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**Date and place of birth:** 27.06.1949, Stremti-Basesti, Maramures county, ROMANIA

**Nationality:** ROMANIAN

**Marital status:** married, two children

**Education:**

- 1972 "Politehnica" University of Timisoara, Industrial Chemistry Faculty, "Inorganic Chemistry and Technology Department", Chem. Engineer Diploma
- 1989 "Politehnica" University of Timisoara, Industrial Chemistry Faculty, Inorganic Technology, Solid State Chemistry Department, PhD., Thesis Topic: "Cobalt Based Thermoresistant Inorganic Pigments"

**Career/Employment (employers, positions and dates)**

**Research Activity**

1972 - 1973: Diplom.chem.eng., at. Design Institute for Inorganic Industry, "IPRAN" Bucharest

1973 to date Scientific researcher, Inorganic Chemistry Department, Institute of Chemistry of Romanian Academy

1973 - 1980: Diplom.chem.eng;

1980 - 1990: Scientific researcher;

1990 - 1992: Main scientific researcher, III

1992 - 2002: Main scientific researcher, II

2002 to date : Main scientific researcher, I, Professor

1996 to date: Scientific coordinator of Oxide Compounds Team (4 scientific researchers)

1996 to date: Project manager

2004 -2015 : Head of Inorganic Department (25 researchers)

**Academic Activity**

1975 - 1979: Associated Assistant: "Politehnica" University of Timisoara, Faculty of Industrial Chemistry, Department of Analytical and Inorganic Chemistry

1981-1986: Associated Lecturer: "Politehnica" University of Timisoara, Faculty of Industrial Chemistry, Department of Analytical and Inorganic Chemistry;

1998-2003: Associated Professor: "Banatul" University of Timisoara, Faculty of Natural Sciences, Department of Environmental Protection

**Specialization**

(i) **main field:** Advanced Materials Chemistry. Oxide Compounds and Nanocomposites. Solid State Reactions, Soft-Chemistry (sol-gel processing, sonochemistry).

(ii) **other fields:** Environmental studies concerning ultrasound power effect upon soil decontamination by heavy metals, pollutant's chemistry.

(iii) **current research interest:** *Synthesis and characterisation* of amorphous and crystalline solids, bulk-compounds and nanocomposites, with magnetic, optical, electrical properties, by using ceramic, and sol-gel synthesis of oxide material based on the inorganic polymerization of molecular precursors. Sonochemical synthesis of phosphors, silica and hybrid (organic-inorganic) mesoporous matrices, and Fe<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> polymeric gels and composites, in addition with certain metallic cations (Li<sup>+</sup>, Ni<sup>2+</sup>, Cd<sup>2+</sup>, Zn<sup>2+</sup>, Cu<sup>2+</sup> Mn<sup>2+</sup> etc.) obtaining ferrite like compositions, drug carriers, smart drug delivery systems. Investigation techniques: Thermal analysis, Spectroscopic Methods (UV – VIS – IR), Electron Microscopy (SEM, TEM, AFM), Small Angle Spectroscopy (SANS, SAXS), X-ray, Neutron and Electron Diffraction, Moessbauer Spectroscopy, VSM, SQUID, BET, Rheology.

**Industry Experience:**

1974- 1998 Research contracts to Industry (~ 54), Patents (9)

**Grants**

1998- 2000, 2003-2005, CNCSIS 2Grants (director)

2005 - 2007 Grant of Excellency (director) and other 4 Grants of Excellency, (as director of Partner Research Team)

**International Collaborations**

- 2000-to date - Academy of Science of Czech Republic – Institute of Inorganic Chemistry and Joint Institute of Physics, Czech Republic

- 2003 to date - Neutron Spectroscopy Department, Research Institute For Solid State Physics And Optics

of the Hungarian Academy of Sciences, Hungary  
-2004 to date - Novi Sad University, Faculty of Technology, Belgrade University, Serbia  
-2002-2003 - Frank Laboratory of Neutron Physics, IUCN - Dubna, Russia

**Expert Evaluator:**

2002 to date - National projects expert evaluator;  
2006- to date EC expert evaluator, Eu. Rapporteur  
2007-up to date\_ expert evaluator Czech Science Foundation (GA CR)

