

Institutul de Chimie Timisoara al Academiei Romane

Preocupari si realizari in domeniul „nano”

**WORKSHOP : „NANOTEHNOLOGIILE
IN ZONA DE VEST A ROMANIEI”,
TIMISOARA 11.03.2011**

Prezentarea ICT

Reprezentantul legal al institutiei

Director:

Dr. Otilia COSTISOR

Telefon 0256-491818

Fax 0256-491824

E-mail ocostisor@acad-icht.tm.edu.ro

Categoria institutiei- I-AR

Adresa institutiei :

Bul Mihai Viteazul nr.24,
300223 Timisoara

Pagina de web

<http://acad-icht.tm.edu.ro>

Laboratoare ICT

Laborator Chimie Anorganica- Compuși anorganici și hibrizi cu relevanță în știința materialelor nanostructurate, precursori pentru materiale avansate,

Coordonator program dr. ing. Cecilia Savii, CS I,
adresa de e-mail: cecilias@acad-icht.tm.edu.ro;
telefon: 0256491818; domenii: rezultate în
domenii:1.0; potential pentru domenii: 1.1.,1.2,
1.3, 1.6,1.8

Laboratoare ICT

- **Laborator Chimie Organica** – Compuși organici și hetero-organici cu N, P, O, S și F. Elaborarea de micro și nanomateriale cu proprietăți speciale,
- Coordonator program, dr. ing. Eugenia Fagadar-Cosma, CS I; adresa de e-mail: efagadar@yahoo.com

telefon: 0256491818;

rezultate in domenii: 1.1., 1.2.(1.2.1. si 1.2.3);

1.3.(1.3.3.); 1.5.(1.5.1. si 1.5.3.); 1.6. (1.6.3.);

potential pentru domenii: 1.1.(1.1.2.); 1.2. (1.2.5.);

1.3 (1.3.1.); 1.5. (1.5.2.); 1.8; 1.9

Laboratoare ICT

Laborator Chimie Computatională-

Proiectarea moleculară asistată de calculator, Coordonator program, Prof. Dr. Zeno Simon (membru corespondent al Academiei Române),

Sef laborator, dr. Liliana Pacureanu,
domeniul 1.0.

Directiile de cercetare din cadrul ICT

1.0. Cercetare fundamentala

- organizatia are in acest moment rezultate notabile

1.2 Bio-nanosisteme

1.2.1 Medicina

- organizatia are potential ca sa actioneze pe aceasta directie in viitor

1.2.3 Medicamente

- organizatia are potential ca sa actioneze pe aceasta directie in viitor

1.3 Industrie chimica

1.3.3 Cataliza

- organizatia are in acest moment rezultate notabile

1.5 Energie

1.5.2 Conversia de energie

- organizatia are in acest moment rezultate notabile

1.5.3 Stocarea si transportul de energie

- organizatia are potential ca sa actioneze pe aceasta directie in viitor

1.6 Industrie de prelucrare

1.6.2 Ceramica

- organizatia are potential ca sa actioneze pe aceasta directie in viitor

- 1.6.3 Polimeri si compozite

- organizatia are potential ca sa actioneze pe aceasta directie in viitor

1.8 Mediu

- organizatia are potential ca sa actioneze pe aceasta directie in viitor

Experienta si rezultate pe plan international

Programe Europene:

1. Development of novel Solid Materials for high power Li polymer BATteries (SOMABAT).
Recyclability of components, Eugenia Fagadar-Cosma
2. COST CM0802 European Phosphorus Sciences Network (PhoSciNet) member in Managerial Committee, 2009-12, Otilia Costisor;
3. Contract RII3-026145/15.12.2008, EC FP6 Research Infrastructure Action - III, „¹H-NMR metabolomic profiling of serum from obese adult female subjects infected by Chlamydomydia pneumoniae”, Dr. Luc Nagels (University of Antwerpen).
4. Proiect IUPAC, 2007-035-1-300/07/08, “Translation in Romanian and dissemination of a monograph for universities and secondary schools on <Global Climate change>”, Director proiect: Aurelia Pascariu;

COPBIL:

