (3 750) 133 550 (3 150) 301 100 (21 700)	 2018-2020 2020-2021 2021-2022 2022-2024

Papers:

1. *Thermal conductivity and sound velocities of hydrogen-silsesquioxane low-k dielectrics*, Costescu R.M., Bullen A.J., Matamis G., O'Hara K.E., and Cahill D.G., **Phys. Rev. B** 65 (9), 094205 (2002).
2. *Thermal conductance of epitaxial interfaces*, Costescu R.M., Wall M.A., and Cahill D.G., **Phys. Rev. B** 67 (5), 054302 (2003).
3. *Ultra-low thermal conductivity in W/Al_2O_3 nanolaminates*, R. M. Costescu, D. G. Cahill, F. H. Fabreguette, Z. A. Sechrist, S. M. George **Science** 303, 989-990 (2004).
4. *Rolled-Up Nanotech: Illumination-Controlled Hydrofluoric Acid Etching of AlAs Sacrificial Layers*, Ruxandra M. Costescu, Christoph Deneke, Dominic J. Thurmer and Oliver G. Schmidt, **Nanosc. Res. Lett.** 4 (12), 1463-1468 (2009).
5. *Atomic structure and magnetic properties of cobalt doped ZnO thin films prepared by the sol-gel method*, J. Neamtu, G. Georgescu, T. Malaeru, N.G. Gheorghe, R. M. Costescu, I. Jitaru, J. Ferre, D. Macovei, C.M. Teodorescu, **Digest J. Nanomater. Biostr.** 5, 873-885 (2010).
6. *Structural investigations of Ge nanoparticles embedded in an amorphous SiO_2 matrix,* I. Stavarache, A.-M. Lepadatu, N.G. Gheorghe, R.M. Costescu, G. Stan, D. Marcov, A. Slav, G. Iordache, T. F. Stoica, V. Iancu, V. S. Teodorescu, C. M. Teodorescu, and M. L. Ciurea, **J. Nanopart Res.** 13 (1), 221-232 (2011).

