



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Lelia Ciontea**  
Official address(es) Technical University of Cluj-Napoca, 28 Memorandumului Street, Cluj-Napoca, Romania  
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E-mail Lelia.Ciontea@chem.utcluj.ro  
Nationality Romanian  
Date of birth 27.08.1956  
Gender Female

### Work experience

Dates 1980-1991  
Occupation or position held Chemical Engineer(1980-1985), Researcher(1985-1989), Senior Scientific Researcher III(1989-1991)  
Main activities and responsibilities Phlogopite Machinable Glass-Ceramics, Hydroxyapatite Biomaterials, High Temperature Superconductors  
Name and address of employer CERO Ceramic Research Institute, 1 T. Laurean Street, Cluj-Napoca, Romania  
Type of business or sector Research Institute

Dates 1991-2004  
Occupation or position held Lecturer(1991-1998), Associate Professor(1998-2004)  
Main activities and responsibilities High-temperature superconductors (HTS), Oxide thin films, Materials chemistry  
Name and address of employer Technical University of Cluj-Napoca, 15 C. Daicoviciu Street, Cluj-Napoca, Romania  
Type of business or sector University

Dates 2004-present  
Occupation or position held Professor  
Main activities and responsibilities Chemical Methods for Epitaxial Oxide Thin Films Deposition, Oxide precursor chemistry  
Name and address of employer Technical University of Cluj-Napoca, 28 Memorandumului Street, Cluj-Napoca, Romania  
Type of business or sector University

### Education and training

Dates 1990-1998  
Title of qualification awarded Ph.D. in Chemistry  
Principal subjects/occupational skills covered Doctoral thesis title "Superconducting Thin Films"  
Name and type of organisation providing education and training Babes-Bolyai University, Cluj-Napoca, Romania  
Dates 1987

Title of qualification awarded	Specialist diploma in Modern Technologies in Fine Ceramics
Principal subjects/occupational skills covered	Fundamentals and modern trends in ceramic technologies
Name and type of organisation providing education and training	"Traian Vuia" Polytechnic Institute, Timisoara, Romania
Dates	1975-1980
Title of qualification awarded	Diploma in Chemical Engineering
Principal subjects/occupational skills covered	Diploma thesis "Willemite Luminescent Pigments" Solid state reactions, structure-properties relationship
Name and type of organisation providing education and training	"Traian Vuia" Polytechnic Institute, Timisoara, Romania

### Expertise field

Grants and fellowships	<ul style="list-style-type: none"> <li>- Visiting researcher: 1995-2005 (2-4 months /year) at the Italian Agency for Energy, New Technologies and Environment, ENEA Frascati (Rome), Italy</li> <li>- Invited professor, European School of Physics and Chemistry of Materials, University of Strasbourg, 2010</li> </ul>
Research and education programs	<p>Dates 2008-present</p> <ul style="list-style-type: none"> <li>- PhD Supervisor (2 PhD - 2011, 4 PhD students), Materials Engineering, Technical University of Cluj-Napoca, Romania</li> </ul> <p>Professional memberships</p> <ul style="list-style-type: none"> <li>- Romanian Ceramic Society</li> <li>- SCENET (European Network on Superconductivity)</li> </ul>

Mother tongue(s) **Romanian**

European level (\*)

#### Language

**English**

**German**

**French**

**Italian**

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
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

Organisational skills and competences Group management

Technical skills and competences Materials chemistry, Advanced ceramic materials, Thin films

Computer skills and competences Windows/Office and Specialized Software

### Annexes

List of relevant publications

#### LIST OF RELEVANT PUBLICATIONS (SELECTED)

- [1] M. Nasui, R. B. Mos, T. Petrisor Jr., M. S. Gabor, R. Varga, L. Ciontea, T. Petrisor, "Synthesis, crystal structure and thermal decomposition of a new copper propionate  $[\text{Cu}(\text{CH}_3\text{CH}_2\text{COO})_2] \cdot 2\text{H}_2\text{O}$ ", *Journal of Analytical and Applied Pyrolysis* vol.92, pp. 439-444, 2011
- [2] R.B. Mos, M. Nasui, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, T. Petrisor, Synthesis, crystal structure and thermal decomposition study of a new barium acetato-propionate complex, *Journal of Analytical and Applied Pyrolysis* vol.92, pp. 445-449, 2011
- [3] A. Vannozi, V. Galluzzi, A. Mancini, A. Ruffolini, A. Augier, A. A. Armenio, L. Ciontea, G. Thalmaier, T. Petrisor și G. Celentano, "Study of MgO-Based Buffer Layer Architecture for the Development of Ni-Cu-Based RABITS YBCO Coated Conductor," *Ieee Transactions on Applied Superconductivity*, vol. 21, pp. 2908-2911, Jun,2011.