1. România-Africa de Sud, , “Polimeri organici ai acidului vinilfosfonic utilizați ca schimbători de ioni în cromatografie”; 94/08/09/10, Lavinia Macarie
2. România- China, “ Prepararea rasilor chelate continand fosfor si aplicatiile lor in protectia mediului si hidrometalurgie”,192/09
3. Romania-Bulgaria, “Evaluation of antitumor and antiviral activities of newly coordination compounds of bile acids, Schiff and Mannich type bases with 3d metal ions; 43/08/09, Otilia Costisor;

Experienta si rezultate pe plan national

-PN II *Parteneriate:*

- Senzori si microsenzori bazati pe porfirine pentru analiza compusilor farmaceutici, a compusilor de importanta clinica si a alimentelor, Contract D1 10055/ 2007-2010; partener, Eugenia Cosma Fagadar;
- Tehnologii inovative de obtinere prin pulverizare termica a microstraturilor compozite de tip cermet anticorozive si antiuzare, Contract 71-050/2007-2010, partener, Cecilia Savii;

Experienta si rezultate pe plan national

CEEX MATNANTECH coordonator :

- Nanomateriale cu porozitate controlată și proprietăți magnetice și optice dirijate, obținute prin metoda sol-gel și sonosinteză, cu potențial aplicativ în protecția mediului, biologie și medicină , 38/05/07, Cecilia Savii;
- Nanocompozite multifunctionale pe baza de arhitecturi supramoleculare cu proprietati optoelectronice, fotochimice, electrochimice si biologice-precursori pentru materiale avansate 48/06/09, Otilia Costisor;
- Hibrizi organici-anorganici cu proprietati speciale pe baza de compusi organofosforici, 82/06-09, Gheorghe Ilia;

Experienta si rezultate pe plan national

CEEX partener

- De la combinatii complexe multimetalice moleculare si supramoleculare catre noi materiale magnetice 05-D11-17/05-08; Otilia Costisor;
- Rețea de servicii științifice de structurare și caracterizare la scara nanometrică, cu aplicații în dezvoltarea de tehnologii convergente - 6111/05-08, Cecilia Savii
- Metode neconvenționale de sinteză a compușilor oxidici-elaborarea bazelor teoretice și aplicații în sinteza unor materiale cu proprietăți dirijate, 51/06-08, Cecilia Savii;
- Centrul virtual pentru tehnologii integrate cu aplicații ale energiei electroultraacustice în ingineria materialelor avansate, contract 265/06-07, Cecilia Savii;

Experienta si rezultate pe plan national

Granturi ale Academiei Romane

- Bazele Mannich – liganzi de preorganizare pentru combinatii complexe cu relevanta biologica si precursori pentru arhitecturi supramoleculare, 47/05/07, Otilia Costisor;
- Proiectarea structurii cristaline și magnetice a fazei rare ϵ - Fe_2O_3 din nanocompozite obținute prin sinteza sol-gel; 53/05/07, Mihaela Popovici;
- Catalizatori hibridi cu specii metalice oxo(peroxo) obținuți prin funcționalizarea silicei mezostructurate utilizați în oxidarea selectivă a hidrocarburilor nesaturate, 46/05/07, V.Pârvulescu (ICFB), A. Popa

Experienta si rezultate pe plan national

Granturi CNCSIS

- Optimizarea proprietăților de emisie ale unor luminofoři wilemitici nanostructurați activați cu Mn (II) derivați din sol-gel prin utilizarea unor surse alternative de energie, câmpul ultrasonor, 71/06/07;

director, Dr. Corina Enache;

- Heteropoliacizi nano-structurați depuși pe site moleculare mezoporoase cu aplicații în cataliză, 78GR /07/09,

director, Dr. Alexandru Popa

Rezultate:

