

Lista de lucrari – Dr. CSEH Liliana

A. Teza de doctorat:

In anul 2005 am sustinut teza de doctorat la Universitatea Politehnica Timisoara, Facultatea de Chimie Industriala si Ingineria Mediului; titlul tezei de doctorat: „Contributii la sinteza unor liganzi organici pentru obtinerea unor complecsi cu proprietati potentiale de cristale lichide” conducator stiintific Prof. dr. Carol Csunderlik (in dosar se afla copia legalizata a diplomei Nr. 1183 din data de 20.12.2005).

B. Articole publicate in jurnale de specialitate cotate ISI

- L1. X. Zeng, F. Liu, A. G. Fowler, G. Ungar, L. Cseh, G. H. Mehl, J. E. Macdonald
3D ordered gold strings by coating nanoparticles with mesogens
Adv. Mater., 2009, 21(17), 1746 – 1750.
-articolul a fost selectat pentru a fi coperta revistei cu numarul 21(17) din 2009.
- L2. L. Cseh, G. H. Mehl
The design and investigation of room temperature thermotropic nematic gold nanoparticles
J. Am. Chem. Soc. 2006, 128, 13376-13377.
- L3. L. Cseh, X. Mang, X. Zeng, F. Liu, G. H. Mehl, G. Ungar, G. Siligardi
Helically twisted chiral arrays of gold nanoparticles coated with a cholesterol mesogens
J. Amer. Chem. Soc., 2015, 137(40), 12736-12739.
- L4. M.-H. Yen, J. Chaiprapa, X. Zeng, Y. Liu, L. Cseh, G. H. Mehl, G. Ungar
Added alkane allows thermal thinning of supramolecular columns by forming superlattice-
An X-ray and neutron study
J. Amer. Chem. Soc., 2016, 138(18), 5757-5760.
- L5. X. Yao, X. Zeng, M. Xue, L. Cseh, Y. Liu, G. Ungar
Body-centred cubic packing of spheres – The ultimate thermotropic assembly mode for
highly divergent dendrons
Nanoscale Horiz., 2017, 2, 43-49.
-articolul a fost selectat pentru a fi coperta revistei cu numarul 2 din 2017.
- L6. C. M. Bucovicean, H. Dong, X. Zeng, A.-M. Pana, I. Pausescu, O. Costisor, L. Cseh*
Study of molecular order, mesogenic and fluorescent properties of 2,4-bis(4-
dodecyloxybenzylidene) cyclohexanone
J. Mol. Liq., 2014, 195, 69–72.

- L7. Y.X. Li, F. F. Fan, J. Wang, L. Cseh, M. Xue, X. B. Zeng, G. Ungar
New type of columnar liquid crystal superlattice in double-taper ionic minidendrons
Chem. Eur. J., 2019, 25(60), 13739-13747.
-articolul a fost selectat pentru a fi coperta revistei cu numarul 25(60) din 2019.
- L8. L. Cseh, G. H. Mehl
Structure-property relationships in nematic gold nanoparticles
J. Mater. Chem., 2007, 17(4), 311-315
-articol highlight
-articolul a fost selectat pentru a fi coperta revistei cu numarul 17(4) din 2007
- L9. X. Zeng, L. Cseh, G. H. Mehl, G. Ungar
Testing the triple network structure of the cubic Im3m (I) phase by isomorphous replacement and model refinement
J. Mater. Chem., 2008, 18 (25), 2953-2961
-articolul a fost selectat pentru a fi coperta revistei cu numarul 18(25) din 2008.
- L10. X. Mang, X. Zeng, B. Tang, F. Liu, G. Ungar, R. Zhang, L. Cseh, G. H. Mehl
Control of anisotropic self-assembly of gold nanoparticles coated with mesogens
J. Mater. Chem., 2012, 22, 11101-11106.
- L11. F. G. Erko, L. Cseh, J. Berthet, G. H. Mehl, S. Delbaere
Synthesis and photochromic properties of a bis(diarylethene)-naphthopyran hybrid
Dyes Pigments, 2015, 115, 102-109.
- L12. A. Alejo-Armijo, A. Moro, A. J. Parola, J.C. Lima, F. Pina*, L. Corici, S. Shova, L. Cseh*
Generalization of the anthocyanins kinetics and thermodynamics multistate to 2,6-bis(2-hydroxybenzylidene)cyclohexanones
Dyes Pigments, 2019, 163, 573-588.
- L13. A. A. Armijo, L. Corici, I. Buta, L. Cseh*, A. J. Moro, A. J. Parola, J. C. Lima, F. Pina*
Multistate of chemical species of 2,6-bis(arylidene)cyclohexanones. The role of chalcone and spiro species.
Dyes Pigments, 2020, 174,108013.
- L14. A. J. Moro, A. J. Parola, F. Pina*, A-M. Pana, V. Badea, I. Pausescu, S. Shova, L. Cseh*
2,2'-Spirobis[chromene] derivatives chemistry and their relation with the multistate system of anthocyanins
J. Org. Chem., 2017, 82(10), 5301-5309.

