

# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s) **Luminita Mara**

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Nationality Romanian

Date of birth 13.03.1960

Gender female

## Work experience

Period September 1984 – November 1985

Occupation or position held Diplomat Engineer

Main activities and responsibilities Coordination of the activity in liquid oxygen obtaining sectors

Name and address of employer Chemical Factory for Nonferrous Metallurgy – The Liquid Oxygen Factory, Baia-Mare, Romania

Type of business or sector Inorganic chemistry, hydro-metallurgical process

Period November 1985 – February 1987

Occupation or position held Diplomat Engineer

Main activities and responsibilities Coordination of the activity in the chemical analysis laboratory for the main phases process and control of alumina fabrication using Bayer method

Name and address of employer Alumina Factory – The Interphases Process Laboratory – C.T.C., Oradea, Romania

Type of business or sector Inorganic chemistry, hydro-metallurgical process

Period February 1987-April 1991

Occupation or position held Diplomat Engineer

Main activities and responsibilities Assistant researcher

Name and address of employer IAMN-R&D Institute for Inorganic and Nonferrous Metals, Light Weight Metals Laboratory, Bucharest, Romania

Type of business or sector Inorganic chemistry, hydro-metallurgical process

Period	April 1991-June 1995
Occupation or position held	Diplomat Engineer Scientific researcher
Main activities and responsibilities	Participant and Project Manager in national research projects
Name and address of employer	IMNR-SA , R&D Institute for Nonferrous and Rare Metals, Light Weight Metals Laboratory, Bucharest, Romania
Type of business or sector	Inorganic chemistry, hydro-metallurgical process, implementation of advanced technologies for ceramic materials, recycle of nonferrous metallurgical wastes, environment protection, alumina, aluminium and other nonferrous metals production, catalysts on ceramic supports, special alumina, inorganic refractory fibres
Period	July 1995-June 2000
Occupation or position held	Diplomat Engineer Scientific researcher III
Main activities and responsibilities	Participant and Project Manager in national research projects
Name and address of employer	IMNR-SA , R&D Institute for Nonferrous and Rare Metals, Light Weight Metals Laboratory, Bucharest, Romania
Type of business or sector	Inorganic chemistry, hydro-metallurgical process, implementation of advanced technologies for ceramic materials, recycle of nonferrous metallurgical wastes, environment protection, alumina, aluminium and other nonferrous metals production, catalysts on ceramic supports, special alumina, inorganic refractory fibres, ceramic catalyst supports
Period	July 2000-2011
Occupation or position held	Diplomat Engineer Scientific researcher II
Main activities and responsibilities	Participant in national / international research projects and Participant / Project Manager in national research projects (ORIZONT 2000, PNCDI 1 (RELANSIN), CEEX, PNCDI 2 (COMPLEX PROJECTS IN PRIORITARY DOMAINS) , CLEAN LEAD- FP 6 Project, FOND NUCLEU, SECTORIAL, INOVARE)
Name and address of employer	IMNR-SA , R&D Institute for Nonferrous and Rare Metals, (2005) INCDMNR-IMNR R&D National Institute for Nonferrous and Rare Metals, Nonferrous Metals Department / Eco-technologies & Environment Protection Laboratory
Type of business or sector	Inorganic chemistry, hydro-metallurgical process, implementation of advanced technologies for ceramic materials, recycle of nonferrous metallurgical wastes, environment protection, alumina, aluminium and other nonferrous metals production, catalysts on ceramic supports, special alumina, inorganic refractory fibres, ceramic catalyst supports, compounds used for cleaning waste waters from industry, ceramic filters for remove pollutants from gaseous effluents, micro- mezoporouse inorganic materials (powders)
<b>Education and training</b>	
Period	20 <sup>th</sup> of May 1996- 10 <sup>th</sup> of July 1996
Title of qualification awarded	Post-graduate specialization in "The New Accountancy" ~ Certificate Ministry of Education no. 1323/1994 in based HG 458/1994, Serial number A no. 1532/1996
Name and type of organisation providing education and training	ECOCONSUTING BUCURESTI, , Bucharest , Romania
Period	2000 (20 days)
Title of qualification awarded	Post-graduate specialization in R&DI Projects Management Certificate AMCSIT-UNIVERSITY POLITEHNICA OF BUCHAREST no. 346/2000
Name and type of organisation providing education and training	AMCSIT-UNIVERSITY POLITEHNICA OF BUCHAREST - Management Agency for Scientific Research, Innovation and Technological Transfer - POLITEHNICA, Bucharest, Romania

