



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **TIMAR, Maria Cristina**  
Address(es) Office: *Transilvania* University of Brasov , 29 Eroilor Street, 500036 postcode, Brasov, ROMANIA  
Telephone(s) +40 268 419581 Mobile: +40 723 710939  
Fax(es) +40 268 419581  
E-mail cristinatimar@unitbv.ro  
Nationality ROMANIAN  
Date of birth 02.06.1957  
Gender Female

### Occupational field **Higher education- Scientific research**

#### Work experience

Dates **01.10.2003 – PRESENT**  
Occupation or position held **Professor**  
Main activities and responsibilities Teaching, scientific research, development of laboratories, new master courses  
Name and address of employer *Transilvania* University of Brasov, 29 Eroilor Street, 500056 Brasov, Romania, <http://www.unitbv.ro>  
Type of business or sector Higher education and research

Dates **01.10.1990 – 30.09. 2003**  
Occupation or position held Assistant professor, Lecturer, Senior lecturer  
Main activities and responsibilities Teaching, scientific research, development of laboratories  
Name and address of employer *Transilvania* University of Brasov, 29 Eroilor Street, 500056 Brasov, Romania, <http://www.unitbv.ro>  
Type of business or sector Higher education and research

Dates **01.06.1986– 30.09.1990**  
Name and address of employer Researcher  
Type of business or sector Scientific research, projects development  
Name and address of employer *Transilvania* University of Brasov, 29 Eroilor Street, 500056 Brasov, Romania, <http://www.unitbv.ro>  
Type of business or sector Higher education and research

Dates **01.09.1981- 31.05.1986**  
Occupation or position held Chemist – Head of Laboratory  
Main activities and responsibilities Chemical analyses, Technological control  
Name and address of employer “*COLOROM*” Codlea – *Chemical Company*, *Vulcanului Street*, *Codlea*, *Brasov*, *Romania*  
Type of business or sector Chemical industry

### Education and training

Dates 1992 - 1998  
Title of qualification awarded **PhD** – Doctor of Philosophy – Brunel University, UK  
Dr (PhD) – Doctor in Technical field – Romania – (PhD title recognised)