- L15. S.-G. Yang, H.-J. Xie, H. Saba, L. Cseh, G. Ungar
Fluorescence microscopy tracking of dyes, nanoparticles and quantum dots during growth of polymer spherulites
Polymer, 2020, 191, 122246.
- L16. A.-M. Pana, V. Badea, R. Banica, A. Bora, Z. Dudas, L. Cseh*, O. Costisor
Network reaction of 2,6-bis(2-hydroxybenzilidene)cyclohexanone by external stimuli
J. Photochem. Photobiol. A, 2014, 283, 22–28.
- L17. W. S. Fall, M-H. Yen, X. Zeng, L. Cseh, Y. Liu, G. Gehring, G. Ungar
Molecular ejection transition in liquid crystal columns self-assembled from wedge-shaped minidendrons.
Soft Matter, 2019,15, 22-29.
-articolul a fost selectat pentru a fi coperta revistei cu numarul 15 din 2019.
- L18. C. Cretu, L. Cseh*, B. J. Tang, V. Sasca, V. Badea, E. I. Szerb, G. H. Mehl, S. Shova, O. Costisor
Mononuclear Cu(II) complexes of novel salicylidene Schiff bases: synthesis and mesogenic properties.
Liq. Cryst., 2015, 42(8), 1139-1147.
- L19. A. Alejo-Armijo, L. Corici, L. Cseh*, D. Aparaschivei, A. Moro, A. J. Parola, J. Lima, F. Pina*
Achieving complexity at the bottom. 2,6-bis(arylidene)cyclohexanones and anthocyanins: The same general multistate of species.
ACS Omega, 2018, 3(12), 17853-17862.
- L20. L. N. Corici , S. Shova, V. Badea, D. Aparaschivei, O. Costisor, L. Cseh*
Investigations on photochromic properties of 2,6-bis(5-bromo-2-hydroxy-benzylidene) cyclohexanone
Photochem. Photobiol. Sci., 2017, 16, 946-953.
- L21. A. J. Moro, A.-M. Pana, L. Cseh*, O. Costisor, J. Parola, L. Cunha-Silva, R. Puttreddy, K. Rissanen, F. Pina*
Chemistry and photochemistry of 2,6-bis(2-hydroxy-benzilidene) cyclohexanone. An example of a compound following the anthocyanins'' network of chemical reactions
J. Phys. Chem. A, 2014, 283, 22–28.