Period	1979-1984																																								
Title of qualification awarded	Metallurgical Engineer with the specialization in Extractive Metallurgical Engineering Process																																								
Name and type of organisation providing education and training	Polytechnic University of Bucharest, Faculty of Metallurgy, long-term higher education (5years), full time learning, Bucharest, Romania.																																								
Level in national or international classification	Higher education ISCED level 5																																								
<b>Personal skills and competences</b>																																									
Mother tongue(s)	romanian																																								
Other language(s)																																									
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>A2</td> <td>english</td> <td>A2</td> <td>english</td> <td>A2</td> <td>english</td> <td>A2</td> <td>english</td> <td>A2</td> <td>english</td> </tr> <tr> <td>A2</td> <td>french</td> <td>A2</td> <td>french</td> <td>A2</td> <td>french</td> <td>A2</td> <td>french</td> <td>A2</td> <td>french</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				A2	english	A2	english	A2	english	A2	english	A2	english	A2	french	A2	french	A2	french	A2	french	A2	french
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<b>Language</b>																																									
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Computer skills and competences:	<ul style="list-style-type: none"> <li>• PC operation (Word, Excel, Power Point), AutoCAD</li> </ul>																																								
Social skills and competences	<ul style="list-style-type: none"> <li>• Versatile, efficient and considerate, either as a team member or on independent assignments</li> <li>• Desire to learn more</li> <li>• Good communication skills, ability to adapt to multicultural environments</li> <li>• Good adaptability</li> <li>• Participation in research projects which required the development of partnerships between partner institutions</li> </ul>																																								
Organisational skills and competences	<p><b>2006-present</b> Member of the <b>Romanian Chemical Society</b>,</p> <p><b>1999- present</b> Good experience of project management and teamwork obtained at work as project manager and member of the international/national projects team</p> <p>Ability to use modern laboratory equipment for physico-chemical processes and the heat treatment of the metalifer ores</p>																																								
Technical skills and competences	<p>Practical skills in fields like: computers, mechanical equipment, thermo mechanical processes, physico-chemical process, materials, science:</p> <ul style="list-style-type: none"> <li>• Preparation of inorganic micro-, nanomaterials (mezoporouse powders, inorganic fibres, catalytic powders, monoliths, aggregates etc)</li> <li>• Chemical synthesis, inert atmosphere manipulations</li> <li>• Hydrometallurgical process for mineral ores</li> <li>• Industrial waste recovery technologies in "zero emission" procedures for determining environmental properties, the design and implementation</li> <li>• Project manager in national research programs, responsible for contracts with public and private partners</li> <li>• Preparation of extrudates monoliths from inorganic and ceramic materials (catalyst supports, adsorbents)</li> </ul>																																								

Other skills and competences	<p>Majors achievements</p> <p><b>Projects:</b></p> <ul style="list-style-type: none"> <li>• 2 international project (FP6, LIFE+) - as team member</li> <li>• 7 national projects (ORIZONT 2000, NUCLEU, PNCDI 1, PNCDI 2)- as principal manager</li> <li>• 5 national projects (PNCDI 1, PNCDI 2, CEEEX, SECTORIAL) –as principal manager</li> <li>• 4 national projects (PNCDI 1, PNCDI 2, SECTORIAL, INOVARE)– as team member</li> <li>• 2 collaborative projects with private business sector– as principal manager</li> </ul> <p><b>Publications:</b></p> <ul style="list-style-type: none"> <li>• 7 national patent (approved)</li> <li>• 6 national patent (in evaluation process)</li> <li>• 30 article in scientific journals</li> <li>• 12 articles in proceedings</li> <li>• 10 articles in national journals</li> </ul> <p><b>Communications:</b></p> <ul style="list-style-type: none"> <li>• 12 oral presentations at scientific meetings</li> <li>• 20 poster presentation at scientific meetings</li> </ul>
Driving licence	YES, B category from 1992
Additional information	
Annexes	List of publication