Principal subjects/occupational skills covered	PhD Thesis title: <i>Chemically modified wood for thermally formed composites</i> Scientific research in the field of chemical modification of wood, characterisation of the modified sawdust, thermal forming into composites and their physical, mechanical and biological testing This research started in Romania (1992-1998) and continued in the UK (1997-1998) Competences in documentation, scientific research, international cooperation																																								
Name and type of organisation providing education and training	<i>Brunel</i> University – Uxbridge , West London, UK /Buckinghamshire Chilterns University College, Forest Products Research Centre, High Wycombe (1997-1998) <i>Transilvania</i> University of Brasov – Romania /Faculty of Wood Industry (1992-1997)																																								
Level in national or international classification	ISCED (2013) 05/0531 (Natural sciences/chemistry); 0711- Chemical engineering and processes; 0722- Materials (wood); 0821 -Forestry EQF 8																																								
Dates	1980-1981																																								
Title of qualification awarded	<b>Specialist in organic chemistry</b> (Master)																																								
Principal subjects/occupational skills covered	Organic chemistry Research on mechanisms of reactions, Skills in documentation and research																																								
Name and type of organisation providing education and training	Babes –Bolyai University of Cluj Napoca Faculty of Chemical Technology																																								
Level in national or international classification	ISCED (2013) 05/0531 (Natural sciences/chemistry) EQF 7																																								
Dates	1976-1980																																								
Title of qualification awarded	<b>CHEMIST</b>																																								
Principal subjects/occupational skills covered	General chemistry, Analytical chemistry, Inorganic chemistry, Organic chemistry Fundamental sciences: mathematics, physics Skills in documentation and research																																								
Name and type of organisation providing education and training	Babes –Bolyai University of Cluj Napoca Faculty of Chemical Technology																																								
Level in national or international classification	ISCED (2013) 05/0531 (Natural sciences/chemistry) EQF 6																																								
<b>Personal skills and competences</b>																																									
Mother tongue(s)	<b>Romanian</b>																																								
Self-assessment <i>European level</i> (*)	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td><b>C1</b></td> <td><b>Advanced user</b></td> <td><b>C1</b></td> <td><b>Advanced user</b></td> <td><b>C1</b></td> <td><b>Advanced user</b></td> <td><b>C1</b></td> <td><b>Advanced user</b></td> <td><b>C1</b></td> <td><b>Advanced user</b></td> </tr> <tr> <td><b>B1</b></td> <td><b>Basic user</b></td> <td><b>B1</b></td> <td><b>Basic user</b></td> <td><b>A2</b></td> <td><b>Basic user</b></td> <td><b>A2</b></td> <td><b>Basic user</b></td> <td><b>A2</b></td> <td><b>Basic user</b></td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>B1</b>	<b>Basic user</b>	<b>B1</b>	<b>Basic user</b>	<b>A2</b>	<b>Basic user</b>	<b>A2</b>	<b>Basic user</b>	<b>A2</b>	<b>Basic user</b>
Understanding				Speaking				Writing																																	
Listening		Reading		Spoken interaction		Spoken production																																			
<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>	<b>C1</b>	<b>Advanced user</b>																																
<b>B1</b>	<b>Basic user</b>	<b>B1</b>	<b>Basic user</b>	<b>A2</b>	<b>Basic user</b>	<b>A2</b>	<b>Basic user</b>	<b>A2</b>	<b>Basic user</b>																																
	(*) <a href="#">Common European Framework of Reference for Languages</a>																																								
Social skills and competences	Team co-worker, communication skills, multicultural approach, strong sense of duty, experience in volunteering actions (organizer, promoter and volunteer)																																								
Organisational skills and competences	Organisation of international conferences and workshops, other events (exhibitions, presentations, restoration camps, volunteering actions) Research projects manager (FP5, National research projects: 4 as coordinator, more than 25 as partner, 4 international projects) eg Network on wood modification, COST E37 Laboratories development, acquisition of equipments																																								
Technical skills and competences	Wood improvement – wood preservation: materials, technology development and products testing Wood finishing and gluing: products development and testing Furniture Conservation / Restoration: concept and intervention Experimental techniques for materials investigation: microscopy, FTIR, chemical analyses Wood durability evaluation by field-testing Capacity for developing new laboratory methods and techniques																																								

Computer skills and competences	PC user: Office, Photo shop, Corel Draw, microscopic images capturing and processing software; specialised analytical tools software (e.g. OPUS)
Artistic skills and competences	Design of exhibitions – Furniture restoration exhibitions organised yearly Graphic design of promotional materials for exhibitions: posters, catalogues, badges
Other skills and competences	Member of the editorial board of scientific journals: <i>Bulletin of Transilvania University of Brasov- series II, Pro Ligno, International Journal of Conservation Science</i> Scientific reviewer for international journals and conferences: <i>International Journal of Wood Products, Pro Ligno, International Journal of Conservation Science</i> , and/or scientific reviewer
<b>Additional information</b>	<i>H index (ISI) 5; H Index (Scopus) 4; H index Google Scholar 6</i> <b>Publications:</b> 4 books, 5 patents, about 140 research papers (12 ISI, 5 ISI proceedings, 40 journals in other international databases, over 60 international conference papers) <b>Research projects:</b> National research projects: 4 as coordinator, more than 25 as partner, 4 international projects eg Network on wood modification C1RT-, COST E37 <i>Contact persons for international references:</i> Dr. Mark Irlé (Nancy), Prof. Holger Militz (Goettingen), Prof. Joris Van Acker (Gent), Dr. Andrew Pitman (UK), Dr Dennis Jones (UK), Dr. Kevin Maher (UK)
<b>Annexes</b>	List of relevant publications (selection)

