

PERSONAL INFORMATION

Carmen-Georgeta RISTOSCU

 National Institute for Lasers, Plasma and Radiation (INFLPR), 409 Atomistilor street, PO Box MG-36, Magurele, Ilfov, RO-077125, Romania
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Sex Female | Date of birth April 8, 1972 | Nationality Romanian

POSITION

Senior Scientific Researcher 1st degree

WORK EXPERIENCE

April 3, 2009 - present

Senior Scientific Researcher 1st degree

National Institute for Lasers, Plasma and Radiation (INFLPR), 409 Atomistilor street, PO Box MG-36, Magurele, Ilfov, RO-077125, Romania; www.inflpr.ro

- (i) main field: Experimental optics, spectroscopy, laser and plasma, Surface studies with laser, Surface processing, laser interactions, lasers and plasma physics; nanostructured thin films technology, surface physics and engineering
- (ii) other fields: Biophysics and biomedicine; nano- bio- technologies, gas- and bio- sensors, plasma and laser theory
- (iii) current research interest: Laser processing of thin films (PLD/RPLD, MAPLE, LDW, C-PLD, C-MAPLE, LAM), modification and characterization of nanostructured thin coatings; optoelectronics and sensors, nanopowders generation and characterization, biomimetic metallic implants

July 15, 2004 – April 2, 2009

**Laser Department, "Laser - Surface - Plasma Interactions" Laboratory (LSPI),
Senior Scientific Researcher 3rd degree**

National Institute for Lasers, Plasma and Radiation (INFLPR), 409 Atomistilor street, PO Box MG-36, Magurele, Ilfov, RO-077125, Romania; www.inflpr.ro

- Experimental optics, spectroscopy, laser and plasma, Laser processing of thin films, reactive pulsed laser deposition (PLD/RPLD) and laser interactions; lasers and plasma physics; nanostructured thin films technology, surface physics and engineering.

August 1, 2000 - July 14, 2004

**Laser Department, "Laser - Surface - Plasma Interactions" Laboratory (LSPI),
Scientific Researcher**

National Institute for Lasers, Plasma and Radiation (INFLPR), 409 Atomistilor street, PO Box MG-36, Magurele, Ilfov, RO-077125, Romania; www.inflpr.ro

- Experimental optics, spectroscopy, laser and plasma, Laser processing of thin films, reactive pulsed laser deposition (PLD/RPLD) and laser interactions; lasers and plasma physics; nanostructured thin films technology, surface physics and engineering.

May 16 – November 15, 2005

**Laser Department, "Laser - Surface - Plasma Interactions" Laboratory (LSPI),
NATO-CNR fellowship**

Department of Physics, University of Lecce, Italy

- Pulsed laser deposition of thin metalling films with applications in optical gas sensors; synthesis and charactersation of Mg coatings with potential applications in free electron lasers

May – November, 2001

Marie Curie fellowship for PhD students

Institute of Electronic Structure and laser (IESL), Foundation for Research and Technology-Hellas(FORTH), P.O. Box 1385, Vassilika Vouton, GR-711 10 Heraklion, Crete, Greece

- - Pulsed laser deposition of AlN and C thin films with short and ultra-short laser pulses: plasma characterisation by optical emission spectroscopy and time of flight

EDUCATION AND TRAINING

May 30, 2003 - November 1, 2007

PhD, Exact Sciences, Physics

University of Bucharest, Physics Department

- *Synthesis, processing and characterization of thin films by high - intensity laser radiation*

October 1995 – June 1996

MSc

University of Bucharest, Physics Department

- *The diagnostic of LTE plasmas using the bi-atomic molecular spectra*

October 1990 – June 1995

BSc

University of Bucharest, Physics Department

- *The luminescent RF plasma*

September 1986 – June 1990

Graduate student

Highschool of Mathematics and Physics no. 4, Bucharest

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

Communication skills

- I work well both in a team and alone, good communication skills with collaborators in research projects

Organisational / managerial skills

Management of projects::