#### SELECTED PUBLICATIONS (among 30 papers)

1. *Obtaining of Hydrotalcite-based Ceramic Monoliths Through Extruzion. The Investigation of the Effect of Additives on the Rheological Behaviour of the Ceramoc Pastes*, L. Mara, S.O. Dima, A. Sarbu, Liliana Sarbu, Rodica Zavoianu, O. Pavel, D. Taloi, Revista de Chimie, VOL. 62, no.10, (2011), ISSN 0034-7752, pag. 1017-1022
2. *Obtaining of clinoptilolitic extrudates for environmental applications 1. Rheological characterization for the zeolitic pastes*, S.O Dima, A. Sarbu, L. Mara, A.L. Radu, F. Bacalum, L. Sarbu, Revista de Chimie Bucuresti 60(11) 2009, pp. 1032-1038
3. *Matemathical modeling of a Process for the Purification of waste water containing phosphorus*, Luminita Mara, Dragos Taloi, Liliana MariaVladutiu, Romanita Teodorescu, Metalurgia International, vol. XVI SPECIAL ISSUE, no. 2011, pp. 47-50
4. *Influence of the ultrasonic field on the template polymerization of acrylonitrile in inorganic structure* , Anita-Laura Radu, Andrei Sarbu, Luminita Mara, Alexandra-Sorina Garea, Anamaria Lungu, Stefan-Ovidiu Dima, Tanta-Verona Nicolescu, Horia Iovu, Revista de Materiale Plastice, 46, nr. 4, 2009, , p. 399-403
5. *New method for silicon nitride synthesis via hybrid polymer nanocomposites*, A.L. Radu, A. Sarbu, S. Motoc, L. Mara, V. Fruth-Orisan, S. A. Garea, S. O. Dima, G. Nechifor, L.Sarbu, H. Iovu, Revista de Materiale Plastice, 47, nr. 2, 2010, pp. 167-172
6. *New polymer inorganic-organic hybrids obtained through radical polymerization*, A.L.Radu, A. Sarbu, C. Damian, A. Lungu, L. Mara, R.Munteanu, L.Sarbu, H. Iovu, Scientific Bulletin UPB, Series B: Chimie and Material Science, ISSN 1454-2331
7. *Leaching of nonferrous metals from oxidized low grade complex concentrate*, T. Velea, V. Predica, L.Gherghe, D.Taloi, L.Mara, C. Lupu, Environmental Engineering And Management Journal, (2011), (accepted for publication)

8. *Procedure to obtain cooper catalyst on zirconium dioxide support*, Gheorghita M., Busila M. A., Mara E. L., Stanciu P., Journal of Metallurgy, (1999), Bucharest

SELECTED COMMUNICATIONS (12 oral presentations, 20 posters)