Date: 29. 06. 2016



LIST OF SELECTED RELEVANT 20 PUBLICATIONS  
(Selection from 2000-2016)

A. ISI Journals articles

1. **Timar M.C.**, Varodi A., Gurău L. (2016). Comparative study of photodegradation of six wood species after short-time UV exposure, (DOI) 10.1007/s00226-015-0771-3, *Wood Sci Technol* (2016) 50(1):135-163, ISSN 0043-7719, <http://link.springer.com/article/10.1007/s00226-015-0771-3>
2. **Timar M.C.**, Sandu I.C.A., Beldean E. Sandu I. (2014). FTIR investigation of Paraloid B72 as consolidant for old wood. Principle and case studies. *Revista de Materiale Plastice* ISSN:00255289 , <http://www.revmaterialeplastice.ro/pdf/TIMAR%20M.pdf%204%2014.pdf>
3. Tuduce (Traistaru) A.A. Sandu I.C.A., **Timar M.C.**, Dumitrescu L., Sandu I. (2013). SEM-EDX, water absorption, and wetting capability studies on evaluation of the influence of nano-zinc oxide as additive to paraloid B72 solutions used for wooden artifacts consolidation, *Microscopy research and technique* (MRT), **76** (2), 209-218, ISSN:1097-0029; <http://onlinelibrary.wiley.com/doi/10.1002/jemt.22155/citedby>
4. Gurau L., **Timar M.C.**, Porojan M., Ioras F. (2013). Image processing method as a supporting tool for wood species identification, *Wood and Fiber Science*, no3, July, 303-313; ISSN 0735-6161; <http://wfs.swst.org/index.php/wfs/article/view/1966>
5. **Timar M.C.**, Gurau L., Porojan M., Beldean E. (2013). Microscopic identification of wood species an important step in furniture conservation, *European Journal of Science and Theology*, vol9(4): 243-252, ISSN 1841-0464; [http://www.ejst.tuiasi.ro/Files/40/19\\_Timatetal.pdf](http://www.ejst.tuiasi.ro/Files/40/19_Timatetal.pdf)
6. Tuduce (Traistaru) A.A, **Timar M.C.**, Campean M., Croitoru C. (2012): Paraloid B72 versus Paraloid B72 with Nano ZnO Additive as Consolidants for Frail Wood, *Materiale Plastice*, **49** (4), 293-300, ISSN 0025-5289; <http://www.revmaterialeplastice.ro/pdf/TUDUCE%20A.pdf%204%2012.pdf>
7. **Timar MC**, Beldean E, Porojan M, Gurau G. (2009): Field testing and microscopy - important tools for a realistic long-term evaluation of wood improvement treatments, *Environmental Engineering and Management Journal EEMJ*, **8**(4): 669-678, ISSN 1582-9596; [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no4/9\\_Timar.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no4/9_Timar.pdf)
8. **Timar M.C.**, Maher K., Irle M., Mihai D. (2004). Thermal forming of chemically modified wood to make high performance plastic like composites, *Holzforschung*, **58** (5): 519-528, ISSN 0018-3830; <http://www.degruyter.com/view/j/hfsg.2004.58.issue-5/hf.2004.079/hf.2004.079.xml?rskey=BzA4Ri&result=3>
9. **Timar M.C.**, Mihai M.D., Maher K., Irle M., (2000). Preparation of wood with thermoplastic properties. Part 1- Classical synthesis, *Holzforschung*, **54** (1): 71-76, ISSN 0018-3830; <http://www.degruyter.com/view/j/hfsg.2000.54.issue-1/hf.2000.011/hf.2000.011.xml?rskey=BzA4Ri&result=2>
10. **Timar M.C.**, Maher K., Irle M., Mihai M.D., (2000). Preparation of wood with thermoplastic properties. Part 2- Simplified technologies, *Holzforschung*, **54** (1): 77-82, ISSN 0018-3830; <http://www.degruyter.com/view/j/hfsg.2000.54.issue-1/hf.2000.012/hf.2000.012.xml?rskey=BzA4Ri&result=1>
11. **Timar M.C.**, Pitman A. (1999). Biological resistance of chemically modified aspen composites, *International Biodeterioration and Biodegradation*, **43** (4): 181-187, ISSN 0964-8305; <http://www.sciencedirect.com/science/article/pii/S0964830599000529>