- CEx 1428/24.03.2006: Nanostructured thin films of aluminum nitride for advanced applications in micro- and opto-electronics, medicine and biology
- CEx 5870/18.09.2006: Tailoring of ultrashort laser pulses for nanostructured thin films of advanced materials
- RIG 982424/2006: Advanced gas sensors with pulsed laser deposited nanostructured metal oxides
- IDEI 547/16.01.2009: Highly reliable metallic photocathodes obtained by pulsed laser technologies for free electron lasers
- TE 82/05.10.2011: Pulsed laser nanostructuring, assembling and immobilization of biomaterials
- COST MP 1208 "Developing the Physics and the Scientific community for Inertial Confinement Fusion at the time of NIF ignition" Romanian national representative (June 2, 2013 – June 1, 2017)
- PCCA 244/2014: Biocomposite materials obtained by methods specific to metallurgy for bone substitution (BONY), INFLPR responsible
- PED 146/2017: Smart surface functionalization of titanium and stainless steel implants (January 3, 2017 – September 30, 2018), INFLPR responsible
- COST CA21128 - PROton BORon Nuclear fusion: from energy production to medical applications (PROBONO), Romanian national representative, 24/10/2022 - 23/10/2026

Job-related skills

- Design, construction and optimization of laser installations and laser interaction installations
- Reviewer for international ISI journal and research projects
- Guest Editor: Nanomaterials, Metals, Crystals, Coatings

Digital competence

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

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Driving licence

B

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

- 130 papers in international journals, 63 in international proceedings and 25 book chapters (ISI Web of Knowledge, Web of Science, October 13, 2025)
Independent citations in international journals and books: 2404; average citations per item 14.89; h index 28 (ISI Web of Knowledge, Web of Science, October 13, 2025)
- 14 submitted patent proposals among which 3 granted
UEFISCDI ID (UEF-ID) DIN BRAINMAP U-1700-038U-9577 <https://www.brainmap.ro/carmen-georgeta-ristoscu>
Scopus Author ID, <https://www.scopus.com/authid/detail.uri?authorId=6603816346>
ORCID: <https://orcid.org/0000-0002-8433-9217>
Researcher ID: <http://www.researcherid.com/rid/B-8628-2011>
Google Scholar: <https://scholar.google.com/citations?hl=ro&user=e0bEohcAAAAJ&ORCID>
ScholarGPS® ID: 74659504569135: <https://scholargps.com/scholars/74659504569135/carmen-ristoscu>

- co-author of over 200 presentation in international conferences in the field

Participation in PhD juries:

- July 1, 2010, Sorin Grigorescu: Etudes des couches nano-structurées obtenues par ablation laser pour les implants biomimétiques avancées, University of Strasbourg, France
- April 5, 2013, Catalin Ducu: "Studies by X-ray diffraction and complementary techniques of thin films and superficial layers with applications in advanced technologies", Bucharest University, Romania
- November 20, 2015, Denis Negrea: "Studies of nano-crystalline powders characterization by X-ray techniques", Bucharest University, Romania
- November 20, 2015, Sorin Moga: "Studies of thin films characterization using X-ray diffraction techniques", Bucharest University, Romania
-July 6, 2017, Dan-Nicolae BECHERESCU (BARBU): "Synthesis and investigation of thin layers obtained by High Power Pulsed Magnetron Sputtering and Pulsed Laser Deposition for development of metal-composite devices" Bucharest University, Romania
- May 6, 2019, Gabriela – Irina NEGUT (UNGUREANU): FILME SUBȚIRI DE BIOTICLE ȘI NANOPARTICULE MAGNETICE DEPUSE PRIN TEHNICI LASER PULSATE AVANSATE (Bioglass thin films and magnetic nanoparticles obtained by advanced pulsed laser techniques), Bucharest University, Romania
- September 26, 2024, Maria BĂDICEANU: BIO SI METAMATERIALE NANOSTRUCTURATE PENTRU APLICAȚII ÎN BIOMEDICINĂ ȘI ECOLOGIE (Nanostructured bio- and meta- materials for applications in biomedicine and ecology), Bucharest University, Romania