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1. *Removal of phenol from wastewaters using extrudates containing Mg<sub>2</sub>Al mixed oxide obtained from a hydrotalcite precursor*, Rodica Zavoianu, Anca Cruceanu, Ropot Mihaiela, Ionescu Rodica, Sârbu Andrei, Mara Eleonora Luminița, 2nd EuCheMS Chemistry Congress Torino, Italia 16-20 septembrie 2008, section V.3. Water Pollutants P-082, p.72
2. *Rheological behavior of hydrotalcite and clinoptilolite pastes for extrusion*, Liliana Sarbu, Fanica Bacalum, A. Sarbu, Rodica Zavoianu, Ovidiu Stefan Dima, Irina Bajenaru, Luminița Mara, 2nd EuCheMS Chemistry Congress Torino, Italia 16-20 septembrie 2008, section VI.3. Porous Materials P-001, p81
3. *Effects of the operating conditions on the porous monoliths from synthetic hydrotalcites and natural zeolite tuffs used in environmental applications*, L. Mara, S. Onisei, E. Sîrbu, V. Badilita, L. Enache, V. Soare, R. Zavoianu, A. Sarbu, L. Sarbu, F. Bacalum, 2nd EuCheMS Chemistry Congress Torino, Italia 16-20 septembrie 2008, sectiunea VI.3. Porous Materials P-021, p.82
4. *Removal of Organic Compounds from Waste Water using Clinoptilolite based Hybrid Structures*, I. Bajenaru, L. Sarbu, F. Bacalum, L. Badalau, A. Valcu, R. Zavoianu, L. Mara, I. Minca, 3rd EuCheMS Chemistry Congress, Ilc.031, Resources and Environment, August 29 - September 2, 2010, Nürnberg / Germany
5. *Thermoprogrammed reduction and thermoprogrammed desorption studies of metallic and oxidic catalysts*, V. Georgescu, F. Bacalum, L. Mara, The 17<sup>th</sup> Congres of the International Society for Teoretical Chemical Physics (ISRCP VII), 2- 8 sept. (2011), paper
6. *New polymer nanocomposites through radical polymerization in inorganic structures*, A.L. Radu, A. Sarbu, A. Lungu, S.O. Dima, T.V. Nicolescu, S. Garea, L. Mara, V. Fruth, Nanotech Insight Conference 2009, 28 mars to 03 april 2009, Barcelona, paper
7. *Application de la chimie hôte- invite pour l'obtention des ceramiques speciales a travers les nano composites polymeriques hybrides inorganique organiques*, A. Sarbu, A.L. Radu, A. Lungu, L. Mara, V. Fruth, S. A. Garea, H. Iovu, S. Motoc, S. O. Dima, T. V. Nicolescu, L. Sarbu, Sixième colloque franco –roumain de chimie appliquée – COFrRoCA 2010, 7 – 10 july, 2010, Orleans, France, paper
8. *Hybrid Inorganic- Organic Nanocomposites as Silicon Nitride Precursors*, A. Sarbu, I. S. Voicu, L. Mara, S. Motoc, A. Abagiu, V. Fruth, S. Garea, H. Iovu, M. Beda, L. Sarbu, 5<sup>th</sup> International Conference of the Chemical Societies of the South-Eastern European Countries on «Chemical Sciences at the European Crossroads », Sofia, Bulgaria, 2006, paper
9. *Hybrid Inorganic- Organic Nanocomposites as Silicon Nitride Precursors*, A. Sarbu, I. S. Voicu, L. Mara, S. Motoc, A. Abagiu, V. Fruth, S. Garea, H. Iovu, M. Beda, L. Sarbu, ICOSECS 5 Simpozion, 10-14 September, 2006, Ohrid, Macedonia, poster
10. *Converting eluates resulted after red mud treatment into hydrotalcite-like catalysts for cyanoethylation reaction*, R. Zăvoianu, O.D. Pavel, A. Cruceanu, C. Bradu, L. E. Mara, EuropaCat X Congress, Glasgow, Scotland, 28 August - 2 Sept 2011, poster
11. *Depollution of Gaseous Flows with Catalytic Structures Based on Natural Indigeneous Zeolite. I. The Synthesis of Catalytic Zeolitic Structures Me<sub>1</sub>-Me<sub>2</sub>*, F. Bacalum, L. Sarbu, D. Bombos, T. Bota, L. Mara, V. Badilita, 1<sup>st</sup> European Chemistry Congress, 27-31 August 2006, Budapest, Hungary, poster

