



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) Traian Petrisor
Official address(es) Technical University of Cluj-Napoca, 28 Memorandumului Stree, Cluj-Napoca, Romania
Telephone(s) +40-264-599855
Fax(es) +40-264-592055
E-mail Traian.Petrisor@phys.utcluj.ro
Nationality Romanian
Date of birth 01.08.1951
Gender Male

Work experience

Dates 1974-1991
Occupation or position held Physicist, Researcher, Senior Scientific Researcher III, Senior Scientific Researcher II
Main activities and responsibilities - Quantum metrology
- Participation at academic international joint projects on Josephson effect in quantum metrology (Royal Society-National Physics Laboratory, London, 1987 and Chinese Academy of Sciences, Institute of Physics, Beijing, 1989)
Name and address of employer National Institute of Metrology, 2 Navodari Street, Cluj-Napoca, Romania
Type of business or sector Research Institute

Dates 1991-2004
Occupation or position held Lecturer, Associate Professor
Main activities and responsibilities - High-temperature superconductors (HTS), Physics and technology of magnetic and superconducting thin films
Name and address of employer Technical University of Cluj-Napoca
Type of business or sector University

Dates 1995-1997
Occupation or position held Scientific researcher, International Centre of Theoretical Physics Fellow
Main activities and responsibilities High-temperature superconducting coated conductors
Name and address of employer Italian National Agency for New Technologies, Energy and Environment (ENEA), Roma-Frascati, Italy
Type of business or sector Research institute

Dates 2004-present
Occupation or position held Professor
Main activities and responsibilities - High-temperature superconducting coated conductors, Artificial pinning centers in YBCO films and vortex dynamics
- Head of "Center for Superconductivity, Spintronic and Surface Science" (C4S)
Name and address of employer Technical University of Cluj-Napoca, Romania
Type of business or sector University

Education and training

Dates 1980-1985
 Title of qualification awarded Ph.D. in Physics
 Principal subjects/occupational skills covered Doctoral thesis title "Magnetic Properties of Transition Elements Alloys"
 Name and type of organisation providing education and training Babes-Bolyai University, Cluj-Napoca

Dates 1970-1974
 Title of qualification awarded Diploma in Physics
 Principal subjects/occupational skills covered Solid State Physics
 Name and type of organisation providing education and training Babes-Bolyai University, Physics Department

Expertise field

Grants and fellowships - ICTP Fellowship: 1995-1997 (ENEA, Frascati-Roma, Italy)

Research and education programs Dates 1995-present
 - PhD Supervisor(2008), Materials Engineering , Technical University of Cluj-Napoca
 - Invited professor 1996 University of Salerno (PhD course on Superconductivity)
 - Invited researcher: 1987 , National Physical Laboratory, London, England
 1989, Institute of Physics, Beijing, China
 1997, 1999, ENEA, Frascati-Roma, Italy
 1996, Oak-Ridge National Laboratory, USA

Professional memberships
 - Member of the Romanian National Council for Awarding and Validation of Diplomas, Certificates, and University Titles, a body providing consultancy to the Minister of Education, Research, Youth, and Sports (2011)
 - SCENET European Network on Superconductivity
 - Romanian Society of Physics
 - Materials Research Society
 - European Society for Applied Superconductivity

Mother tongue(s) **Romanian**

European level (*)

Language

English

Italian

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user

Organisational skills and competences Managerial skills acquired as director of national and international projects: 14 European research projects and 6 national research projects.
 Organisational skills acquired as head of the Research Centre for Superconductivity, Spintronics and surface Science.

Technical skills and competences Solid State Physics, Low Temperature Physics, Superconductivity and Magnetism