- [4] C. Badea, R. B. Mos, L. Ciontea și I. Ardelean, "Low-Field Nuclear Magnetic Resonance Relaxometry as a Tool in Monitoring the Aging of Coating Solutions (Case Study: Barium Propionate Precursor Coating Solution)," *Applied Magnetic Resonance*, vol. 39, pp. 365-372, Dec,2010.
- [5] V. Galluzzi, A. Augieri, T. Petrisor, L. Ciontea, G. Celentano, A. Mancini, A. Vannozzi, A. A. Angrisani și A. Rufoloni, "Deposition and characterization of YBCO films with BZO inclusions on single crystal substrate," *Physica C-Superconductivity and Its Applications*, vol. 470, pp. S142-S144, Dec,2010.
- [6] A. Augieri, G. Celentano, V. Galluzzi, A. Mancini, A. Rufoloni, A. Vannozzi, A. A. Armenio, T. Petrisor, L. Ciontea, S. Rubanov, E. Silva și N. Pompeo, "Pinning analyses on epitaxial YBa(2)Cu(3)O(7-delta) films with BaZrO(3) inclusions," *Journal of Applied Physics*, vol. 108, Sep 15,2010.
- [7] L. Ciontea, M. Nasui, T. Petrisor, R. B. Mos, M. S. Gabor, R. A. Varga și T. Petrisor, "Synthesis, crystal structure and thermal decomposition of [La(2)(CH(3)CH(2)COO)(6)center dot(H(2)O)(3)]center dot 3.5H(2)O precursor for high-k La(2)O(3) thin films deposition," *Materials Research Bulletin*, vol. 45, pp. 1203-1208, Sep,2010.
- [8] R. B. Mos, M. S. Gabor, M. Nasui, T. Petrisor, C. Badea, A. Rufoloni, L. Ciontea și T. Petrisor, "Synthesis of epitaxial BaZrO(3) thin films by chemical solution deposition," *Thin Solid Films*, vol. 518, pp. 4714-4717, Jun 1,2010.
- [9] M. Nasui, T. Petrisor, R. B. Mos, M. S. Gabor, T. Ristoiu, A. Rufoloni, L. Ciontea și T. Petrisor, "Precursor chemistry for the solution deposition of epitaxial La(0.66)Sr(0.33)MnO(3) (LSMO) thin films," *Thin Solid Films*, vol. 518, pp. 4753-4756, Jun 1,2010.
- [10] M. M. Venter, V. N. Bercean, R. A. Varga, V. Sasca, T. Petrisor și L. Ciontea, "Solid State Structure of a New Nickel(li) (3h-2-Thioxo-1,3,4-Thiadiazol-2-Yl) Thioacetato Complex," *Studia Universitatis Babes-Bolyai Chemia*, vol. 55, pp. 217-226,2010.
- [11] A. A. Armenio, G. Celentano, A. Rufoloni, A. Vannozzi, A. Augieri, V. Galluzzi, A. Mancini, L. Ciontea, T. Petrisor, G. Contini și I. Davoli, "Deposition and Characterization of Metal Propionate Derived Epitaxial YBa(2)Cu(3)O(7-x) Films for Coated Conductor Fabrication," *Ieee Transactions on Applied Superconductivity*, vol. 19, pp. 3204-3207, Jun,2009.
- [12] A. Augieri, V. Galluzzi, G. Celentano, A. A. Angrisani, A. Mancini, A. Rufoloni, A. Vannozzi, E. Silva, N. Pompeo, T. Petrisor, L. Ciontea, U. Gambardella și S. Rubanov, "Transport Property Improvement by Means of BZO Inclusions in PLD Grown YBCO Thin Films," *Ieee Transactions on Applied Superconductivity*, vol. 19, pp. 3399-3402, Jun,2009.
- [13] N. Pompeo, R. Rogai, V. Galluzzi, A. Augieri, G. Celentano, L. Ciontea, T. Petrisor și E. Silva, "Effect of BaZrO(3) Inclusions on the Microwave Surface Impedance of YBCO Films in a Magnetic Field," *Ieee Transactions on Applied Superconductivity*, vol. 19, pp. 2917-2920, Jun,2009.
- [14] A. A. Armenio, A. Augieri, L. Ciontea, G. Contini, I. Davoli, V. Galluzzi, A. Mancini, A. Rufoloni, T. Petrisor, A. Vannozzi și G. Celentano, "Characterization of epitaxial YBa(2)Cu(3)O(7-delta) films deposited by metal propionate precursor solution," *Superconductor Science & Technology*, vol. 21, Dec,2008.
- [15] T. Ristoiu, L. Ciontea, R. C. Suci, T. Petrisor, M. S. Gabor, G. Thalmayer și T. Petrisor, "Thermal decomposition study by DTA-TG-MS of cerium[III] acetylacetonate used as ceria thin film precursor," *Journal of Optoelectronics and Advanced Materials*, vol. 10, pp. 2223-2227, Sep,2008.
- [16] A. Augieri, V. Galluzzi, G. Celentano, F. Fabbri, A. Mancini, A. Rufoloni, A. Vannozzi, U. Gambardella, G. Padeletti, A. Cusma, T. Petrisor și L. Ciontea, "Critical Current Density of YBa(2)Cu(3)O(7-x) Films with BaZrO(3) Inclusions On SrTiO(3) and Al(2)O(3) Substrates," *8th European Conference on Applied Superconductivity (Eucas'07)*, vol. 97,2008.