12. *The study of the rheology of the ceramic pastes intended for the treatments of the emission of the compression ignition engines (Diesel)*, Mara. E. L., Sarbu A., Sarbu L., Sotca D., Vladutiu L., Taloi D., Pasat S., Pasat Gh., Craciun A., Raducanu L., Environment and Industry, Vol. II, Bucharest, 2003, ISBN: 973 – 86587– 0– 5, 973–86587–2-1, pp. 99 – 106, (Proceeding Boock)
13. *La valorisation des amas de serpentine par la nanotechnologie. Partie I- Obtention de la silice poreuse*, A. Sarbu, L. Mara, F. Stoiciu, V. Badilita, V. Fruth, H. Iovu, S. Garea, S. Motoc, L. Sarbu, M. Beda, Scientific Study & Research, Vol. VII (2006), ISSN 1582-540X
14. *La valorisation des amas de serpentine par la nanotechnologie. Partie II- Obtention des composites polymériques hybrides*, A. Sarbu, V. Fruth, H. Iovu, S. Garea, L. Vladutiu, M. Branzei, S. Motoc, L. Mara, L. Sarbu, M. Beda, Study & Research, Vol. VII, 2006, ISSN 1582-540X
15. *Considerations on Obtaining Ceramic Structures Based on Natural Indigenous Activated Clinoptilolite Zeolites – Practical Applications*, B. Viorel, L. Mara, L. Enache, E. Neagu, F. Bacalum, L. Sarbu, A. Sarbu, D. Bombos, Proceeding Boock, ISBN 973-718-534-X, 978-973-718-534-1. I
16. *Study To Establish The Optimal Technology For Processing The Serpentinite From Dubova (Mehedinti) Mine Dumps In The Aim Of Environment Reabilty. Part A: Structural, Physical and Chemical Properties of The Serpentinite Rocks From Dubova (Mehedinti) Mine Dumps*, V. Badilita, F. Stoiciu, L. Mara, L. Enache, E. Neagu, V. Soare, A. Sarbu, Proceeding ISBN 973-718-534-X, 978-973-718-534-1. I
17. *Study to Establish The Optimal Technology for Processing The Serpentine from Dubova (Mehedinti) Mine Dumps in The Aim of Environment Reabilty. Part B: Aspects Regarding The Processing Possibility of The Serpentine Rocks With The Aim of A High Degree Valorification of The Serpentine Rock Dumps and The Rehabilitation of The Dubova Region (Mehedinti)*, L. Mara, V. Badilita, L. Enache, E. Neagu, V. Soare, A. Sarbu, L. Sarbu, V. Fruth, F. Bacalum, M. Beda, Proceeding ISBN 973-718-534-X, 978-973-718-534-1. I
18. *Matemathical modeling of a Process for the Purification of waste water containing phosphorus*, Luminita Mara, Dragos Taloi, Liliana Maria Vladutiu, Romanita Teodorescu, 7<sup>th</sup> International Conference on Materials Science & Engineering – BRAMAT 2011, poster
19. *Modification of mineral surfaces for environmental application*, I. Bajenaru, E. Bacalum, L. Sarbu, F. Bacalum, L. Mara, I. Dumitriu, A. Bolma, T. Bota, International Conference on Materials Science & Engineering BRAMAT 2009, 26 – 28 february 2009, Brasov, Romania poster
20. *Modified Natural Zeolites designed for Enviromental Aplications*, I. Bajenaru, L. Sarbu, F. Bacalum, R. Zavoianu, L. Badalau, A. Valcu, I. Minca, L. Mara, V. I. Georgescu, ROMPHYSICHEM 14 – 2010, Bucharest, Romania, poster
21. *Facile synthesis of inorganic oxide/organic polymer hybrid nanocomposites through radical polymerization*, A. L. Radu, A. Sarbu, H. Iovu, S. Garea, L. Mara, V. Fruth, S. O. Dima, A. Lungu, T. V. Nicolescu, M. Beda, International Conference Bramat 2009, Brasov, 26-28 february 2009
22. *Modifications of the chemical and morphostructural characteristics of treated red mud waste*, L. Sarbu, F. Bacalum, L. Mara, V. Badilita, I. Bajenaru, L. Badalau, V. Fruth, V. Georgescu, I. Minca, 10<sup>th</sup> Colloid and Surface Chemistry Conference with international participation, Galati, 2011
23. *Polymeric Nano-composite precursors for silicon nitride synthesis*, S. Andrei, L. Mara, V. Fruth, S. Motoc, L. Sarbu, M. Beda, S. Garea, National Conference " Excellence Research, favourable premise for the development of Romanian space research, Brasov, 22-24 October, 2006
24. *Rheological behaviour of ceramic pastes intended for porous structures with mixed functionality*, L. Sarbu, F. Bacalum, A. Sarbu, L. Mara, T. Bota, M. Bombos, Symposium ICECHIM, 2006