- member of the INFLPR Scientific Council (since June 2022, secretary)
- member of the INFLPR Comission for Ethics (since December 2022)
- member of international advisory committee of International Conference on Photo-Excited Processes and Applications - ICPEPA-10, ICPEPA 11, ICPEPA 12
- founder member of the "Laser, Plasma, Radiation – Science and Technology" Association (vicepresident)

Date: 13.10.2025

Publication in ISI journals:

1. "A method of vibrational temperature determination in electric arc plasma using the CN molecule spectra"
I. Iova, M. Bazavan, C. Biloiu, M. Ganciu, Carmen Ristoscu, Maria-Cristina Penache, D. Penache
Romanian Reports in Physics, Vol. **49**, Nos. 3-4, 245-248 (1997)
2. "New Results In Direct Laser Implantation with Phosphorous of P-Type Silicon Wafers"
I. N. Mihailescu, Enikő György, Carmen Ristoscu, Clementina Timus, A. M. Prokhorov, Galina N. Mikhailova, Anna Szekeres, S. Simeonov, E. Kafedjiiska
Romanian Reports in Physics, vol. **43**, nos. 1-2, pages 9-18, February 1998
3. "Theoretical modelling of phenomena in Pulsed Laser Deposition Process: application to Ti targets ablation in low-pressure N₂"
J. Neamtu, I. N. Mihailescu, Carmen Ristoscu, J. Hermann
Journal of Applied Physics, **86**(11), 6096-6106 (1999)
4. "Persistent extinction effect in fluorescent photosensitive glass under pulsed excimer laser irradiation"
E. Pavel, I. N. Mihailescu, A. Hening, Carmen Ristoscu, V. I. Vlad, Laura Tugulea
Journal of Optoelectronics and Advanced Materials, vol. **1**, no. 2, pp. 71-74 (1999)
5. "Pulsed Laser Deposition of Barium Hexaferrite (BaFe₁₂O₁₉) Thin Films"
M. Koleva, P. Atanasov, R. Tomov, O. Vankov, C. Martin, C. Ristoscu, I. N. Mihailescu, D. Iorgov, S. Angelova, Ch. Ghelev, N. Mihailov
Applied Surface Science **154-155**(1-4), 485-491 (2000)
6. "Structural comparison between La_{0.60}Y_{0.07}Ca_{0.33}MnO_{3-δ} bulk and Pulsed Laser Deposited thin films"
V. S. Teodorescu, L. C. Nistor, M. Valeanu, C. Ghica, C. Sandu, C. Ristoscu, I. N. Mihailescu, J. P. Deville, J. Werckmann
Journal of Magnetism and Magnetic Materials, **211**(1-3), 54-60 (2000)
7. "Growth and characterization of pulsed laser deposited Mn-Zn ferrite thin films"
M. Koleva, R. Tomov, S. Zotova, P. Atanasov, C. Martin, C. Ristoscu, I. Mihailescu
Vacuum, **58**, 294-299 (2000)
8. "Structural investigation of a pulsed laser deposited La_{0.06}Y_{0.07}Ca_{0.33}MnO₃ thin film by high resolution transmission electron microscopy"
C. Ghica, L. C. Nistor, V. S. Teodorescu, M. Valeanu, C. Ristoscu, I. N. Mihailescu, J.-P. Deville, J. Werckmann
Journal of Optoelectronics and Advanced Materials, **2**, 65-72 (2000)
9. "Conduction via deep levels in Si p-n junctions prepared by direct laser implantation of Phosphorous"
Simeon Simeonov, Elisaveta Kafedjiiska, Anna Szekeres, Carmen Ristoscu, Enikő György, Ion N. Mihailescu, Galina N. Mikhailova
Journal of Optoelectronics and Advanced Materials, **2**, 99-102 (2000)