- combinatii complexe, cu rol de caramizi, (building blocks)** BB, pentru sisteme supramoleculare; combinatii complexe ale unor elemente 3d si platinice, cu liganzi de tip baze Mannich si baze Schiff;-sisteme multimetalice ca precursori pentru sisteme oxidice nanostructurate, pe baza conceptului de ,memorie a coordinarii’;
- **matrici mezoporoase de silice si hibride; luminofori,;(bio)nanocompozite (superpara-) magnetice**, (oxizi de fier, ferite)-matrici anorganice sau hibride cu aplicatii potentiale in nanosisteme inteligente de transport dirijat si eliberare modulata a medicamentelor la tinta, substante de contrast; in hipertermie; entraparea speciilor biologice, proteine, medicamente (cisDDP), cu mentinerea activitatii biologice;-compusi luminofori nanostructurati anorganici activati cu metale tranzitionale si lantanide cu aplicatii potentiale ca trasori in nanomedicina; pigmenti luminofori;
- senzori pe baza de porfirine** pentru analiza compusilor farmaceutici, a alimentelor sau nanocompozite multifunctionale cu aplicatii in domeniul celulelor fotovoltaiice, protectie anticoroziva, sau terapia fotodinamica a cancerului;
- hibrizi cu hidroxiapatita si arhitecturi macromoleculare, pentru diagnoza in-vitro a integrarii implanturilor**; materiale hibride prin grefarea complexilor metalici pe suporti functionalizati cu grupari pendante cu (amino)fosfonati si silice cu aplicatiile in oxidari biomimetice;
- metal fosfonati pentru stocarea hidrogenului**; fosfonati grefati pe suporturi anorganice cu aplicatii in optoelectronica sau celule fotovoltaiice; polimeri si nanocompozite cu fosfor, cu aplicatii in purificarea apelor reziduale, in medicina, cataliza, membrane schimbatoare de ioni, celule de combustie sau a textilelor inteligente;
- polimeri si nanocompozite proton/electron conductoare** cu aplicatii in electronica, medicină; estimarea răspunsului senzorial la diverși compuși biomoleculari, (dopamina).

COOPERARI INTERNATIONALE

- **Relatii interacademice**
- -Institutul de Chimie Anorganică din Rez al Academiei Cehe de Științe/**CEHIA**
- -Inst de Compusi Macromoleculari, Academia de Stiinte a Rusiei, **RUSIA**
- -Universitatea din Novi Sad, Academia Sârbă de Științe și Arte / **SERBIA**
- -Univ din Belgrad, Fac. de Chimie Fizica SERBIA -
- -Universitatea Attila Josef, Szeged, Academia Ungară de Științe, **UNGARIA**
- -Centrul Neutronic Budapesta, Inst. de Isotopi și Inst. pentru Fizica Stării Solide și Optică/ Academia Ungară de Științe, **UNGARIA**
- -Institutul de Patologie și Parazitologie Experimantală/, **BULGARIA** Academia Bulgară de Științe
- **-Academia de Științe a Republicii Moldova**

COOPERARI INTERNATIONALE

- **Universitati din strainatate.**
- Universitatea Tehnica Viena, Austria. Prof. Wolfgang Linert
- Academia de Științe a Republicii Moldova, Prof. A. E. Simonov
- Universitatea din Köln, Germania, Prof. Gert Mueller;
- Universitatea din Braunschweig, Germania, Prof. Ioan Neda
- Universitatea din Leipzig; Prof. S. Berger
- Universitatea din Torino, Italia;
- Universitatea din Creta, Grecia;
- Universitatea din Hull, Marea Britanie, Prof. Mehl G.H
- Universitatea Karl-Franzens Universität, Graz, Austria, Prof. Walter M.F. Fabian
- Universitatea Nicolaus Copernicus Bydgoszcz, Polonia, Prof. Grzegorz Bazylak
- Universitatea din Kiev Kiev, Ucraina, Prof. Viacheslav Barsukov
- Universitatea Mexico School of Medicine, Albuquerque, SUA