**Membership of Professional Societies:**

- Romanian Society of Chemistry;  
- Multidisciplinary Research from Vest Zone of Romania, Romania-Yugoslavia-Hungary, ACM-V Association;  
- International Sol- Gel Society –ISGS

**Foreign languages:** English, French

**Selected publications:**

1. Putz A.M., **Savii C.**, Ianăși C., Dudás Z., Székely K.N., Plocek J., Sfârloagă P., Săcărescu L., Almásy L. Pore ordering in mesoporous matrices induced by different directing agents  
*J. Porous Mater.* 22(2), 321-331, **2015**
2. Kiss M.L., Chirita M., Ieta A., Săcărescu L., **Savii C.**  
Top down Synthesis of Mesocrystalline  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Submillimeter Sized Rhombohedrons  
*Particul.Sci.Technol.* **2015**  
<http://dx.doi.org/10.1080/02726351.2015.1090508>
3. Kiss M.L., Chirita M., Banica R., Ieta A., Savii C., Grozescu I.  
Transition from single crystalline FeCO<sub>3</sub> to layered and ordered nanostructured  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>  
*Mater. Lett.* 158, 214-217, **2015**
4. Chirita M., Kiss M. L., Savii C., Magnetite, Properties and Modern Biomedical Applications (Cpt. 4) *in Magnetite Synthesis, Uses, and Biological Occurrence*, Series: *Chemistry Research and Applications*, J. Ward Ed., Ed. NOVA Science Publisher, NY, USA, 2014, pp.119-182, (ISBN:978-1-63321-602-0)
5. **Savii C.**, Putz A.M.  
Advances in (bio)responsive nanomaterials  
*Carbon Bonding And Structures: Advances In Physics And Chemistry*, Springer Verlag, Berlin-London-New York (Putz M.V. - Editor), **2011**, 379-435, (ISBN: 978-94-007-1732-9)
6. Savii C., Almásy L., Ionescu C., Kinga Székely N., Enache C., Popovici M., Sora I., Nicoara D., Savii G.G., Susan Resiga D., Subrt J., Štengl V.  
Mesoporous silica matrices derived from sol-gel process assisted by low power ultrasonic activation,  
*Proc. Appl. Ceram., PAC 3*, [1-2] 59-64, **2009** [ISSN: 1820-6131]  
<http://www.tf.uns.ac.rs/publikacije/PAC/tablescontents.html>
7. Lancok A., Bezďicka P., Klementova M., Zaveta K., **Savii C.**  
*Fe<sub>2</sub>O<sub>3</sub>/SiO<sub>2</sub> Hybrid Nanocomposites Studied Mainly by Moesbauer pectroscopy*  
*Acta Phys.Polon.A*, 113 (1) 577-581, **2008** (ISSN 0587-4246)
8. **Savii C.**, Ionescu C., Popovici M. Enache C., Radu R.: Nonionic Organic-Inorganic Hybrid Materials (chapter 6) in *New Trends in Nonionic (Co)Polymers and Hybrids*, Eds.: E. S. Dragan, Ed. Nova Science Publisher, New York, Pub. Date: 2006, ISBN: 1-60021-051-1
9. M. Popovici, M. Ghich, D. Niznansky, A. Roig, **C. Savii**, Ll. Casas, E. Molins, K. Zaveta, C. Enache, J. Sort, S. de Brion, G. Chouteau, J. Nogues, Optimized Synthesis of the elusive  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Phase via Sol-Gel Chemistry, *CHEM. MATER.*, 2004, 16, 5542-5548
10. Popovici M, Gich M, Roig A, **Savii C.**, et al., Ultraporous single phase iron oxide-silica nanostructured aerogels from ferrous precursors, *LANGMUIR* 20 (4): 1425-1429 FEB 17 2004
11. Caizer C, Popovici M, **Savii C.**, Spherical (Zn delta Ni1-delta Fe<sub>2</sub>O<sub>4</sub>)( $\gamma$ ) nanoparticles in an amorphous (SiO<sub>2</sub>)(1- $\gamma$ ) matrix, prepared with the sol-gel method, *ACTA MATERIALIA* 51 (12): 3607-3616 JUL 16 2003