10. "Pulsed laser deposition of hydroxyapatite thin films on Ti-5Al-2.5Fe substrates with and without buffer layers"
V. Nelea, C. Ristoscu, C. Chiritescu, C. Ghica, I. N. Mihailescu, H. Pelletier, P. Mille, A. Cornet
Applied Surface Science, **168**(1-4), 127-131 (2000)
11. "Sr-ferrite thin films grown on sapphire by pulsed laser deposition"
M. Koleva, S. Zotova, P. Atanasov, R. Tomov, C. Ristoscu, V. Nelea, C. Chiritescu, E. Gyorgy, C. Ghica, I. N. Mihailescu,
Applied Surface Science, **168**(1-4), 108-113 (2000)
12. "Influence of the deposition configuration on the composition, structure and morphology of La_{0.6}Y_{0.07}Ca_{0.33}MnO_{3-δ} thin films obtained by pulsed laser deposition"
C. Ghica, M. Valeanu, L. C. Nistor, V. Teodorescu, C. Sandu, C. Ristoscu, I. N. Mihailescu, J. Werckmann, G. Schmerber, J.-P. Deville
International Journal of Inorganic Materials, **3**, 1253-1256 (2001)
13. "Role of laser pulse duration and gas pressure in deposition of AlN thin films"
Eniko Gyorgy, Carmen Ristoscu, I. N. Mihailescu, Argyro Klini, N. Vainos, C. Fotakis, C. Ghica, G. Schmerber, J. Faerber
Journal of Applied Physics, **90**(1), 456-461 (2001)
14. "Trap - assisted tunneling at temperatures near to 77 K in laser processed Si n+-p junctions"
S. S. Simeonov, E. Kafedjiiska, A. Szekeres, C. Ristoscu, E. Gyorgy, I. N. Mihailescu
Journal of Applied Physics, **90**(2), 860-865 (2001)
15. "La₂O₃-doped BaTiO₃ thin film obtained by pulsed laser deposition"
M. Cernea, I. N. Mihailescu, C. Martin, Carmen Ristoscu, Monica Iliescu
Journal of Modern Optics, **48**, 2185-2189 (2001)
16. "Mechanical properties improvement of pulsed laser deposited hydroxyapatite thin films by high energy ion beam implantation"
V. Nelea, H. Pelletier, D. Muller, N. Broll, P. Mille, C. Ristoscu, I. N. Mihailescu,
Applied Surface Science **186**, 483-489 (2002)
17. "Plume emissions accompanying 248 nm laser ablation of graphite in vacuum: effects of pulse duration"
Frederik Claeysens, Michael N.R. Ashfold, Emmanuel Sofoulakis, Carmen Ristoscu Demetrios Anglos, Costas Fotakis
Journal of Applied Physics, **91**(9), 6162-6172 (2002)
18. "Calcium phosphate thin film processing by pulsed laser deposition and in-situ assisted ultraviolet pulsed laser deposition"
V. Nelea, M. Iliescu, V. Craciun, I. N. Mihailescu, C. Ristoscu, C. Ghica, H. Pelletier, J. Werckmann
Journal of Materials Science: Materials in Medicine, **13**(2002) 1167-1173
19. "Optical Emission Spectroscopy and Time-of-Flight investigations of plasmas generated from AlN targets in cases of Pulsed Laser Deposition with sub-ps and ns Ultra Violet laser pulses"
Carmen Ristoscu, Ion N. Mihailescu, Michalis Velegrakis, Maria Massaouti, Argyro Klini, Costas Fotakis
Journal of Applied Physics, **93**(5) 2244-2250 (2003)
20. "Dependence of AlN thin films morphology on laser irradiation in Pulsed Laser Deposition"
V. Zorba, A. Klini, E. Gyorgy, C. Ristoscu, V. S. Teodorescu, I. N. Mihailescu, C. Fotakis