7. *Enhanced contamination of Si(001) when analyzed by AES with respect to XPS,* N.G. Gheorghe, G.A. Lungu, R.M. Costescu, D.G. Popescu, C.M. Teodorescu, ***Optoel. Adv. Mater. - Rapid Commun.*** **6** (2), 508-513 (2011).
8. *Significantly different contamination of atomically clean Si(001) when investigated by XPS and AES,* N.G. Gheorghe, G.A. Lungu, R.M. Costescu, C.M. Teodorescu, **phys. stat. sol. (b)** 248 (8), 1919-1924 (2011).
9. *Illumination-dependent HF Etching of AlAs Sacrificial Layers for the Formation of "Rolled Up" Nanotubes from Strained InGaAs/GaAs Films*, R. M. Costescu, Physics Conference TIM-10, **AIP Conf. Proc. 1387**, 179-185 (2011).
10. *Fe/Si(001) Ferromagnetic Layers: Reactivity, Local Atomic Structure and Magnetism*, G. A. Lungu, R. M. Costescu, M. A. Husanu, N. G. Gheorghe, Physics Conference TIM-10, **AIP Conf. Proc. 1387**, 203-207 (2011).
11. *Successful Cleaning and Study of Contamination of Si(001) in Ultrahigh Vacuum*, N. G. Gheorghe, G. A. Lungu, M. A. Husanu, R. M. Costescu, Physics Conference TIM-10, **AIP Conf. Proc. 1387**, 218-225 (2011).
12. *Reactivity, magnetism and local atomic structure in ferromagnetic Fe layers deposited on Si(001),* N.G. Gheorghe, M.A. Husanu, G.A. Lungu, R.M. Costescu, D. Macovei, D.G. Popescu, C.M. Teodorescu, **Dig. J. Nanomater. Biostr. 7**, 373-384 (2012).
13. *Atomic structure and magnetism of PLD deposited TiO_2: Fe*, R.M. Costescu, G.A. Lungu, G. Socol, N.G. Gheorghe, D. Macovei, C.C. Negrila, C. Logofatu, M.A. Husanu, D.G. Popescu, C.A. Tache, C.M. Teodorescu, **Dig. J. Nanomater. Biostr. 7** (1), 73-78 (2012).
14. *Atomic structure and reactivity of ferromagnetic Fe deposited on Si(001)*, N.G. Gheorghe, M.A. Husanu, G.A. Lungu, R.M. Costescu, D. Macovei, C.M. Teodorescu, **J. Mater. Sci. 47** (4), 1614-1620 (2012).
15. *Epitaxial ferromagnetic samarium and samarium silicide synthesized on Si(001)*, R.M. Costescu, N.G. Gheorghe, M.A. Husanu, G.A. Lungu, D. Macovei, I. Pintilie, D.G. Popescu, C.M. Teodorescu, **J. Mater. Sci. 47** (20), 7225-7234 (2012).
16. *Structure, reactivity, electronic configuration and magnetism of samarium atomic layers deposited on Si(001) by molecular beam epitaxy*, N.G. Gheorghe, G.A. Lungu, M.A. Husanu, R.M. Costescu, D. Macovei, C.M. Teodorescu, **Appl. Surf. Sci**. **267**, 106-111 (2013).
17. *Room temperature ferromagnetic, anisotropic, germanium rich FeGe(001) alloys*, G.A. Lungu, N.G. Apostol, L.E. Stoflea, R.M. Costescu, D.G. Popescu, C.M. Teodorescu, **Materials 6**, 612-625 (2013).
18. *Growth mechanisms and band bending in Cu and Pt on Ge(001) investigated by LEED and photoelectron spectroscopy*, L.C Tanase, A.E. Bocirnea, A.B. Serban, L.E. Abramiuc, I.C. Bucur, G.A. Lungu, R.M. Costescu, C.M. Teodorescu, **Surface Science 653**, 97-106 (2016).
19. *Long-range magnetic interaction in MnxGe1-x: structural, spectromicroscopic and magnetic investigations*, G.A. Lungu, N.G. Apostol, L.E. Stoflea, R.M. Costescu, D.G. Popescu, C.M. Teodorescu, **J. Mater. Sci. 52**, 3309-3320 (2017).
20. *Structural and magnetic properties of Ni nanofilms on Ge(001) by molecular beam epitaxy*, Amelia Elena Bocirnea, Ruxandra Maria Costescu, Iuliana Pasuk, George Adrian Lungu, Cristian Mihail Teodorescu, **Appl. Surf. Sci. 424**, 337-344 (2017).
21. *Band bending at magnetic Ni/Ge(001) interface investigated by X-ray photoelectron spectroscopy*, Amelia Elena Bocirnea, Liviu Cristian Tanase, Ruxandra Maria Costescu, Nicoleta Georgiana Apostol, George Adrian Lungu, Cristian Mihail Teodorescu, **Appl. Surf. Sci. 424**, 269-274 (2017).
22. *Low-energy electron diffraction from ferroelectric surfaces: Dead layers and surface dipoles in clean Pb (Zr, Ti)O3 (001)*, Cristian M. Teodorescu, Lucian Pintilie, Nicoleta G. Apostol, Ruxandra M. Costescu, George A. Lungu, Luminita Hrib, Lucian Trupină, Liviu C. Tănase, Ioana C. Bucur, and Amelia E. Bocirnea, **Phys. Rev. B 96**, 115438 (2017).
23. *Triggering surface ferroelectric order in Pb(Zr,Ti)O3(001) by deposition of platinum*, Ioana C. Bucur, Liviu C. Tănase, Laura E. Abramiuc, George A. Lungu, Cristina Chirilă, Lucian Trupină, Nicoleta G. Apostol, Ruxandra M. Costescu, Raluca F. Negrea, Lucian Pintilie, **Appl. Surf. Sci . 432**, 27-33 (2018).
24. *Room temperature ferromagnetism and its correlation to ferroelectricity of manganese embedded in lead zirco-titanate*, Bucur, IC, Apostol, NG, Abramiuc, LE, Tanase, LC, Tache, CA, Lungu, GA, Costescu, RM, Chirila, CF, Trupina, L, Pintilie, L, Teodorescu, CM, **Thin Sol. Films 669**, 440-449 (2019).