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## List of publications (articles, books, chapters, studies published)

### Books Chapters

Chirita M., Kiss M. L., **Savii C.**,

Magnetite, Properties and Modern Biomedical Applications (Cpt. 4)

*Magnetite Synthesis, Uses, and Biological Occurrence*, Series: *Chemistry Research and Applications*, J. Ward Ed., Ed. NOVA Science Publisher, NY, USA, **2014**, pp.119-182, (ISBN:978-1-63321-602-0)

**Savii C.**, Putz A.M.

Advances in (bio)responsive nanomaterials

*Carbon Bonding And Structures: Advances In Physics And Chemistry*, Springer Verlag, Berlin-London-New York (Putz M.V.- Editor), **2011**, 379-435, (ISBN: 978-94-007-1732-9)

**Cecilia Savii**, C. Ionescu, M. Ioana Popovici, C. Ștefania Enache, R. Radu,

Cap 6. *Nonionic Organic-Inorganic Hybrid Materials*, (p. 215-261) din: *New Trends in Nonionic*

*(Co)Polymers and Hybrids*, Editor: Ecaterina Stela Dragan, Ed. Nova Science Publisher, New York, Pub. Date: **2006**, ISBN: 1-60021-051-1.

I. Sora, D. Nicoara, N. Muntean, **Cecilia Savii**, L. Vekas, Doina Bica,

*Echipamente ultraacustice pentru procesarea performanta in medii lichide*

Editura "Orizonturi Universitare" Timisoara, 2001, 165p.

ISBN 973-8109-98-1

### Journal publications

Putz A-M., Len A., Ianăși C., **Savii C.**, Almásy L.

Ultrasonic preparation of mesoporous silica using pyridinium ionic liquid

KOREAN JOURNAL OF CHEMICAL ENGINEERING, **2016**, 33 (3). pp. 749-754. ISSN 0256-1115

Putz A.M., **Savii C.**, Ianăși C., Dudás Z., Székely K.N., Plocek J., Sfârloagă P., Săcărescu L., Almásy L.  
Pore ordering in mesoporous matrices induced by different directing agents

*J. Porous Mater.* 22(2), 321-331, **2015**

Kiss M.L., Chirita M., Banica R., Ieta A., **Savii C.**, Grozescu I.

Transition from single crystalline FeCO<sub>3</sub> to layered and ordered nanostructured  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>

*Mater. Lett.* 158, 214-217, **2015**

Kiss M.L., Chirita M., Ieta A., Sacarescu L., **Savii C.**

Top down Synthesis of Mesocrystalline  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Submillimeter Sized Rhombohedrons

*Particul.Sci.Technol.* **2015**

<http://dx.doi.org/10.1080/02726351.2015.1090508>

Accepted author version posted online: 17 Sep 2015

Buta I., Ianasi C., **Savii C.**, L Cseh L., Bakardieva S., Linert W., Costisor O.

Synthesis and Characterization of New Heterometallic Cobalt-Zinc Oxalates Linked by Organic Amines

*Rev. Chim.*, 65(4), 416-420, **2014**

Mitică S., Enache C., **Savii C.**, Ordodi V., Dudas Z., Lăzărescu A., Muntean D.  
Assessment of permeability transition in isolated rat heart mitochondria: standardization of membrane potential and calcium retention capacity measurements  
*Romanian Journal of Biochemistry*, 46 (Supplementa), 35-36, **2009** (ISSN 1582-3318).