Laser Physics, **13**(10) (2003) 1325-1329

21. *"Deposition of multistructures of BN/SiC/Si and BN/TiN/Si with sub-ps and ns UV laser pulses"*

Carmen Ristoscu, Ion N. Mihailescu, Valentin Nelea, Ioan Ursu, Argyro Klini, Vasilia Zorba, Costas Fotakis, Romanian Journal of Physics, **48**, Supplement I, 67-74 (2003)

22. *"Effects of pulse laser duration and ambient nitrogen pressure in PLD of AlN"*

C. Ristoscu, E. Gyorgy, I. N. Mihailescu, A. Klini, V. Zorba, C. Fotakis Applied Physics A, **79**(4-6), 927-929 (2004)

23. *"SnO₂ nanostructured films obtained by pulsed laser ablation deposition"*

C. Ristoscu, L. Cultrera, A. Dima, A. Perrone, R. Cutting, H. L. Du, A. Busiakiewicz, Z. Klusek, S. Datta, S. Rose Applied Surface Science, **247**(1-4), 95-100 (2005)

24. *"Pulsed laser deposition of Mg thin films on Cu substrates for photocathode application"*

L. Cultrera, A. Pereira, C. Ristoscu, A. Clozza, F. Tazzioli, C. Vicario Applied Surface Science, **248**(1-4), 397-401 (2005)

25. *"Structural and optical characterizations of AlN films grown by pulsed laser deposition"*

C. Ristoscu, C. Ducu, G. Socol, F. Craciunoiu, I. N. Mihailescu Applied Surface Science, **248**(1-4), 411-415 (2005)

26. *"Nanostructured ZnO coatings grown by pulsed laser deposition for optical gas sensing of butane"*

T. Mazingue, L. Escoubas, L. Spalluto, F. Flory, G. Socol, C. Ristoscu, E. Axente, S. Grigorescu, I. N. Mihailescu, N. A. Vainos Journal of Applied Physics, **98**(7), 074312 (2005)

27. *"Hydroxyapatite pulsed laser deposited thin films behaviour when submitted to biological simulated tests"*

S. Grigorescu, C. Ristoscu, G. Socol, E. Axente, F. Feugeas, I. N. Mihailescu Romanian Reports in Physics, Vol. **57**, No. 4, p.1007-1014 (2005)

28. *"Matrix assisted pulsed laser evaporation processing of triacetate-pullulan polysaccharide thin films for drug delivery systems"*

R. Cristescu, G. Dorcioman, C. Ristoscu, E. Axente, S. Grigorescu, A. Moldovan, I.N. Mihailescu, T. Kocourek, M. Jelinek, M. Albulescu, T. Buruiana, D. Mihaiescu, I. Stamatin, D.B. Chrisey Applied Surface Science, **252**(13) 4647-4651 (2006)

29. *"Femtosecond pulse shaping for phase and morphology control in PLD: synthesis of cubic SiC"*

C. Ristoscu, G. Socol, C. Ghica, I. N. Mihailescu, D. Gray, A. Klini, A. Manousaki, D. Anglos, C. Fotakis Applied Surface Science, **252**(13), 4857-4862 (2006)

30. *"Growth studies of thin hydroxyapatite layers obtained by pulsed laser deposition on titanium substrates"*

A. Carradò, S. Joulé, J. Faerber, J. Werckmann, L. Barrallier, C. Ristoscu, G. Dorcioman, S. Grigorescu, I. N. Mihailescu Composite: Part B engineering, special issue 2006

31. *"Pulsed laser deposition growth of thin hydroxyapatite layers on titanium substrates"*

A. Carradò, S. Joulé, G. Schmerber, J. Faerber, C. Ristoscu, G. Dorcioman, S. Grigorescu, I. N. Mihailescu, J. Werckmann Revue Matériaux et Techniques, **94**, 105-109 (2006).

32. *"Growth and characterization of β -SiC films obtained by multipulse fs laser ablation"*

C. Ghica, C. Ristoscu, G. Socol, D. Brodoceanu, L. C. Nistor, I. N. Mihailescu, A. Klini, C. Fotakis Applied Surface Science, **252**(13), 4672-4677 (2006)

33. *"Nanocrystalline Er:YAG thin films prepared by pulsed laser deposition: An electron microscopy study"*

D. Stanoi, A. Popescu, C. Ghica, G. Socol, E. Axente, C. Ristoscu, I. N. Mihailescu, A. Stefan, S. Georgescu Applied Surface Science **253** (2007) 8268-8272

34. *"Structural and optical characterization of undoped, doped, and clustered ZnO thin films obtained by PLD for gas sensing applications"*