25. *Growth of Ag(111) on Si(111) with nearly flat band and abrupt interface*, Bocirnea, AE, Costescu, RM, Apostol, NG, Teodorescu, CM, **Appl. Surf. Sci . 473**, 433-441 (2019).
26. *Nanostructured palladium doped nickel electrodes for immobilization of oxidases through nickel nanoparticles*, Barsan, MM, Matei, E, Enculescu, M, Costescu, R, Preda, N, Enache, TA, Enculescu, I, Diculescu, VC, **Electrochim. Acta 315**, 102-113 (2019).
27. *Polarization-dependent magnetism of the Ni/BaTiO3 interface*, Bocirnea, AE, Popescu, DG, Chirila, C, Costescu, RM, Kuncser, V, Stancu, V, Trupina, L, Pasuk, I, Vlaicu, AM, Husanu, MA, **Phys. Rev. Materials 4**, 034402 (2020).
28. *Magnetic properties of BaNi x Fe 12-x O 19 (x=0.0-1.0) hexaferrites, synthesized by citrate -gel auto -combustion and sintered by conventional and spark plasma methods*, Cernea, M, Greculeasa, SG, Radu, R, Aldica, G, Ganea, P, Surdu, VA, Tanasa, ET, Cioangher, M, Iacob, N, Costescu, RM, **J. Alloys Compunds 831**, 154850 (2020).
29. *Antimicrobial Properties of TiO2 Microparticles Coated with Ca- and Cu-Based Composite Layers*, Bucuresteanu, R., Ionita, M., Chihaia, V., Ficai, A., Trusca, R.D., Ilie, C.I., Kuncser, A., Holban, A.M., Mihaescu, G., Petcu, G., Nicolaev, A., Costescu, R.M., Husch, M., Parvulescu, V., Ditu, L.M., **Int. J. Mol. Sci. 23**, 6888 (2022).
30. *Photocatalytic and Antibacterial Properties of Doped TiO2 Nanopowders Synthesized by Sol−Gel Method*, Silviu Preda, Jeanina Pandele-Cușu, Simona Viorica Petrescu, Elena Mădălina Ciobanu, Gabriela Petcu, Daniela C. Culiță, Nicoleta G. Apostol, Ruxandra M. Costescu, Iuliana Raut, Mariana Constantin, Luminița Predoană, **Gels 8**, 673 (2022).

Book chapters:
1. N.G. Gheorghe, M.A. Husanu, G.A. Lungu, D. Macovei, V. Kuncser, R.M. Costescu, D.G. Popescu, C.M. Teodorescu, *Growth and characterization of ultrathin Fe magnetic layers deposited on atomically clean Si(001) by molecular beam epitaxy*, **Nanomaterials and nanostructures for various applications**, G. Brezeanu, H. Iovu, C. Cobianu, D. Dascălu (Eds.), Ed. Academiei Române, Bucharest, pp. 225-244 (2012), ISBN: 978-973-27-2169-8.

Patents:
1. "*Vanadium oxide doped nanoparticles, doped with magnetic metals, for applications in hyperthermic therapy of malign tumors*", C.M. Teodorescu, M.R. Costescu, M.A. Husanu, N.G. Gheorghe, G.A. Lungu, a 2010 01032 (RO-BOPI 12/2012 A61K, p. 16)

Conferences/presentations:
1. "Intercalation of carbon monoxide in sub-monolayer graphene on Pt(001)-hex", A. Nicolaev, N.G. Apostol, R.M. Costescu, D. Lizzit, E. Tosi, C. Bucur, C.A. Tache, A.G. Lungu, A. Pena, P. Lacovig, S. Lizzit, C.M. Teodorescu, **The 13th International Symposium of the Romanian Catalysis Society ROMCAT**, Baile Govora, Romania, June 22-24, 2022 (oral presentation)
2. "Surface reactions of CO and H2 on 0.5 ML Gr/Pt(001)-hex at room temperature", N.G. Apostol, A. Nicolaev, R.M. Costescu, D. Lizzit, E. Tosi, C. Bucur, P. Lacovig, S. Lizzit, C.M. Teodorescu, **The 13th International Symposium of the Romanian Catalysis Society ROMCAT**, Baile Govora, Romania, June 22-24, 2022 (oral presentation)
3. "Adsorption, dissociation and desorption of carbon monoxide on Pt(001)-hex", R.M. Costescu, N.G. Apostol, A. Nicolaev, D. Lizzit, E. Tosi, C. Bucur, C.A. Tache, A.G. Lungu, A. Pena, P. Lacovig, S. Lizzit, C.M. Teodorescu, **The 13th International Symposium of the Romanian Catalysis Society ROMCAT**, Baile Govora, Romania, June 22-24, 2022 (oral presentation)
1. "Growth mechanisms of silver on Si(111) investigated by XPS and LEED", Ruxandra M. Costescu, Amelia E. Bocirnea, Liviu C. Tanase, Iuliana Pasuk, Bogdana Borca, Cristian M. Teodorescu, **9th International Conference of Advanced Materials ROCAM**, Bucuresti, Romania, 10-14th July 2017 (poster)
2. "Band bending at magnetic Ni/Ge(001) interface investigated by X-ray photoelectron spectroscopy", Amelia-Elena Bocîrnea, Liviu Cristian Tănase, Ruxandra Maria Costescu, Nicoleta Georgiana Apostol, Cristian Mihail Teodorescu, **9th International Conference of Advanced Materials ROCAM**, Bucuresti, Romania, 10-14th July 2017 (oral presentation)
3. "Structural and magnetic properties of Ni nanofilms grown by molecular beam epitaxy on heated Ge(001) substrates", Amelia Bocirnea, Ruxandra Costescu, Adrian Lungu, Iuliana Pasuk, Dan Macovei, Cristian Teodorescu, **11th International Conference On Physics Of Advanced Materials (ICPAM-11)**, Cluj-Napoca, Romania, 8-14th September 2016 (oral presentation)