List of relevant publications for the project

1. M.S. Gabor, T. Petrisor Jr., C. Tiusan, M. Hehn, T. Petrisor, *Magnetic and structural anisotropies of Co₂FeAl Heusler alloy epitaxial thin films*, Phys. Rev. B 84, 134413 (2011);
2. T. Petrisor Jr., M.S. Gabor, A. Boule, C. Bellouard, C. Tiusan, O. Pana, T. Petrisor, *Oxygen incorporation effects in annealed epitaxial La_{1-x}Sr_xMnO₃ thin films*, J. Appl. Phys. 109, 123913 (2011);
3. G. Ortiz, M. S. Gabor, T. Petrisor, Jr., F. Boust, F. Issac, C. Tiusan, M. Hehn, and J. F. Bobo, *Static and dynamic magnetic properties of epitaxial Co₂FeAl Heusler alloy thin films*, J. Appl. Phys. 109, 07D324 (2011);
4. Vannozi, A., Galluzzi, V., Mancini, A., Rufoloni, A., Augieri, A., Armenio, A.A., Ciontea, L., (...), Celentano, G., *Study of MgO-based buffer layer architecture for the development of Ni-Cu-Based RABiTS YBCO coated conductor*, IEEE Transactions on Applied Superconductivity 21 (3 PART 3), art. no. 5643101, pp. 2908-2911 (2011).
5. Armenio, A.A., Augieri, A., Ciontea, L., Contini, G., Davoli, I., Giovannantonio, M.D., Galluzzi, V., Petrisor, T., Celentano, G., *Structural and chemical evolution of propionate based metal-organic precursors for superconducting YBa₂Cu₃O_{7-δ} epitaxial film growth*, **Superconductor Science and Technology** 24 (11), art. no. 115008 (2011)
6. Nasui, M., Mos, Petrisor Jr., T., R.B., Gabor, M.S., Varga, R.A., Ciontea, L., Petrisor, T., , *Synthesis, crystal structure and thermal decomposition of a new copper propionate [Cu(CH₃CH₂COO)₂]·2H₂O*, **Journal of Analytical and Applied Pyrolysis** 92 (2), pp. 439-444 (2011).
7. Mos, R.B., Nasui, Petrisor Jr., T., M., Gabor, M.S., Varga, R., Ciontea, L., Petrisor, T., *Synthesis, crystal structure and thermal decomposition study of a new barium acetato-propionate complex*, **Journal of Analytical and Applied Pyrolysis** 92 (2), pp. 445-449 (2011)
8. Ristoiu, T., Ciontea, L., Traian Jr., P., Gabor, M., Petrisor, T., *Precursor chemistry for the acetylacetonate-based chemical solution deposition of epitaxial ceria thin films*, **Studia Universitatis Babeş-Bolyai Chemia** (2), pp. 179-188 (2011)
9. A. Vannozi, Gy. Thalmaier, A. Angrisani Armenio, A. Augieri, V. Galluzzi, A. Mancini, A. Rufoloni, T. Petrisor, G. Celentano *Development and characterization of cube-textured Ni–Cu–Co substrates for YBCO-coated conductors* Acta Materialia, Vol.58, Issue 3, pp 910-918 (2010)
10. Pompeo, N., Rogai, R., Galluzzi, V., Augieri, A., Celentano, G., Ciontez, L., Petrisor, T., Silva, E. *“Effect of BaZrO₃ inclusions on the microwave surface impedance of YBCO films in a magnetic field”* **IEEE Transactions on Applied Superconductivity** 19 (3), art. no. 5153232, pp. 2917-2920 (2009)
11. Vannozi, A., Celentano, G., Armenio, A.A., Augieri, A., Galluzzi, V., Gambardella, U., Mancini, A., (...), Thalmaier, G. *“Ni-Cu-Co alloy textured substrate for YBCO coated conductors”* **IEEE Transactions on Applied Superconductivity** 19 (3), art. no. 5153212, pp. 3283-3286 (2009).
12. Augieri, A., Galluzzi, V., Celentano, G., Angrisani, A.A., Mancini, A., Rufoloni, A., Vannozi, A., (...), Rubanov, S. *“Transport property improvement by means of BZO inclusions in PLD grown YBCO thin films”* **IEEE Transactions on Applied Superconductivity** 19 (3), art. no. 5067025, pp. 3399-3402 (2009).
13. Augieri, A., Galluzzi, V., Celentano, G., Angrisani, A.A., Mancini, A., Rufoloni, A., Vannozi, A., (...), Rubanov, S. *“Transport property improvement by means of BZO inclusions in PLD grown YBCO thin films”* **IEEE Transactions on Applied Superconductivity** 19 (3), art. no. 5067025, pp. 3399-3402 (2009).
14. Armenio, A.A., Celentano, G., Rufoloni, A., Vannozi, A., Augieri, A., Galluzzi, V., Mancini, A., T. Petrisor, Davoli, I. *“Deposition and characterization of metal propionate derived epitaxial YBa₂Cu₃O_{7-x} films for coated conductor fabrication”* **IEEE Transactions on Applied Superconductivity** 19 (3), art. no. 5153225, pp. 3204-3207 (2009).
15. Miu, L., Miu, D., Petrisor, T., El Tahan, A., Jakob, G., Adrian, H., *Origin of the plateau in the temperature dependence of the normalized magnetization relaxation rate in disordered high-temperature superconductors*, **Physical Review B - Condensed Matter and Materials Physics** 78 (21), art. no. 212508 (2008).
16. Mancini, A., Celentano, G., Galluzzi, V., Rufoloni, A., Vannozi, A., Augieri, A., Ciontea, L. T Petrisor, U Gambardella, G Longo, A Cricenti *Pd layer on cube-textured substrates for MOD-TFA and PLD YBCO coated conductors* **Superconductor Science and Technology** 21 (1) pp 9 (2008).
17. Augieri, A., Celentano, G., Ciontea, L., Galluzzi, V., Gambardella, U., Halbritter, J., Petrisor, T., (...), Vannozi, A. *Angular properties of pure and Ca-substituted YBa₂Cu₃O_{7-δ} superconducting thin films grown on SrTiO₃ and CeO₂ buffered Al₂O₃ substrates*, **Physica C: Superconductivity and its Applications** 460-462 II (SPEC. ISS.), pp. 829-830 (2007)
18. Pompeo, N., Silva, E., Marcon, R., Galluzzi, V., Celentano, G., Augieri, A., Petrisor, T. *Microwave properties of YBa₂Cu₃O_{7-δ} films with BaZrO₃ nanoinclusions* **Physica C: Superconductivity and its Applications** 460-462 I (SPEC. ISS.), pp. 412-413 (2007)
19. Galluzzi, V., Augieri, A., Ciontea, L., Celentano, G., Fabbri, F., Gambardella, U., Mancini, A., (...), Vannozi, A. *YBa₂Cu₃O_{7-δ} films with BaZrO₃ inclusions for strong-pinning in superconducting films on single crystal substrate* **IEEE Transactions on Applied Superconductivity** 17 (2), pp. 3628-3631 (2007).
20. I. Lupsa, T. Petrisor, *Magnetic properties of Dy_xU_{1-x}Co₂ system*, Journal of Optoelectronics and Advanced Materials, Vol8, No.2, pp.487 (2006).
21. G. Celentano¹, V. Galluzzi¹, A. Mancini¹, A. Rufoloni¹, A. Vannozi¹, A. Augieri¹, T. Petrisor², L. Ciontea², and U. Gambardella, *YBCO coated conductors on highly textured Pd-buffered Ni-W tape*, **Journal of Physics: Conference Series** 43 (2006) 158–161.
22. A Rufoloni, A Augieri, G Celentano, V Galluzzi, A Mancini, A Vannozi, T. Petrisor, L Ciontea, V Boffa and U Gambardella, *YBa₂Cu₃O_{7-x} films prepared by TFA-MOD method for coated conductor application*, **Journal of Physics: Conference Series** 43 (2006) 199–202