- L22. A.-M. Pană, I. Păușescu, S. Shova, V. Badea, R. Tudose, M. Sillion, O. Costișor, L. Cseh*
pH dependent structural interconversion of 2-(2-hydroxy-benzylidene)-cyclohexan-1-one:
Crystal structures and spectroscopic investigation
J. Mol. Struct., 2017, 1137, 9-16.
- L23. C. Cretu, R. Tudose, L. Cseh, W. Linert, E. Halevas, A. Hatzidimitriou, O. Costisor, A. Salifoglou
Schiff base coordination flexibility toward binary cobalt and ternary zinc complex assemblies. The case of the hexadentate ligand N,N'-bis[(2-hydroxybenzylidene-amino)-propyl]-piperazine
Polyhedron, 2015, 85, 48-59.
- L24. A. A. Andelescu, C. Cretu, V. Sasca, S. Marinescu, L. Cseh, O. Costisor, E.I. Szerb
New heteroleptic Zn(II) and Cu(II) complexes with quercetine and N^N ligands
Polyhedron, 2018, 147, 120-125.
- L25. I. Bută, L. Cseh, C. Crețu, D. Aparaschivei, C. Maxim, P. Löennecke, E. Hey-Hawkings, N. Stanica, E. Ohler, E. Rentschler, M. Andruh, O. Costișor
Polynuclear copper(II) complexes with hexadentate Schiff base directed by the counter ion. Syntheses, crystal structures and magnetic properties.
Inorg. Chim. Acta, 2018, 475, 133-141.
- L26. C. Cretu, L. Cseh*, R. Tudose, A. Bora, S. Matsia, A. Hatzidimitriou, O. Costisor, A. Salifoglou*
Piperazine core-containing Schiff ligands define chemical reactivity toward divalent metal ions
Inorg. Chim. Acta, 2019, 492, 249-261.
- L27. D. Lysenko, E. Ouskova, S. Ksondzyk, V. Reshetnyak, L. Cseh, G. H. Mehl, Y. Reznikov
Light-induced changes of the refractive indices in a colloid of gold nanoparticles in a nematic liquid crystal
Eur. Phys. J. E, 2012, 35(5), 33-39.
- L28. I. Buta, C. Ianasi, C. Savii, L. Cseh, S. Bakardieva, W. Linert, O. Costisor
Synthesis and characterization of new heterometallic cobalt-zinc oxalates linked by organic amines
Rev. Chim. -Bucharest, 2014, 65(4), 416-420.

- L29. G. M. Simu, D. Coricovac, L. Cseh, C. Soica, F. Borcan, D. Ionescu, M. Andoni, D. Dragos, C. Dehelean
Assessment of skin injuries induced by organic and inorganic phases of the Cosorb process by means of non-invasives techniques
Rev. Chim. - Bucharest, 2016, 67(2), 291-296.
- L30. C. A. Dehelean, D. E. Coricovac, L. Cseh, C. M. Şoica, G. M. Simu
Assessment of the effects of organic solvents. Mixture on SKH1 mice after environmental exposure.
Farmacia, 2017, 65(1), 125-131.
- L31. L. Cseh, C. Csunderlik, I. Pantenburg, G. Mayer, O. Costisor
Synthesis, crystal structure, and spectral properties of a cobalt(II) complex with N-salicylidene-p-toluidine
Z. Anorg. Allg. Chem., 2003, 629 (6), 985-988.
- L32. E. Fagadar-Cosma, L. Cseh, V. Badea, G. Fagadar-Cosma, D. Vlascici
Combinatorial synthesis and characterization of new asymmetric porphyrins as potential photosensitizers in photodynamic therapy
Comb. Chem. High. T. Scr., 2007, 10(6), 466-472,
- L33. L. Cseh, R. Tudose, G. Mayer, I. Pantenburg, W. Linert, O. Costisor
Synthesis and structural characterization of two new Schiff bases incorporating a piperazine skeleton, and their reactions with copper(II) perchlorate
Synth. React. Inorg. M., 2008, 38(4), 382-389.
- L34. C. Cretu, L. Cseh*, G. H. Mehl, O. Costisor
New compounds with potential liquid crystal properties. Copper(II) and nickel(II) complexes of N,N '-bis(4-decyloxysalicyliden-N-n-propyl)-piperazine. Synthesis and characterization
Mol. Cryst. Liq. Cryst., 2008, 481, 26-33.
- L35. E. Ouskova, D. Lysenko, S. Ksondzyk, L. Cseh, G.H. Mehl, V. Reshetnyak, Y. Reznikov
Strong cubic optical nonlinearity of gold nanoparticles suspension in nematic liquid crystal
Mol. Cryst. Liq. Cryst., 2011, 545, 1347-1356.
- L36. L. Corici, D. Caschera, L. Cseh, G. De Luca, E. I. Szerb, P. Calandra
Amphiphiles as novel solvents for photochromics: stability and photophysical properties
Mol. Cryst. Liq. Cryst., 2019, 684(1), 24-36.