4. " Growth mechanisms and band bending effects in Ni on Ge(001) investigated by XPS and LEED", Amelia Elena Bocirnea, Maria Ruxandra Costescu, Liviu Cristian Tanase, Nicoleta Georgiana Apostol, Cristian Mihail Teodorescu, **11th International Conference On Physics Of Advanced Materials (ICPAM-11),** Cluj-Napoca, Romania 8-14th September 2016 (oral presentation)
5. "Photoemission and X-ray absorption fine structure studies of ferromagnetic MnGe(001) alloys", Gheorghe N.G., Lungu, G.A., Popescu D.G., Costescu, R.M., Macovei D., Teodorescu C.-M., **11th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures**, Oct. 3-7 2011, St. Petersburg, Russia (poster)
6. "Atomic structure and reactivity of ferromagnetic Fe deposited on Si(001)", Nicoleta G. Gheorghe, Marius A. Husanu, George A. Lungu, Ruxandra M. Costescu, Dan Macovei, Cristian M. Teodorescu, **European Materials Research Society 2011 Spring Meeting**, May 10-12 2011, Nice, France (poster)
7. "Illumination-dependent HF etching of AlAs sacrificial layers for the formation of 'rolled up' nanotubes from strained InGaAs/GaAs films", R.M. Costescu, **Conferinta de Fizica TIM-10**, Nov. 25-27 2010, Timisoara, Romania (poster)
8. "Ab initio studies of magnetism in bulk materials using local density approximation and generalized gradient approximation as exchange-correlation functionals. A comparative study", M. Husanu, R. Costescu, G.A. Lungu, N. Gheorghe and C.M. Teodorescu, **Conferinta de Fizica TIM-10**, Nov. 25-27 2010, Timisoara, Romania (poster)
9. "Surface structure, interface reactivity and magnetism of Sm/Si(001)", N.G. Gheorghe, R.M. Costescu, M.A. Husanu, G.A. Lungu, C.M. Teodorescu, **Conferinta de Fizica TIM-10**, Nov. 25-27 2010, Timisoara, Romania (poster)
10. "Successful cleaning and study of contamination of Si(001) in ultrahigh vacuum", N.G. Gheorghe, A. Lungu, M. Husanu, R. Costescu, poster, **Conferinta de Fizica TIM-10**, Nov. 25-27 2010, Timisoara, Romania (poster)
11. "'Rolling up' nanotubes from strained InGaAs/GaAs films: a study of the illumination-dependent etching with hydrofluoric acid of the sacrificial AlAs layer", R.M. Costescu, **Conferinta Nationala de Fizica**, Sept. 23-25 2010, Iasi, Romania (poster)
12. "The effects of carbon nanotubes isolation on the Fano profile of metallic tubes.", M. A Husanu, A.G. Lungu, R. Costescu, C.M. Teodorescu, **Conferinta Nationala de Fizica**, Sept. 23-25 2010, Iasi, Romania (poster).
13. "Structure, reactivity and magnetism of 3d and 4f metals deposited as thin layers on atomically clean Si(001) by molecular beam epitaxy", N.G. Gheorghe, R.M. Costescu, M.A. Husanu, G.A. Lungu, D. Macovei, C.M. Teodorescu, **RomCat 2010**, June 23-26 2010, Iasi, Romania (invited talk)
14. "New approaches to roll-up semiconductors into nanotubes", R. Songmuang, Ch. Deneke, R. Costescu, and O.G. Schmidt, **DFG Schwerpunkttreffen Nanodrähte und Nanoröhren**, May 2-4 2005, Fulda, Germany (poster)
15. "Thermal conductance of epitaxial interfaces", R. M. Costescu, David G. Cahill, **Materials Research Society 2003 Spring Meeting**, Apr. 21-25 2003, San Francisco, SUA (oral presentation)
16. "Thermal conductance of epitaxial interfaces", R. M. Costescu, **Materials Research Society 2003 Spring Meeting**, Apr. 21-25 2003, San Francisco, SUA (special presentation for Graduate Student Award session)
17. "Thermal conductance of epitaxial interfaces", R. M. Costescu, David G. Cahill, **50th Midwest Solid State Conference**, University of Illinois Urbana-Champaign, Oct. 18-20 2002, Urbana, SUA (oral presentation)
18. "Thermal conductivity and elastic constants of porous HSQ low-k dielectrics", R. M. Costescu, David G. Cahill, **14th Thermophysical Properties Symposium**, June 29 2000, Boulder, SUA (oral presentation)