23. A Vannozi, A Rufoloni, G Celentano, A Augieri, L Ciontea, F Fabbri, V Galluzzi, U Gambardella, AMancini and T. Petrisor, *Cube-textured substrates for YBCO-coated conductors: microstructure evolution and stability*, **Supercond. Sci. Technol.** **19** (2006) 1240–1245
24. Augieri, A. Celentano, G., Ciontea, L., Galluzzi, V., Gambardella, U., Halbritter, J., Mancini, A., Petrisor, T., Vannozi, A. *Superconducting and normal state transport properties of epitaxial 10 at.% Ca substituted YBCO thin films*, **Physica C: Superconductivity and its Applications** 437-438 (SPEC. ISS.), pp. 17-20 (2006)
25. Tiseanu, T. Craciunescu, T. Petrisor, A. Della Corte, 3D X-ray micro-tomography for modeling of NB3SN multifilamentary superconducting wires, *Fusion Eng. Design* (2006), doi:10.1016/j.fusengdes.2006.11.003
26. G. Celentano, V. Galuzzi, A. Mancini, A. Rufoloni, A. Augieri, T. Petrisor, L. Ciontea, U. Gambardella, , "YBCO films and CeO2/YSZ/CeO2 buffer layers grown on Ni-Cr-W RABiTS with a Pd seed layer" **IEEE Transactions on Applied Superconductivity** , 15 (2 PART III), pp. 2691-2694 (2005).
27. C. Cancellieri, A. Augieri, V. Boffa, G. Celentano, Ciontea L, F. Fabbri, V. Galuzzi, T. Petrisor, R. Tebano, "Deposition and characterization of Y1-xCaxBa 2Cu3O7-δ epitaxial thin films" **IEEE Transactions on Applied Superconductivity** 15 (2 PART III), pp. 3038-3041 (2005)
28. A. Augieri, T. Petrisor, G. Celentano, L. Ciontea, V. Galluzzi, U. Gambardella, A. Mancini, A. Rufoloni, "Effect of Ca doping in YBCO Superconducting Thin Films", **Physica C** 401 (2004), 320-324.
29. B. Riccardi, C. A. Nannetti, J. Woltersdorf, E. Pippel, T. Petrisor, "Joining of SiC based ceramics and composites with Si-16Ti and Si-18Cr eutectic alloys". *International Journal of Materials and Product Technology* 20 (5-6): 440-451, 2004.
30. B. Riccardi, C. A. Nannetti, J. Woltersdorf, E. Pippel, T. Petrisor "Brazing of SiC and SiC/SiC composites performed with 84Si-16Ti eutectic alloy: microstructure and strength", **Submitted to: Journal of Materials Research**.
31. B. Riccardi, C. A. Nannetti, T. Petrisor, J. Woltersdorf, E. Pippel S. Libera L. Pilloni, "Issues of Low Activation Brazing of SiC/SiC Composites by Using Alloys Without Free Silicon" **Journal of Nuclear Materials**, 329-33, 562-566 Part A AUG 1, 2004.
32. S. Ceresara, M. Ciotti, F. Felli, G. Giunchi, A. Mauro, T. Petrisor, M. Spadoni, "Manufacture of Nb3Al superconducting wires by the rapid heating and quenching technique", **Physica C** **386** (2003), 394-397.
33. E. Varesi, G. Celentano T. Petrisor V. Boffa, L. Ciontea, V. Galluzzi, U. Gambardella, A. Mancini, , A. Rufoloni, A. Vannozi, "Pulsed laser deposition of high critical current density YBa2Cu3O7-y/CeO2/Ni-W architecture for coated conductors applications" **Supercond. Sci. Technology** **16** (2003), 498-505.
34. A. Mancini, V. Galluzzi, U. Besi Vetrella, V. Boffa, G. Celentano, L. Ciontea, U. Gambardella, G. Grassano, T. Petrisor, A. Rufoloni, S. Sprio, M. Vadrucchi, "Properties of MgB2 Films Grown by Means of Different Vapor Phase Techniques", **IEEE Transactions on Applied Superconductivity**, vol 13, No 2, (2003), 3305-3008.
35. G. Celentano, E. Varesi, T. Petrisor, V. Boffa, L. Ciontea, V. Galluzzi, U. Gambardella, A. Mancini, A. Rufoloni, A. Vannozi, "Influence of the Substrate Microstructure on the Superconducting Properties of YBCO Coated Conductors", **IEEE Transactions on Applied Superconductivity**, vol 13, No 2, (2003), 2591-2594.