- L37. M. Mracec, O. Costisor, L. Cseh, M. Mracec, Z. Simon
Steric and electronic considerations on salicylidene-4-methylaniline as a ligand
Rev. Roum. Chim., 2004, 49 (3-4), 199-204.
- L38. L. Cseh, I. Pantenburg, G. Meyer, O. Costisor
Structures and spectral properties of a copper(II) complex with N-salicylidene-p-toluidine
Rev. Roum. Chim., 2004, 49 (3-4), 287-291.
- L39. L. Cseh*, G. Mehl
Structure-properties relationships in liquid crystal thiols
Rev. Roum. Chim., 2013, 58(11-12), 879-885.
- L40. L. Cseh*, G.H. Mehl
Synthesis and characterization of gold nanoparticles functionalized with calamitic mesogens
Rev. Roum. Chim., 2016, 61(2), 125-130.
- L41. E. I. Szerb, L. Cseh*, A.-M. Pana, R. Banica*, P. Linul, M. Lazarovici, C. Cretu, L. Demetrovici, C. Locovei, G. M. Simu, N. Strambeanu, O. Costisor
Synthesis and characterization of copper nanocubes from waste complex catalyst
Rev. Roum. Chim., 2017, 62(4-5), 433-438.
- L42. M. A. Spirache, C. Cretu, L. Cseh, V. Sasca, V. Badea, R. Tudose, L. N. Deveseleanu-Corici, O. Costisor, E.I. Szerb
Ionic salts of nicotinic acid as multifunctional materials
Rev. Roum. Chim., 2018, 63(5-6), 521-529.
- L43. I. Buta, A. Ardelean, L. Cseh, V. Badea, F. Manea, E. Gal, P. Lonnecke, E. Hey-Hawkins, O. Costisor
New mononuclear cobalt (III) and manganese (III) complex containing a hexadentate Schiff base ligand
Rev. Roum. Chim., 2018, 63(5-6), 515-519.
- L44. L. N. Corici, A. M. Pana, S. Shova, D. Haidu, V. Badea, M. Apostu, I. Buta, E. I. Szerb, O. Costisor, L. Cseh*
Synthesis and investigation of 2-(hydroxybenzylidene)-5-methylcyclohexan-1-one
Rev. Roum. Chim., 2018, 63(7-8), 515-519.
- L45. L. Cseh, G. H. Mehl, S. Clark, S. Archibald
3,4-Diiodo-2,5-dimethylthiophene
Acta Crystallogr. E, 2007, 63, o1393-o1394.