**Savii C.**, Almásy L., Ionescu C., Kinga Székely N., Enache C., Popovici M., Sora I., Nicoara D., Savii G.G., Susan Resiga D., Subrt J., Štengl V.  
Mesoporous silica matrices derived from sol-gel process assisted by low power ultrasonic activation,  
*Proc. Appl. Ceram., PAC* 3, [1-2] 59-64, **2009** [ISSN: 1820-6131]

A. Lancok, P. Bezduka, M. Klementova, K. Zaveta, **C. Savii**  
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*Acta Physica Polonica A*, **2008**, 113, 1, 577-581

I. Iazau, R. Ianos, C. Pacurariu, **C. Savii**  
Spinel Preparation by Combustion Synthesis; The Influence of Synthesis Conditions on the Features of the Resulted Spinel  
*Romanian Journal of Materials*, **2008**, 38, 3, 224-232

E. Făgădar-Cosma, C. Enache, G. Făgădar-Cosma, C. Savii, R. Gavrilă:  
Design of Hybrid Nanomaterials Based on Silica-Porphyrin. AFM Characterization,  
*J. Optoelect. Adv. Mat.*, 9(6), 1878-1882, **2007**

E. Făgădar-Cosma, C. Savii, C. Enache, C. Ionescu, R. Radu, G. Făgădar-Cosma, S. Farcas: Advanced Silica-Matrix Material Entrapping a Hydroxysubstituted Porphyrin compound. Synthesis and Characterization,  
*J. Optoelect. Adv. Mat. – Rapid Communications*, 3(1), 133–136, **2007**

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*Magnetic ε-Fe<sub>2</sub>O<sub>3</sub> nanoparticles obtained by sol-gel synthesis*,  
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E. Făgădar-Cosma, B. Maranescu, C. Enache, **C. Savii**, G. Făgădar-Cosma,  
*Alternative pentru obținerea 5,10,15,20-Tetrakis(4-hidroxifenil)-21H,23H porfina. Caracterizare fizico-chimică*,  
*Revista de Chimie*, **2006**, vol. 57, nr. 11, 1144-1147

M. Popovici, M. Gich, **C. Savii**:  
*Ultra-light sol-gel derived magnetic nanostructured materials*,  
*Romanian Reports in Physics*, **2006**, 58(3), 341-350

Popovici M., **Savii C.**, Enache C., Niznansky D., Šubrt J., Vecernikova E.:  
Sol-Gel Derived Iron Oxide–Silica Nanocomposites Starting from Iron Chloride and Iron Nitrate  
*J. Optoelect. Adv. Mater.* 7 (5), 2655-2664, **2005**

Popovici M., Ghich M., Niznansky D., Roig A., **Savii C.**, Casas L., Molins E., Zaveta K., Enache C., Sort J., de Brion S., Chouteau G., Nogues J.:  
Optimized Synthesis of the elusive ε-Fe<sub>2</sub>O<sub>3</sub> Phase via Sol-Gel Chemistry.,  
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Lančok, A.; Závěta, K.; Popovici, M.; **Savii, C.**; Gich, M.; Roig, A.; Molins, E.; Barčová, K., Mössbauer studies on ultraporous Fe-Oxide/SiO<sub>2</sub> aerogel

*Hyperfine Interactions*, 2005, Volume 165, Numbers 1-4, pp. 203-208(6)

M. Popovici, M. Gich, A. Roig, L. Casas, E. Molins, C. Savii, D. Becherescu, J. Sort, S. Suriñach, J. S. Muñoz, M. D. Baró, J. Nogués,  
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C. Caizer, Cecilia Savii, M. Popovici,  
*Magnetic behaviour of iron oxide nanoparticles dispersed in a silica matrix*,  
*Materials Science and Engineering* vol. 97 (2) 2003, 129-134

C. Caizer, M. Popovici, C. Savii,  
*Acta Materialia*, 2003, 51(12) 3607-3616

M. Popovici, C. Savii, D. Niznansky, J. Subrt, J. Bohacek, C. Caizer, C. Enache, C. Ionescu,  
*Nanocrystalline Ni-Zn ferrites prepared by sol-gel method*,  
*Journal of Optoelectronics and Advanced Materials*, 2003 5(1) 251-257

C. Enache, R. Turcin, C. Savii, M. Popovici, R. M. Jurca, V. Socoliuc,  
*Manganese activated (2-x)ZnO·xCdO·1.1SiO<sub>2</sub> phosphors obtained by solid state synthesis*, *Journal of Optoelectronics and Advanced Materials*, 2003, 5(1) 305-313

C. Savii, Mihaela Popovici, Corina Enache, J. Subrt, D. Niznansky, Snejana Bakardjieva, C. Caizer, I. Hrianca,  
*Fe<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub> composites obtained by sol-gel synthesis*,  
*Solid State Ionics*, 2002, 151(1-4) 219-227