36. R. Rogai, V. Galuzzi, A. Mancini, G. Celentano, T. Petrisor, A. Rufoloni, U. Gambardella, U. Bessi, E. Varesi, "Growth of MgB2 thin films by means of in situ deposition techniques" **International Journal of Modern Physics B** 17 (4-6 II), pp. 703-708 (2003)
37. A. Mancini, G. Celentano, F. Fabbri, V. Galuzzi, T. Petrisor, A. Rufoloni, E. Varesi, U. Gambardella, "Inclined substrate deposited CeO2 films by electron beam evaporation on randomly oriented metallic substrate" , **International Journal of Modern Physics B** 17 (4-6 II), pp. 886-892 (2003)
38. T. Petrisor, V. Boffa, G. Celentano, L. Ciontea, F. Fabbri, V. Galuzzi, U. Gambardella, A. Mancini, A. Rufoloni, E. Varesi, "Epitaxial oxidation of Ni-V biaxially textured tapes", **Physica C** **377** (2002) 135-145.
39. G. Celentano, V. Boffa, L. Ciontea, F. Fabbri, V. Galluzzi, U. Gambardella, A. Mancini, T. Petrisor, R. Rogai, A. Rufoloni, E. Varesi, "High Jc YBCO Coated Conductors on Non-Magnetic Metallic Substrate Using YSZ-based Buffer Layer Architecture", **Physica C** **372-376** (2002) 790-793.
40. Petreuş Dorin, Fărcaş Cristian, Palaghiţă Niculaie, Petrişor Traian, "The Input Power Control of an Electron Beam Evaporation Equipment", **The 8th International Symposium for Design and Technology of Electronic Packages, SIITME 2002, Cluj-Napoca, Romania**, 19-22 September 2002 , pp. 190-192, ISBN 973-9357-13-X.
41. Palaghiţă Niculaie, Fărcaş Cristian, Petreuş Dorin, Petrişor Traian, "The Radius Control of an Electron Beam Deflected in Magnetic Field", **The 8th International Symposium for Design and Technology of Electronic Packages, SIITME 2002, Cluj-Napoca, Romania**, 19-22 September 2002, pp. 187-189, ISBN 973-9357-13-X.
42. B. Riccardi, C. A. Nannetti, T. Petrisor, M. Sachetti, "Low activation brazing materials and techniques for SiC/SiCf composites", **Journal of Nuclear Materials**, **307-311** (2002) 1237-1241
43. B. Riccardi, C. A. Nannetti, J. Woltersdorf, E. Pippel, T. Petrisor. "Brazing of SiC and SiCf/SiC composites performed with 84Si-16Ti eutectic alloy: microstructure and strength". **Journal of Material Science** **37** (2002) 5029-5039.
44. E. Varesi, V. Boffa, G. Celentano, L. Ciontea, F. Fabbri, V. Galluzzi, U. Gambardella, A. Mancini, T. Petrisor, A. Rufoloni, A. Vannozi, "Biaxial Texturing of Ni Alloy Substrates for YBCO Coated Conductors", **Physica C** **372-376** (2002) 763-766.
45. B. Riccardi, C. A. Nannetti, J. Woltersdorf, E. Pippel, T. Petrisor. "High temperature brazing for SiC and SiC/SiC Ceramic Matrix Composites". *Advanced SiC/SiC Ceramic Composites: development and Applications in Energy Systems*, A. Kohyama, M. Singh, H-T. Lin and Y. Katoh eds, **Ceramic Transactions Vol 144**, The American Ceramic Society, Westerville (OH), 2002, pp 311-322.
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47. G. Grimaldi, V. Boffa, G. Celentano, F. Fabbri, U. Gambardella, S. Pace, T. Petrisor, "Critical Current Hysteresis in Low Angle Y-Ba-Cu-O Bicrystals", **IEEE Transactions on Applied Superconductivity**, vol. 11, no 1, (2001), 3776-3779.
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49. V. Boffa, G. Celentano, L. Ciontea, F. Fabbri, V. Galluzzi, U. Gambardella, G. Grimaldi, A. Mancini and T. Petrisor, "Influence of Film Thickness on the Critical Current of YBa2Cu3O7-x Thick Films on Ni-V Biaxially Textured Substrates", **IEEE Transactions on Applied**