C. Brevete de inventie

- B1.** N. Strimbeanu, L. A. T. Demetrovici, M. Lazarovici, O. Costisor, L. Cseh, E. I. Szerb, L. Andres, L. F. Pascu, S. Masu
Process and plant for the recovery and valorization of all materials resulting from the integral processing of catalysts Cosorb waste
RO 132255A1/ 30.07.2020.
- B2.** R.N. Banica, A.R. Kellenberger, D.H. Ursu, L. Cseh, P. A. Linul, N. Vaszilcsin
Procedeu de sinteză a nanofirelor de argint acoperite cu nanoparticule metalice cu punct de topire scăzut
RO 132480B1/ 30.04.2020

D. Articole publicate in jurnale de specialitate indexate BDI

- L1.** M. Simon, C. Csunderlik, M. Milea, L. Anescu-Cseh
A study on synthesis of di-2-pyridylcarbonate
Chem. Bull. „Politehnica“ Univ. (Timisoara), 2000, 45(59), 181- 187; ISSN 1224-6018.
- L2.** L. Cseh, C. Csunderlik, M. Ghedini, O. Costișor
New complexes with potential mesogenic properties. I. Synthesis, spectral, characterization of the new polidentate ligand with C12 alkyloxy chain.
Ann. West Univ. Timisoara, Ser. Chem., 2003, 12(3), 17-22; ISSN 1224-9513
- L3.** L. Cseh, D. Pucci, A.A. Cseh, C. Csunderlik, M. Ghedini, O. Costișor
New complexes with potential mesogenic properties. I. Synthesis, spectral, characterization of the new polidentate ligand with C12 alkyloxy chain. II. Copper (II) with N, N'-bis(4-dodecyloxysalicylidene N-N-propyl)-piperazine ligand. Synthesis, spectral characterization and crystal structure
Ann. West Univ. Timisoara, Ser. Chem., 2003, 12(3), 1277-1284; ISSN 1224-9513.
- L4.** L. Cseh, C. Csunderlik, O. Costișor
New complexes with potential mesogenic properties. Iii. Synthesis, characterization and mesomorphic ordering of N,N'-bis-[4-(4'-octyloxy-benzoic)-ester-benzyliden-n-propyl]-piperazine
Chem. Bull. „Politehnica“ Univ. (Timisoara), 2005, 50(64), 64-67; 1224-6018

L5. L. Cseh, T. Gilliatt, G. H. Mehl
Synthesis and investigation of novel photochromic room temperature liquid crystals
J. Optoelectron. Adv. Mater. - Symposia, 2009, 1(1), 1 – 5; E-ISSN 1224-0596

L6. C M. Bucovicean, L. Cseh, C. Crețu, O. Costișor
Hydrolytic cleavage of the imino bond in Schiff base ligand N, N'-bis[3(4-dodecyloxybenzylideneamino)-propyl]-piperazine by complexation. The study of the new Cu(II) and Ni(II) complexes containing 1,4-bis(3-aminopropyl) piperazine as ligand.
Chem. Bull. "Politehnica" Univ. (Timisoara), 2010, 55(69), Issue 1, 37-39; ISSN 1224-6018

**E. Prezentari orale la confrunte nationale si internationale
(lista celor 10 conferinte orale reprezentative):**

PO 1. L. Cseh, G.H. Mehl
The synthesis and characterization of nematic gold nanoparticles
The 8th European Conference on Liquid Crystals, Sesto, Italia, 27 feb.-5 mar. 2005

PO 2. L. Cseh, G.H. Mehl
The design, synthesis and the investigation of structure properties relationships of liquid crystal gold nanoparticles
21st International Liquid Crystal Conference, Keystone, CO, USA, 2-7 iul. 2006

PO 3. L. Cseh, X. Zeng, G. Ungar, G. H. Mehl
Mesomorphic properties of liquid crystal gold nanoparticles
21st Annual Conference of the British Liquid Crystal Society, Sheffield, UK, 28-30 mar. 2007

PO 4. L. Cseh, X. Zeng, G. Ungar, G. H. Mehl
The investigation of liquid crystal properties of functionalized gold nanoparticles
22nd International Liquid Crystal Conference, Jeju, Korea, 29 iun. - 04 iul. 2008

PO 5. L. Cseh, X. Zeng, A.G. Fowler, J. E. McDonald, G. Ungar, G. H. Mehl
Synthesis and investigation of mesogen gold nanoparticles
The 5th Conference on Condensed Matter Physics, Timisoara, 16-18 iul. 2008