25. *X-Ray diffraction study of the effect of heat treatment in the synthesis of cordierite*, Badilita, E. L. Mara, F. Stoiciu, A. Sarbu, L. Sarbu, L. Vladutiu, D. Taloi, CNSCSIS Conference with international participation - *Nanomaterials, new and multifunctional materials*, , 23 April (2004) Bucharest
26. *X-Ray diffraction study of the effect of of composition in the synthesis process of cordierite*, Badilita, E. L. Mara, F. Stoiciu, A. Sarbu, L. Sarbu, L. Vladutiu, D. Taloi CNSCSIS Conference with international participation - *Nanomaterials, new and multifunctional materials*, , 23 April (2004) Bucharest
27. *Structural Ceramic Materials With Special Utilisation*, E.L. Mara, V. Badilita, F. Stoiciu, L.J. Enache, E. Neagu, A. Sarbu, T. Bota, L. VLadutiu, International Conference on Advanced Materials and Technologies, ROMAT 2004, Bucuresti, Romania, 21-22 oct. 2004.

## PATENT

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1. *Catalyst for depollution gas emissions from motor vehicles and for preparing the same*, National Patent, RO119227(B1), (2004), M. Gheorghita, E.L. Mara, T. Velea, C. Gornic, A. Covrig, D.D. Ilie, Gh. Tabara Terpezan
2. *Column Flotation Cell*, National Patent, RO113317(B), (1998), G. Parasca, A. Brancusi, S. Tanase, L. Sipos, E.L. Mara
3. *Process for preparing sodium vanadat*, National Patent, RO114118(B1), (1999), L.Sipos, C. Munteanu, T.Stoean, A.Albuleanu, E.L.Mara, M.Baccela, C.Selaru, A.Anastasiu
4. *Fine crystallized aluminium hydroxide preparation process from mother-solutions from Bayer system*, National Patent, RO111566(B), (1996), L.Sipos, E.L.Mara, C. Constatin, A.Anastasiu, V.Cismaru
5. *Preparation process for the liquid sodium silicate*, National Patent, RO111565(B1), (1996), M. Gheorghita, M.A.Busila, E.L. Mara, D.D. Popescu, M.Modan, P. Stanciu, V.L. Ionescu, L.A.I. Antonescu
6. *Preparation process for powder aluminum sulphate*, National Patent, RO111261 (B1), (1996), V.L. Ionescu, D.D. Popescu, M.A. Busila, M.Modan, P. Stanciu, M. Gheorghita, E.L. Mara, L.A.I. Antonescu, F. Pana
7. *Process for processing highly disperse waste alumina*, National Patent, RO105217(B1), (1994), L.Sipos, V.Secanu, G.Dijmarescu, E.L. Mara, D. Sandu