COOPERARI NATIONALE

Universitatea din Bucuresti

Universitatea de Vest, Timișoara, Romania

Institutul de Chimie Fizica “IG Murgulescu”, Bucuresti

Institutul de Biochimie al Academiei Romane, Bucuresti

INCD Pentru Tehnologii Izotopice si Moleculare, Cluj,
Romania

Institutul de Chimie Macromoleculara Petru Poni Iasi

INCD pentru Electrochimie si Materie Condensata-
Timisoara, Romania

METAV-Cercetare Dezvoltare SA Bucuresti

IMM-uri : SC Sitex 45 SRL Bucuresti

Brevete si cereri

- Cerere brevet de inventie*: Procedeu de realizare a unui senzor potentiometric pe baza de ionofor porfirinic cu selectivitate inalta pentru argint A/00364/2008, Eugenia Fagadar-Cosma, Dana Vlascici, Elena Maria Pica, Otilia Costisor, Viorica Cosma, Liliana Olenic, Otilia Bizerea
- Cerere brevet de inventie*: Senzor potentiometric nitrit-selectiv, A/00190/23.03.2006, Dana Vlascici, Elena Maria Pica, Eugenia Fagadar-Cosma, Otilia Bizerea, Otilia Costisor, Viorica Cosma
- Brevet RO.*: Senzori stocastici pentru determinarea acidului ascorbic si procedeu de realizare a acestora, Nr. 123101, 29.10.2010 Van Staden Raluca -Ioana, Fagadar-Cosma Eugenia-Lenuta

Publicatii ISI 2010

- Funar-Timofei S., Ionescu D., Suzuki T. A tentative quantitative structure-toxicity relationship study of benzodiazepine drugs. *Toxicol. in Vitro*, 24 184-200, **2010. F.I. = 2.473**
- Sasca V., Avram L., Verdes O., Popa A. The n-butyl amine TPD measurement of Brönsted acidity for solid catalysts by simultaneous TG/DTG-DTA. *Appl. Surf. Sci.*, 256, 5533-5538, **2009 (F.I. = 1.616)**
- Popa A., Sasca V., Kiss E. E., Marinkovic-Neducin Radmila, Bokorov M. T., Holclajtner-Antunović Ivanka, Studies in structural characterization of silica-heteropolyacids composites prepared by sol-gel method. *Mat. Chem. Phys.*, 119, 465-470, **2010. (F.I.= 2.015)**
- Păcureanu L., Simon Z. DFT plus PCM calculation for pairing specificity of Watson-Crick type bases in aqueous solutions. *Int. J. Quant. Chem.*, 110, 1295-1305, **2010 (F.I. = 1.317).**

Publicatii ISI 2009

Katritzky A.R., Păcureanu L.M., Slavov S.H., Dobchev D.A., Shah D.O., Karelson M.

QSPR study of the first and second critical micelle concentrations of cationic surfactants.

[*Comput. Chem. Eng.* 33\(1\)](#), 321-332, 2009 (F.I. = 1.847).

Higaev A., Waller A., Amit O., Halip L., Bologa C. G., Sklar L. A. Real-time analysis of conformation-sensitive antibody binding provides new insights into integrin conformational regulation. *J. Biol. Chem.*, 284(21), 14337-14346, 2009. (F.I. = 5.52).

Oprea, T. I., Bologa, C. G., Boyer, S., Curpan, R. F., Glen, R. C., Hopkins, A. L., Lipinski, C. A., Marshall, G. R., Martin, Y. C., Ostopovici-Halip, L., Rishton, G., Ursu, O., Vaz, R. J., Waller, C., Waldmann, H., Sklar, L. A. A crowdsourcing evaluation of the NIH chemical probes. *Nat. Chem. Biol.*, 5(7), 441-447, 2009. (F.I. = 14.612).

Ostopovici Halip, L., Borota, A., Mracec, M., Curpan, R., Gruia, A., Mracec, M., 3D homology model of the alpha2A adrenergic receptor subtype. *Rev. Roum. Chim.*, 54(2), 157-161, 2009. (F.I. = 0.284).

Mracec, M., Gruia, A., Borota, A., Curpan, R., Halip, L., Mracec, M. Conformational analysis of dexmedetomidine. *Rev. Chim.-Bucharest*, 60(5), 488-490, 2009. (F.I. = 0.389).

Katritzky A.R., Păcureanu L.M., Slavov S.H., Dobchev D.A., Karelson M. QSPR study of critical micelle concentrations of nonionic surfactants. *Ind. Eng. Chem. Res.* 47 (23), 9687-9695, 2008. (F.I. = 1.749).

Fagadar-Cosma E., Mirica M., Balcu I., Bucovicean C., Cretu C., Armeanu I., Fagadar-Cosma G. Syntheses, spectroscopic and AFM characterization of some manganese porphyrins and their hybrid silica nanomaterials. [*Molecules*](#), 14(4), 1370-1388, 2009. (FI=1.252).