I. Hrianca, C. Caizer, C. Savii, M. Popovici, *Magnetic and structural properties of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles dispersed in silica matrix*,  
*J. Optoel. Adv. Mat.*, 2000, 2(5) 634-638

C. Savii, T.P. Tăvală, V. Florea, Corina Enache,  
*CaO-SnO<sub>2</sub>-SiO<sub>2</sub>-Cr<sub>2</sub>O<sub>3</sub> Pink Heteromorphic Pigments. I. Synthesis and Properties*,  
*Rev. Mat. Constr.*, 1997, 27(2) 103 - 105 (ROM)

C. Savii, T.P. Tăvală, V. Florea, Corina Enache,  
*MnO - Al<sub>2</sub>O<sub>3</sub> Pink Heteromorphic Pigments. I. Synthesis and Properties*,  
*Rev. Mat. Constr.* 1996, 26(2) 106 - 109 (ROM)

C. Savii, T.P. Tăvală, V. Cocheci, V. Florea, G.G. Savii,  
*Blue and green pigment structure in CoO-Al<sub>2</sub>O<sub>3</sub>-Cr<sub>2</sub>O<sub>3</sub> system.*,  
*Rev. Roum. de Chim.* 1994, 39(8) 927-933.

C. Savii, T.P. Tăvală, C. Aumuller, G.G. Savii,  
*Sinteza unor pigmenți anorganici termorezistenți pe bază de cobalt. II. Evaluarea unor parametri cinetici pe baza datelor termogravimetric*,  
*Rev. de Chimie*, 45, 2, 1994, p. 104-108

C. Savii, T.P. Tăvală, L. Eremie, Corina Popăilă,  
*Sinteza unor pigmenți anorganici termorezistenți pe bază de cobalt. I. Studiul termogravimetric și termodiferențial al unor compoziții din sistemul oxidic CoO-Al<sub>2</sub>O<sub>3</sub>-Cr<sub>2</sub>O<sub>3</sub>*,  
*Rev. de Chimie*, 44, 9, 1993, p. 810-812

C. Savii, T. P. Tavală, Corina Polverejan, V. Florea,  
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Impact in Emails Quality Optimization,  
*Rev. Mat. Constr.*, **1992**, 22(2) 114-118(ROM)

T.P.Tăvală, C. Savii, L.Eremie, Corina Popăilă, Corina Polverejan,  
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*Rev.Mat.Constr.*, **1992**, 22(3) 205-209(ROM)

C. Savii, T.P.Tăvală, Corina Popăilă, L.Eremie, V.Florea,  
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and properties,  
*Rev. Mat. Constr.*, **1991**, 21(4) 272-278(ROM)

C. Savii, T.P. Tavală, N. Branzan, G.G. Savii,  
*Computation of colour of heteromorphic pigments*,  
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Putz A-M, Ianăși C., Dascălu D., Savii C.  
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Tetrafluoroborate Ionic Liquid (January-June2010)  
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Savii C., Muntean D.  
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C.Enache, E.Făgădar-Cosma, C. Savii, R.Gavrilă:  
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Enache C., Savii C., Făgădar-Cosma E., Dascălu D., Ionescu C.:  
FT-IR and AFM Characterisation of Sol-Gel Derived Nanocrystalline  $Zn_2SiO_4:Mn^{2+}$  Phosphors, *Annals  
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*Compounds and Solid Solutions Formation in the ZnO-CdO-SiO<sub>2</sub> System. Part I. The Interaction of the  
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*SiO<sub>2</sub>/PVA Sol-Gel Derived Hybrid Matrixes*,  
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*Ultrasonic field effects studies in synthesis of some phosphors from MeO-SiO<sub>2</sub>:Mn<sup>2+</sup>.II. Comparative investigations concerning luminescence properties,*  
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T.P.Tăvală, D.Becherescu, **C. Savii**, A. Balint,  
*Studiul spectroscopic în IR și VIS al unor pigmenți în sistemul NiO-TiO - aM<sub>2</sub>O<sub>3</sub>,*  
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**C. Savii**, T.P.Tavala, V.Florea,  
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**List of research grants as project coordinator**