B. Articles in journals indexed in other international databases

12. **Timar M.C.**, Beldean E., Varodi A. (2015): The restoration camp "13 for ASTRA" – the experience of volunteering, *Pro Ligno*, 11 (1): 18-25, ISSN 2069-7430; <http://www.proligno.ro/en/articles/2015/1/timar.pdf>
13. Liu X.Y., Cionca M., **Timar M.C.** (2015), A Comparative Study Of 17th Century Ming And Western European Chairs, *European Journal of Science and Theology*, February 2015, Vol.11, No.1, 253-262. ISSN 842 – 8517, [http://www.ejst.tuiasi.ro/Files/50/24\\_Liu%20et%20al.pdf](http://www.ejst.tuiasi.ro/Files/50/24_Liu%20et%20al.pdf)
14. Andrea DEÁK, Marina CIONCA, Maria-Cristina TIMAR, Mihaela POROJAN (2015). Arguments for Reusing Old Oak Wood Recovered from Demolition, *Pro Ligno*, Vol11(3): 38-47. ON LINE ISSN 2069-7430. <http://www.proligno.ro/ro/articles/2015/3/deak.pdf>
15. Liu X.Y., **Timar M.C.**, Varodi A., Yi S.L. (2015). Tung oil and linseed oil as traditional finishing materials important for furniture conservation, *PRO LIGNO*, Vol. 11 N° 4 2015, pp. 571-579. ON LINE ISSN 2069-7430. [http://www.proligno.ro/ro/articles/2015/4/Liu\\_final.pdf](http://www.proligno.ro/ro/articles/2015/4/Liu_final.pdf)
16. **Timar M.C.**, Pop D.M., Varodi A., Lazureanu D., Tolomeiu I., Microscopy, Micro-Chemistry And Ftir As Analytical Tools For Identifying Transparent Finishes Case Studies From Astra Museum – Sibiu, *PRO LIGNO* Vol. 11 N° 4 2015, pp. 561-570, ON LINE ISSN 2069-7430. [http://www.proligno.ro/ro/articles/2015/4/Timar\\_final.pdf](http://www.proligno.ro/ro/articles/2015/4/Timar_final.pdf)
17. Babita L.L., **Timar M.C.** Conservation of polychrome wood – principles and case studies, *PRO LIGNO* Vol. 11 N° 4 2015, pp. 545-552. ON LINE ISSN 2069-7430. [http://www.proligno.ro/en/articles/2015/4/Babita\\_final.pdf](http://www.proligno.ro/en/articles/2015/4/Babita_final.pdf)
18. Beldean E., **Timar M.C.**, Varodi A. (2015). Assessing protecting efficiency of some surface treatments on fir wood after 7 years outdoor exposure, *PRO LIGNO* Vol. 11 N° 4 2015, pp. 275-282. ON LINE ISSN 2069-7430. [http://www.proligno.ro/ro/articles/2015/4/Beldean\\_final.pdf](http://www.proligno.ro/ro/articles/2015/4/Beldean_final.pdf)
19. Varodi A., Pop D.M., Babita L.L., **Timar M.C.**, Volunteering For Cultural Heritage Conservation - Two Case Studies, *PRO LIGNO* Vol. 11 N° 4 2015, pp. 537-544. ON LINE ISSN 2069-7430. [http://www.proligno.ro/ro/articles/2015/4/Varodi\\_final.pdf](http://www.proligno.ro/ro/articles/2015/4/Varodi_final.pdf)
20. Liu, X.Y., **Timar M.C.**, Varodi A.M. (2014) A Preliminary Study of Three Finishing Materials for Traditional Chinese Furniture. *Advances in Materials Physics and Chemistry*, **4**, 85-92. <http://dx.doi.org/10.4236/ampc.2014.45011>