- [17] L. Ciontea, A. Angrisani, G. Celentano, T. Petrisor, A. Rufoloni, A. Vannozzi, A. Augieri, V. Galuzzi, A. Mancini și T. Petrisor, "Metal Propionate Synthesis of Epitaxial YBa(2)Cu(3)O(7-x) Films," *8th European Conference on Applied Superconductivity (Eucas'07)*, vol. 97,2008.
- [18] L. Ciontea, G. Celentano, A. Augieri, T. Ristoiu, R. Suci, M. S. Gabor, A. Rufoloni, A. Vannozzi, V. Galluzzi și T. Petrisor, "Chemically Processed BaZrO(3) Nanopowders as Artificial Pinning Centres," *8th European Conference on Applied Superconductivity (Eucas'07)*, vol. 97,2008.
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- [20] A. Vannozzi, G. Celentano, A. Angrisani, A. Augieri, L. Ciontea, I. Colantoni, V. Galluzzi, U. Gambardella, A. Mancini, T. Petrisor, A. Rufoloni și G. Thalmayer, "Nickel-Copper Alloy Tapes as Textured Substrates for YBCO Coated Conductors," *8th European Conference on Applied Superconductivity (Eucas'07)*, vol. 97,2008.
- [21] A. Augieri, G. Celentano, L. Ciontea, V. Galluzzi, U. Gambardella, J. Halbritter, T. Petrisor, A. Rufoloni și A. Vannozzi, "Angular properties of pure and Ca-substituted YBa2Cu3O7-delta superconducting thin films grown on SrTiO3 and CeO2 buffered Al2O3 substrates," *Physica C-Superconductivity and Its Applications*, vol. 460, pp. 829-830, Sep 1,2007.
- [22] V. Galluzzi, A. Augieri, L. Ciontea, G. Celentano, F. Fabbri, U. Gambardella, A. Mancini, T. Petrisor, N. Pompeo, A. Rufoloni, E. Silva și A. Vannozzi, "YBa2Cu3O7-delta films with BaZrO3 inclusions for strong-pinning in superconducting films on single crystal substrate," *Ieee Transactions on Applied Superconductivity*, vol. 17, pp. 3628-3631, Jun,2007.
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- [24] L. Ciontea, T. Ristoiu, R. C. Suci, T. Petrisor, B. Neamtu, A. Rufoloni, G. Celentano și T. Petrisor, "Chemical processing and characterization of barium zirconate nanopowders," *Journal of Optoelectronics and Advanced Materials*, vol. 9, pp. 776-779, Mar,2007.
- [25] L. Ciontea, T. Ristoiu, R. C. Suci și T. Petrisor, "Epitaxial growth of Y2O3 on biaxially textured ni tapes using a sol-gel process for YBCO coated conductors," *Six International Conference of the Balkan Physical Union*, vol. 899, pp. 620-620,2007.
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- [27] A. Augieri, G. Celentano, L. Ciontea, V. Galluzzi, U. Gambardella, J. Halbritter, A. Mancini, T. Petrisor, A. Rufoloni și A. Vannozi, "Superconducting and normal state transport properties of epitaxial 10 at.% Ca substituted YBCO thin films," *Physica C-Superconductivity and Its Applications*, vol. 437-38, pp. 17-20, May 15,2006.
- [28] A. Augieri, G. Celentano, L. Ciontea, J. Halbritter, V. Galluzzi, U. Gambardella, A. Mancini, T. Petrisor, A. Rufoloni și A. Vannozi, "Angular dependence of critical current density in Ca-doped YBCO epitaxial thin films," *Low Temperature Physics, Pts A and B*, vol. 850, pp. 483-484,2006.
- [29] G. Celentano, V. Galluzzi, A. Mancini, A. Rufoloni, A. Vannozi, A. Augieri, T. Petrisor, L. Ciontea și U. Gambardella, "YBCO coated conductors on highly textured Pd-buffered Ni-W tape," *7th European Conference on Applied Superconductivity (Eucas'05)*, vol. 43, pp. 158-161,2006.
- [30] A. Rufoloni, A. Augieri, G. Celentano, V. Galluzzi, A. Mancini, A. Vannozi, T. Petrisor, L. Ciontea, V. Boffa și U. Gambardella, "YBa(2)Cu(3)O(7-x) films prepared by TFA-MOD method for coated conductor application," *7th European Conference on Applied Superconductivity (Eucas'05)*, vol. 43, pp. 199-202,2006.
- [31] C. Cancellieri, A. Augieri, V. Boffa, G. Celentano, L. Ciontea, F. Fabbri, V. Gailluzzi, U. Gambardella, G. Grassano, T. Petrisor și R. Tebano, "Deposition and characterization of Y1-xCaxBa2Cu3O7-delta epitaxial thin films," *Ieee Transactions on Applied Superconductivity*, vol. 15, pp. 3038-3041, Jun,2005.
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