## PATENT (proposed patent)

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1. *Process for processing serpentine, products and equipment*, National Patent, A00990/ 03.10.2010, (2010), E.L. Mara, V. Predica, A. Sarbu, L. Sarbu, L. Enache, V. Badilita, P. Capota, V. Fruth-Oprisan, S. A. Garea, V. Soare, E. Neagu, V. Purcaru, F. Stoiciu, L. Gherghe, C. Lupu, M. Ghita, A. Ispas, A. Lungu
2. *Process for processing industrial waste red-mud using process water*, National Patent, A00965/28.09.2011, (2011), L. Sârbu, F. Bacalum, I. G. Bajenaru, R. Zavoianu, A.Cruceanu, E. L. Mara, V. Badilita, S. L. Gherghe, L.M. Vladitiu, V. Georgescu
3. *Based composite hydrotalcites type and compounds with clinoptilolite tuff, and their use procedure for obtaining water treatment*, National Patent, A01118 din 16.11.2010, (2010), R. Zavoianu, L. Sarbu, E.L. Mara, R. Birjega, A. Bolma, A. Cruceanu, O.D. Pavel, F. Bacalum, C. Niculescu, Butka Coloman, E. Nechita
4. *Process to obtain micro-and nano ceramic foams with polymer gels*. National Patent, A00133/16.02.2011, (2011), A.Sarbu, A.Lungu, E. L.Mara, V. Fruth- Oprisan, M. Teodorescu, P. Vasilescu, S. A. Garea, D. Bombos, H. Iovu, L.Sarbu, A. L.Ciripoiu, E. Zaharia
5. *Process to obtain silicon nitride with tailored template*, National Patent, A00229(A2)/27.03.2008, (2008), A. Sarbu, E.L. Mara, T.A. Abagiu, S. Motoc, V. Fruth-Oprisan, H. Iovu, S. Garea, M. Beda, L. Sarbu, A.L. Radu, S.O. Dima

6. *Mesoporous silica and process for obtain it*, A00301(A2)/17.04.2008, (2008), E.L. Mara, T. Velea, A. Sarbu, L. Sarbu, M. Beda, A.T. Abagiu, S. Motoc, V. Fruth-Oprisan, S.A. Garea, S. Onisei, E. Sirbu

PARTICIPATION IN RESEARCH PROJECTS as manager / responsible project /member team (2003-2011)

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1. *Multifunctional oxidic materials for environment applications, obtained by treatment and innovative use of red mud waste from alumina production - MOLVALNR*. PNCDI 2, No. 32159, 195k€ (2008-2011), as manager
2. *Polymer nanocomposite ceramic foams to clean gaseous streams from thermal power plants*, PNCDI 2, No. 22123, 38 k€ (2008-2011), as responsible (partner)
3. *Advanced materials derived from compounds of type hydrotalcites and clinoptilolite to remove pollutants from wastewater and liquid oil fraction environmentally friendly methods (ECOPAM)*, PNCDI 1, no. 71043/2007-2010, 89, k€ (2007-2010), as responsible (partner)
4. *Inorganic-organic hybrid nanostructures based on vinyl polymer and serpentinite to obtain advanced composites*, Excellence Research Programme – Ministry of Research, Romania, Nr. 12/2005, 80 k€ (2005-2008), as responsible (partner)
5. *New materials for the catalytic remediation of industrial gaseous effluents*, 14 k€ (2005-2008), as responsible (partner)
6. *Devices catalytic afterburner for the remediation of emissions from internal combustion engines*, RELANSIN, No. 84/2003, (2003-2004), as manager
7. *Multi-functional materials from composites and technical ceramics with pre-set properties– Particulate filters for industrial use in SEM of Metallurgy*, PN no. 2005, as responsible
8. *Recovery of natural products in the industrial wastewater treatment containing oil*, SECTORIAL Program, No. 12/2011, 48 k€ (2011-2012), as responsible (partner)
9. *UE Competitive and Sustainable Growth Programme/ CLEANLEAD Project/GRDI-2000-25072*, FP6, as member team
10. *Microwaves ecofriendly alternative for a safe treatment of medical waste*, Project/LIFE10ENV/RO731, LIFE Program (2011-2013), as member team.