PO 6. A. M. Pană, L. Cseh, V. Badea, O. Costișor
Synthesis and characterization of 2,6-bis(2-hydroxybenzylidene)cyclohexanone: a pH-dependent photochromic system

The VII-th Edition of the Symposium with International participation, New Trends and Strategies in the Chemistry of Advanced Materials with relevance in biological systems, Technique and Environmental Protection, Timișoara, 5-6 iun. 2014

- PO 7.** L. Cseh, F.G. Erko, J. Berthet, S. Delbaere, G.H. Mehl
Design and investigation of multistate triphotochromic system based on dithienylethene – naphthopyran units
The VIIth Edition of the Symposium with International participation, New Trends and Strategies in the Chemistry of Advanced Materials with relevance in biological systems, Technique and Environmental Protection, Timișoara, 5-6 iun. 2014
- PO 8.** L. Cseh
Multistates/multifunctional molecular level systems based on xanthylium cation
8th International Symposium on Photochromism 2016, Shanghai, China, 4-7nov. 2016
- PO 9.** L. Cseh
Photochromic investigation of xanthylium derivatives
XXXIV-a Conferinta Nationala de Chimie, Caciulata, Valcea, Romania, 04-07 oct. 2016
- PO 10.** L. Cseh, F. F. Fan, X. Zeng, G. Ungar
Supramolecular self-assembly of mini-dendrons
Smart nanostructured materials: from molecular self-assembly to advanced applications
Montelibretti - ROME, Italy, 02-04 Oct. 2019 – *invited talk*

F. Proiecte de cercetare-dezvoltare pe baza de contract/grant

P1 Proiect national finantat de UEFISCDI

Competitia: PN-III-P4-ID-PCE-2020-1958

Pozitia in cadrul proiectului: membra in echipa

Titlul proiectului: Nanorețele Avansate Hibride Auto-organizate cu Poziții Internoelectrozi Controlabile pentru Detecție Ultrasensibilă în Aplicații Medicale (SHIN-PULS)

Suma finantata: 1 198 032,00 lei

Perioada: Ian 2021 - Dec 2023

- P2** **Proiect de infrastructura finanta de Guverul Romaniei si Uniunea Europeana**
Competitie: POC 2014-2020/448/1/1/Mari infrastructuri de CD
Pozitia in cadrul proiectului: manager tehnic
Titlul proiectului: ICT- Centru interdisciplinar de specializare inteligenta in domeniul chimie biologice RO-OPENSREEN
Valoarea proiectului: 42 587 899,61lei
Perioada: Iul 2020 - Dec 2023
- P3** **Proiect bilateral Romania – R.P. China**
Competitia: PN-III-P3-3.1-PM-RO-CN-2018-0139/19/2018
Parteneri: Institutul de Chimie "Coriolan Dragulescu"- Timisoara; Romanian coordonator: Dr. Liliana Cseh; School of Chemistry and Chemical Engineering, Nanjing University – coordonator: Prof. Wenbing Hu
Titlul proiectului: Auto-ansamblarea moleculelor chirale si nechirale in suprastructuri chirale
Suma finantata pentru echipa din Romania: 41820 lei
Perioada: Iul 2018 - Dec 2019
- P4** **Proiect national finantat de UEFISCDI**
Competitia: PN-III-P4-ID-PCE-2016-0720
Pozitia in cadrul proiectului: director proiect
Titlul proiectului: Distrugerea simetriei optice in lichide si mezofaze periodice 3D
Suma finantata: 849 447 lei
Perioada: Iul 2017 - Dec 2019
- P5** **Proiect national finantat de UEFISCDI**
Competitia: PN-II-ID-PCE-2012-4-0398
Pozitia in cadrul proiectului: cercetator senior
Titlul proiectului: Nou concept de fabricare a electrozilor conductori, transparenti si flexibili, pe baza de nanofibre de argint/polianilina pentru celule solare
Valoare totala proiect: 994 400 lei
Period: Sept 2013 – Dec 2015
- P6** **Proiect national finantat de UEFISCDI**
Competitia: PN-II- PT-PCCA-2013-4-0612
Pozitia in cadrul proiectului: coordonator echipa partenera a ICT
Titlul proiectului: Recuperarea avansata a produselor utile din deseurile de catalizatori uzati
Total valoare: 1 437 500 lei (suma echipa ICT = 462 034 lei)
Perioada: Iul 2014 – Dec 2017