Grant ANSTI Nr. 4119/1998 , Denumire proiect: “ Studiul efectelor campului ultrasonor in sinteza unor compusi apartinand sistemului  $\text{SiO}_2\text{-MeO}$  (Me : Cd, Fe, Mg, Zn, Mn)”, Director grant : **Cecilia Savii**

Grant CNCSIS, 2002, Tip A, COD CNCSIS: \_583, Denumire proiect: NANOCOMPOZITE IN SISTEMUL  $\text{SIO}_2\text{-FE}_2\text{O}_3\text{-MXOY}$ , CU PROPRIETATI MAGNETICE SPECIALE, OBTINUTE PRIN SOL-GEL SI SONOSITEZA, Director Grant . **Cecilia Savii**

Proiect CEEX Modulul 1, NR CONTRACT: 38/2005 , Denumire proiect:  
“ NANOMATERIALE CU POROZITATE CONTROLATA SI PROPRIETATI MAGNETICE SI OPTICE DIRIJATE, OBTINUTE PRIN METODA SOL- GEL SI SONOSINTEZA, CU POTENTIAL APLICATIV IN PROTECTIA MEDIULUI, BIOLOGIE SI MEDICINA”,  
Acronim –NANOBIOMED-, Director proiect: **Cecilia Savii**

## List of research grants as partner team leader

CEEX nr.51 /2006, Metode neconventionale de sinteza a compusilor oxidici-elaborarea bazelor teoretice si aplicatii in sinteza unor materiale cu proprietati dirijate. Incheiat intre Universitatea POLITEHNICA din Timisoara si Institutul de Chimie Timisoara al Academiei Romane

Coordonator: Facultatea de Chimie Industriala si Ingineria Mediului Timisoara.

Director de proiect: dr. ing. Ioan Lazau,

Responsabil partener 2: Dr. Ing. **Cecilia Savii**.

PNCDI II, Proiectul nr.: D1 10055/14 Sept. 2007, incheiat în cadrul Programului 4 – PARTENERIATE IN CADRUL DOMENIILOR PRIORITARE - DIRECTIA DE CERCETARE 7

Tehnologii inovative de obtinere prin pulverizare termica a microstraturilor compozite de tip cermet anticorozive si antiuzare, incheiat intre Incheiat intre Universitatea POLITEHNICA din Timisoara si Institutul de Chimie Timisoara al Academiei Romane

Acronim: MICROCER

Director proiect: Prof.dr.ing. Viorel-Aurel Serban, Universitatea Politehnica Timisoara,

Responsabil proiect ICT-Partener 2- Dr. Ing. **Cecilia SAVII**

CEEX, Modul I tip P-CD, Program CALIST, nr. 6111/2005, subcontract 98/2005, intre Institutul National de Cercetare-Dezvoltare pentru Microtehnologie Bucuresti si Institutul de Chimie Timisoara al Academiei Romane

Titlul proiectului: Retea de servicii stiintifice de structurare si caracterizare la scara nanometrica, cu aplicatii in dezvoltarea de tehnologii convergente - NANOSCALE-CONV, incheiat intre Institutul National de Cercetare-Dezvoltare pentru Microtehnologie Bucuresti si Institutul de Chimie Timisoara al Academiei Romane

Director proiect Dr. Muller Raluca

Responsabil proiect partener P11: Dr. Ing. **Savii Cecilia**

CEEX, Modul I tip P-CD Program RELANSIN intre Institutul National de Cercetare-Dezvoltare in Sudura si Incercari de Materiale, ISIM Timisoara si Institutul de Chimie Timisoara al Academiei Romane

Titlul proiectului: Centrul virtual pentru tehnologii integrate cu aplicatii ale energiei electroultraacustice in ingineria materialelor avansate-ULTRATECH

Director de proiect: ing. Oanca Octavian (Institutul National de Cercetare-Dezvoltare in Sudura si Incercari de Materiale Timisoara)