C. Ristoscu, D. Caiteanu, G. Prodan, G. Socol, S. Grigorescu, E. Axente, N. Stefan, V. Ciupina, G. Aldica, I. N. Mihailescu Applied Surface Science, **253**(15), 6499-6503 (2007)

35. *"Mg based photocathodes for high brightness RF photoinjectors"*

L. Cultrera, G. Gatti, F. Tazzioli, A. Perrone, P. Miglietta, C. Ristoscu, S. Orlanducci, A. Fiori Applied Surface Science, **253**(15), 6531-6534 (2007)

36. *"Enhanced gas sensing of Au nanocluster-doped or -coated zinc oxide thin films"*

G. Socol, E. Axente, C. Ristoscu, F. Sima, A. Popescu, N. Stefan, I. N. Mihailescu, L. Escoubas, J. Ferreira, A. Szekeres, S. Bakalova Journal of Applied Physics, **102**, 083103 (2007)

37. *"Photoemission characteristics of PLD grown Mg films under UV laser irradiation"*

L. Cultrera, C. Ristoscu, G. Gatti, P. Miglietta, F. Tazzioli, A. Perrone Journal of Physics D: Applied Physics, **40** (2007) 5965-5970

38. *"Measurements of quantum efficiency of Mg films produced by pulsed laser ablation deposition for application to bright electron sources"*

Gatti, G., Cultrera, L., Tazzioli, F., Vicario, C., Fiori, A., Perrone, A., Ristoscu, C International Journal of Modern Physics A **22** (23), pp. 4051-4060, 2007

39. *"Study of the gradual interface between hydroxyapatite thin films PLD grown onto Ti-controlled sublayers"*

S. Grigorescu, A. Carradò, C. Ulhaq, J. Faerber, C. Ristoscu, G. Dorcioman, E. Axente, J. Werckmann and I.N. Mihailescu Applied Surface Science, **254**(4), 1150-1154 (2007)

40. *"Double-layer Bioactive Glass Coatings Obtained by Pulsed Laser Deposition"*

D. Tanaskovic, Dj. Veljković, R. Petrović, Dj. Janačković, M. Mitrić, C. Cojanu, C. Ristoscu, I.N. Mihailescu Key Engin. Mater., **361-363** (2008) 277-280.

41. *"A perspective of pulsed laser deposition (PLD) in surface engineering: alumina coatings and substrates"*

Adele Carradò, Hervé Pelletier, Felix Sima, Carmen Ristoscu, Agnès Fabre, Laurent Barrallier and I. N. Mihailescu Key Engineering Materials Vol. **384** (2008) 185-212

42. *"Strontium-substituted hydroxyapatite coatings synthesized by pulsed laser deposition: in-vitro osteoblast and osteoclast response"*