21. **Timar M.C.**, Varodi A., Beldean E., Muscu I. (2014): "12 for a war", a peace mission – outcomes of a voluntary action meant at the conservation of cultural heritage, *Bulletin of Transilvania University of Brasov, series II, Forestry, wood industry, Agricultural food engineering*, Vol 7 (56), No.1, 59-66, ISSN 2065-2135; [http://webbut.unitbv.ro/Bulletin/Series%20II/BULETIN%20II%20PDF/09\\_TIMAR.pdf](http://webbut.unitbv.ro/Bulletin/Series%20II/BULETIN%20II%20PDF/09_TIMAR.pdf)
22. **Timar M.C.**, Beldean e. (2013): A comparative study of fir (*Abies alba* Mill) and beech (*Fagus sylvatica*) degradation in UC3, *Bulletin of Transilvania University of Brasov, series II, Forestry, wood industry, Agricultural food engineering*, vol 6 (55) No.1 pp. 39-46. ISSN 2065-2135; [http://webbut.unitbv.ro/BU2013/Series%20II/BULETIN%20II%20PDF/06\\_Timar\\_Beldean\\_.pdf](http://webbut.unitbv.ro/BU2013/Series%20II/BULETIN%20II%20PDF/06_Timar_Beldean_.pdf)
23. Timar M.C., Beldean E. Varodi A. (2013): A laboratory comparative study on the performance and reversibility of some traditional and modern adhesives for furniture conservation, *Pro Ligno*, **9** (4): 282-290; [http://www.proligno.ro/ro/articles/2013/4/Timar\\_final.pdf](http://www.proligno.ro/ro/articles/2013/4/Timar_final.pdf)
24. **Timar, M.C.**, Beldean, E., Zeleniuc, O., Varodi, A. (2012): An insight into beech wood (*Fagus sylvatica* L.) degradation, in outdoors, above ground, long-time exposure. Part. 1. *Pro Ligno*, **8** (2), 37-52, ISSN 2069-7430; [http://www.proligno.ro/ro/articles/2012/2/timar\\_full.pdf](http://www.proligno.ro/ro/articles/2012/2/timar_full.pdf). Part. 2. *PRO Ligno*, **8** (3), 53-67, ISSN 2069-7430; [http://www.proligno.ro/ro/articles/2012/3/timar\\_full.pdf](http://www.proligno.ro/ro/articles/2012/3/timar_full.pdf)
25. **Timar, M.C.**, Tuduțe (Traistaru), A., Porojan, M., Gurau, L. (2010). An investigation of consolidants penetration in wood. Part 1: General methodology and microscopy. *PRO Ligno*, **6** (4): 13-27, <http://www.proligno.ro/ro/articles/2010/4/timar.pdf>
26. **Timar, M.C.**, Tuduțe (Traistaru), A., Patachia S, Croitoru, C: (2011). An investigation of consolidants penetration in wood. Part 2: FTIR spectroscopy, *PRO Ligno*, **7**(1), pg. 25-38; [http://www.proligno.ro/ro/articles/2011/1/timar\\_full.pdf](http://www.proligno.ro/ro/articles/2011/1/timar_full.pdf)
27. Timar M.C, Gurau L., Cionca M., Porojan M. (2010): Wood species for Biedermeier furniture a microscopic characterisation for scientific conservation, *International Journal of Conservation Science*, **1** (1): 3-12, ISSN 20678223; [http://www.ijcs.uaic.ro/volume\\_1.html#Issue1](http://www.ijcs.uaic.ro/volume_1.html#Issue1)