- P7 Proiect de cercetare FP7 finantat de Uniune Europeana**
Pozitia in cadrul proiectului: Marie Curie Advanced Visiting Fellow
Titlul proiectului: Functional liquid crystalline dendrimers: Synthesis of new materials, resource for new applications
Valoare proiect: 4 219 110 EURO
Perioada: Oct 2008 – Sept 2012
- P8 Proiect de cercetare EPSRC finanta de Guvernul Britanic**
Pozitia: Post Doctoral Research Assistant
Titlul proiectului: The investigation of the chemistry of multiphotochromic systems for molecular logic gates
Valoare proiect: 169 604 EURO
Perioada: Mai 2006 – Jul 2008
- P9 Proiect de cercetare FP5 finantat de Uniune Europeana**
Pozitia: Doctoral Research Assistant
Titlul proiectului: Design, synthesis and structure-properties relationships of liquid crystals
Perioada stagiului meu de cercetare in cadrul proiectului: Feb 2004 – Ian 2005
- P10 Proiect de cercetare finantat de National Research Council, Italia**
Pozitia: Doctoral Researcher Assistant
Titlul proiectului: Synthesis and characterization of metallic complexes with polynitrogen ligands
Perioada stagiului de cercetare in cadrul proiectului: Sep 2002 – Feb 2003
- P11 Proiect de cercetare national pentru doctoranzi**
Pozitia: proiect individual pentru sustinerea doctoranzilor
Titlul proiectului: Materiale avansate: combinatii complexe ale metalelor 3d continand liganzi de tip Baze Schiff cu proprietati de cristale lichide
Valoare proiect:
Perioada: 2001-2003 (2 ani).
- P12 Grant ANSTI 200-1997 finanta de Guvernul Romaniei**
Pozitia: membra in echipa
Titlul proiectului: Studiul influentei campului ultrasonic asupra unor procese electrochimice
Perioada: 1998-1999.

P13 Proiect national de cercetare

Competitia: Program CEEEX, Modul I tip P-CD-Program tip CERES, Nr. 05-D11-17/04.10.2005

Pozitia in cadrul proiectului: membra in echipa

Titlul proiectului: De la combinatii complexe multimetalice moleculare si supramoleculare catre noi materiale magnetice

Perioada: 2005-2008 (2 ani si 10 luni)

P14 Proiect national de cercetare

Competitia: CEEEX, Contract MATNANTECH Nr. 48/2006

Pozitia: membra in echipa

Titlul proiectului: „Nano-compozite multifunctionale pe baza de arhitecturi supramoleculare cu proprietati optoelectronice, fotochimice, electrochimice si biologice-precursori pentru materiale avansate”

Perioada: 2006-2008 (3 ani)

P15 Proiect national de cercetare

Competitia: Grant MEC – Contract nr. 33470/2002

Pozitia: membra in echipa

Titlul proiectului: Polisulfuri complexe în sistemul V-Cu

Perioada: 2002-2005.

P16 Contract direct INCDEMC Timisoara si SC Nitramonia SA Fagaras

Pozitia: membra in echipa

Titlul proiectului: Recuperarea cuprului din catalizatori epuizati de la reducerea nitrobenzenului

Perioada: 1999.

19.03.2021

Semnatura,