- C. Capuccini, P. Torricelli, F. Sima, E. Boanini, C. Ristoscu, B. Bracci, G. Socol, M. Fini, I.N. Mihailescu, A. Bigi
Acta Biomaterialia, **4** (2008) 1885–1893
43. "Shallow Hydroxyapatite coatings pulsed laser deposited on Al_2O_3 substrates with controlled porosity: correlation of morphological characteristics with in vitro testing results"
F. Sima, C. Ristoscu, N. Stefan, G. Dorcioman, I.N. Mihailescu, L. E. Sima, S. M. Petrescu, E. Palcevskis, J. Krastins, I. Zalite
Applied Surface Science **255** (2009) 5312–5317
44. "AlN:Cr thin films synthesized by pulsed laser deposition: studies by X-ray diffraction and spectroscopic ellipsometry"
A. Szekeres, S. Bakalova, S. Grigorescu, A. Cziraki, G. Socol, C. Ristoscu, I. N. Mihailescu
Applied Surface Science **255** (2009) 5271–5274
45. "Spectroscopic study of $(AsSe)_{100-x}Ag_x$ thin films"
V. Ilcheva, T. Petkova, P. Petkov, V. Boev, G. Socol, F. Sima, C. Ristoscu, C. N. Mihailescu, I. N. Mihailescu, C. Popov, J. P. Reithmaier
Applied Surface Science, **255** (2009) 9691–9694
46. "Bioglass –polymer thin coatings obtained by MAPLE for a new generation of implants"
F. Sima, C. Ristoscu, A. Popescu, I. N. Mihailescu, T. Kononenko, S. Simon, T. Radu, O. Ponta, R. Mustata, L. E. Sima, S. M. Petrescu
Journal of Optoelectronics and Advanced Materials, **11**(9), 1170 – 1174 (2009)
47. "Surface Morphology Of AlN Films Synthesized By Pulsed Laser Deposition"
S. Bakalova, A. Szekeres, G. Huhn, K. Havancsak, S. Grigorescu, G. Socol, C. Ristoscu, I.N. Mihailescu
Vacuum, **84**(1), 155-157 (2009)
48. "Biofunctional alendronate-hydroxyapatite thin films deposited by matrix assisted pulsed laser evaporation"
A. Bigi, E. Boanini, C. Capuccini, M. Fini, I.N. Mihailescu, C. Ristoscu, F. Sima, P. Torricelli
Biomaterials, **30**(31) 6168-6177 (2009)
49. "The deep level influence on the admittance of AlN/Si structures with pulsed laser deposited AlN films"
S. Simeonov, A. Szekeres, I. Minkov, S. Grigorescu, G. Socol, C. Ristoscu, I. N. Mihailescu
Journal of Optoelectronics and Advanced Materials, **11**(9), 1292 – 1295 (2009)
50. "Metal Oxide Nanoparticles Synthesized by Pulsed Laser Ablation for Proton Exchange Membrane Fuel Cells"
G. Dorcioman, D. Ebrasu, I. Enculescu, N. Serban, E. Axente, F. Sima, C. Ristoscu, I. N. Mihailescu
Journal of Power Sources, **195**(23) 7776-7780 (2010)
51. "Effect of incident laser fluence on the properties of pulsed-laser deposited AlN films"
A. Szekeres, S. Simeonov, S. Bakalova, I. Minkov, A. Cziraki, C. Ristoscu, G. Socol, G. Dorcioman, I. N. Mihailescu
Journal of Optoelectronics and Advanced Materials, Vol. **12**, No. 3, March 2010, p. 542 - 546
52. "Stress study of thin As-Se-Ag films deposited by vacuum thermal evaporation and pulsed laser deposition"
T. Petkova, V. Ilcheva, P. Petkov, G. Socol, F. Sima, C. Ristoscu, C. N. Mihailescu, I.N. Mihailescu, C. Popov, J.P. Reithmaier
Journal of Optoelectronics and Advanced Materials, Vol. **12**, No. 3, March 2010, p. 650 - 653
53. "Microstructural characterization of hydroxyapatite-alendronate nanocomposites"
D. Negrea, C. Ducu, S. Moga, V. Malinovski, J. Neamtu, C. Ristoscu, I. N. Mihailescu, F. Cornelia
Journal of Optoelectronics and Advanced Materials, **12**(5), May 2010, p. 1194 – 1199
54. "Biocompatibility and Bioactivity Enhancement of Ce Stabilized ZrO_2 Doped HA Coatings by Controlled Porosity Change of Al_2O_3 Substrates"
F. Sima, C. Ristoscu, D. Caiteanu, N. Stefan, C. N. Mihailescu, I. N. Mihailescu, G. Prodan, V. Ciupina, E. Palcevskis, J. Krastins, L. E. Sima, S. M. Petrescu
Journal of Biomedical Materials Research: Part B - Applied Biomaterials, Volume 96B, Issue 2, February 2011, Pages: 218–224
55. "Tailoring immobilization of immunoglobulin by excimer laser for biosensor applications"
F. Sima, E. Axente, C. Ristoscu, I. N. Mihailescu, T. V. Kononenko, I. A. Nagovitsin, G. Chudinova, V. I. Konov, M. Socol, I. Enculescu, L. E. Sima, S. M. Petrescu
Journal of Biomedical Materials Research Part A Volume 96A, Issue 2, February 2011, Pages: 384–394
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