Responsabil proiect partener P6: Dr. Ing. **Savii Cecilia**

## Granted patents

### List of granted patents

1. T.P.Tăvală, M.Oprescu, N.Brînzan, **Cecilia Savii**, V.I.Gavrilă, *Procedeu de obținere a unor pigmenți galbeni și portocalii în sistemul  $\text{CuO-TiO}_2\text{-Sb}_2\text{O}_5$* . Nr. 70666/1979.
2. T.P.Tăvală, V.Florea, Cecilia Savii *Procedeu de preparare a unor pigmenți roz, roz-violaceu*. Nr. 107207/1982.
3. T.P.Tăvală, V.Florea, **Cecilia Savii** *Procedeu de preparare a unor pigmenți în sistemul  $\text{Cd(S,Se)-SiO}_2$* . BI Nr. 85743/1984.
4. T.P.Tăvală, **Cecilia Savii**, V.Florea *Procedeu de preparare a unor pigmenți violeți-liliachii termorezistenți în sistemul  $\text{CoO-SiO}_2$* . BI Nr.88613/1985.
5. **Cecilia Savii**, T.P.Tăvală, V.Florea *Pigment gri și procedeu de realizare*. BI Nr.96785/1988.
6. **Cecilia Savii**, T.P.Tăvală *Procedeu de preparare a unui pigment gri în sistemul  $x\text{Cr}_2\text{O}_3\text{-TiO}_2\text{-yV}_2\text{O}_5\text{-Sb}_2\text{O}_5$* . BI Nr.96786/1988.
7. T.P.Tăvală, **Cecilia Savii**, Șt.Bozan *Procedeu de preparare a unor pigmenți portocalii în sistemul  $\text{Cd(S,Se)-xTiO}_2$* . Nr.100211/1989.
8. T.P.Tăvală, D.Becherescu, S.Vlaicu, **Cecilia Savii**, Laura Oprean, Rodica Munean *Procedeu de preparare a unui pigment roșu portocaliu termorezistent*. BI Nr.102125/1990.
9. G.Rău, V.Florea, T.Crețu, T.Tăvală, **Cecilia Savii**, *Instalație cu funcționare în regim continuu pentru obținerea pigmentilor pe bază de oxizi de fier*. BI Nr. 3634/1994.

## Significant R&D projects for enterprises

List of significant R&D projects for enterprises (extract list from 54 contracts)

Nr. crt	Denumirea temei de cercetare	Anul	Beneficiarul cercetarii
3	Elaborarea a patru pigmenti anorganici in faza de laborator si caracterizarea a patru pigmenti din faza pilot, partea V-a	1976	Uzinele "Emailul Rosu" Medias
4	Studiul conditiilor de recuperare a cuprului din deseurile de pertinax placat cu cupru Obtinerea unor saruri de cupru din solutii uzate de clorura cuprica: -sulfat de cupru pentahidrat; -oxiclorura de cupru; -pigment galben pe baza de cupru	1976	I.I.L. "ILCHIM Timisoara"
8	Proces tehnologic pentru prepararea feritelor de litiu	1977	I.C.Orastie
13	Oxizi de fer pentru ferite, III	1979	I.C.Orastie
16	Tehnologie pentru separarea ferului din concentrate ilmenitice indigene. Pigmenti anorganici pe baza de rutil sintetic	1980	ICECHIM-CCF-Bucuresti
25	Optimizarea tehnologiei emailului colorat prin corelarea interactiunilor frita-pigment-opacizant	1986	C.C.S.I.T.A.C. Medias, Sectia IV
26	Sortimente de polimeri si copolimeri stirenici colorati cu pigmenti romanesti	1986	ICECHIM-CCMP Ploiesti
28	Sinteza pigmentilor anorganici termorezis-tenti destinati colorarii teflonului folosit la izolarea conductelor de conexiune	1987	ICPE Bucuresti
36	Masurarea si calculul caracteristicilor colorimetrice ale pigmentilor destinati colorarii inlocuitorilor de piele prin folosirea tehnicilor automate de calcul	1989	Intreprinderea "Victoria" Timisoara
45	Cercetarea mecanismelor fizico-chimice care determina aderenta straturilor vitroase de email pe suprafata de otel	1993	SC CASSTIL SA Medias