Superconductivity, vol.11, no1, (2001), 3158-3161.

50. V. Boffa, C. Annino, D. Bettinelli, T. Petrisor, S. Ceresara, L. Ciontea, F. Fabbri, V. Galuzzi, U. Gambardella, G. Celentano, G. Grimaldi, A. Mancini, P. Scardi, "Epitaxial growth of heterostructures on biaxially textured metallic substrates for YBCO tape fabrication", **Physiosophical Magazine B** Vol. 80 979-990 (2000)
51. G. Giunchi, S. Ceresara, R. Corti, T. Petrisor, A. Mancini, G. Celentano, "A new metallic non magnetic substrates for coated tape conductors", **International Journal of Modern Physics B**, Vol. 14, No. 25-27 (2000) 3134-3138.
52. M. Ciotti, P. Gislou, M. Moroni, M. Spadoni, T. Petrisor, V. Pop, "Test and qualification of a variable temperature vibrating sample magnetometer system for the measurements of magnetization cycles up to 12T in the 4,2K-300K temperature range", **International Journal of Modern Physics B**, Vol. 14, No. 25-27 (2000) 2914-2919.
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55. F. Fabbri, C. Annino, V. Boffa.. " Properties of biaxially oriented Y_2O_3 based buffer layers deposited on cube textured non-magnetic Ni-V substrates for YBCO coated conductors", **Physica C** **341-348**, 2503-2504 (2000).
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