Mihailescu G., Olenic L., Garabagiu S., Blanita G., Fagadar-Cosma E., Biris A. S. Coupling between plasmonic resonances in nanoparticles and porphyrins molecules. *J. Nanosci. Nanotech.*, 9, 1-4, 2009, (FI=1.929)

Fagadar-Cosma E., Enache C., Vlascici D., Fagadar-Cosma G., Vasile M., Bazylak G.

Novel nanomaterials based on 5,10,15,20-tetrakis(3,4-dimethoxyphenyl)-21H,23H-porphyrin entrapped in silica matrices.

3/31/2011

Publicatii ISI 2009

- Făgădar-Cosma E., Enache C., Armeanu I., Dascalu D., Făgădar-Cosma G., Vasile M., Grozescu I. The Influence of pH Over Topography and Spectroscopic Properties of Silica Hybrid Materials Embedding *Meso-tetratolylporphyrin* **Mat. Res. Bull.**, 44(2), 426–431, **2009. (FI=1.812).**
- Ilia G. Phosphorus containing hydrogels. **Polym. Adv. Techn.**, 20(9), 707–722, **2009. (F.I.=2.017).**
- Vlase T., Vlase G., Doca N., Ilia G. Coupled thermogravimetric-IR techniques and kinetic analysis by non-isothermal decomposition of Cd and Co vinyl-phosphonates, **J. Therm. Anal. Calorim.**, 97(2), 467-472, **2009. (F.I.=1.630)**
- Vlase G., Vlase T., Doca N., Ilia G., Estimation of flame retardancy effect by thermal analysis using kinetic parameters obtained under non-isothermal conditions in air. **Chin. J. Chem.**, 27(10), 1919-1924, **2009. (F.I.= 0.945).**
- Ioitescu A., Vlase G., Vlase T., Ilia G., Doca N. Synthesis and characterization of hydroxyapatite obtained from different organic precursors by sol-gel method. **J. Therm. Anal. Calorim.**, 96(3), 937–942, **2009. (F.I.=1.630).**
- Micle A., Miklasova N., Varga R., Pascariu A., Pleșu N., Petric M., Ilia G. A versatile synthesis of a new bisiminophosphorane. **Tetrahedron Lett.**, [50\(40\)](#), 5622-5624, **2009. F.I.=2.538**
- Kristen N., Simulescu V., Vüllings A., Laschewsky A., Miller R., von Klitzing R. No charge reversal at foam film surfaces after addition of oppositely charged polyelectrolytes. **J. Phy. Chem. B**, 113 (23), 7986–7990, **2009. (F.I.=4.189).**
- Ilia G., Parvulescu V., Popa A., Iliescu S. Organic-inorganic hybrids containing phosphonate groups obtained by sol-gel process. **J. Optoe. Adv. Mat.**, 10(12), 3398-3402, 2008. **(F.I.=0.577)**
- Simulescu V., Manev E., Ilia G. Drainage and stability of foam films from aqueous solutions of a single nonionic surfactant C12E6. **Optoe. Adv. Mat. – Rapid Communications**, 3(2), 155-159, **2009. (F.I.=0.224).**
- Sallo A., Crasmareanu C., Lascu A. Contributions to the study of dinitrotoluene adducts with sulfite ion by visible spectrophotometry. **Rev. Chim.**, 60 (5), 491-493, **2009. (F. I = 0.389).**

Publicatii ISI 2009

- Plesu N., Grozav I., Iliescu S., Ilia G. Acrylic blends based on polyaniline. Factorial design, [*Synth. Metals*, 159\(5-6\)](#), 501-507, 2009. (F.I.=1,962).
- Niculescu, M., Birzescu, M., Dumitru, R., Şişu, E., Budrugeac, P. Co(II)-Ni(II) heteropolynuclear coordination compound obtained through the reaction of 1,2-propanediol with metallic nitrates as precursor for mixed oxide of spinel type NiCo_2O_4 [*Thermochim. Acta*](#), 493, 1-5, 2009. (F.I. =1.692).
- Doca N., Vlase G., Vlase T., Perta M., Ilia G., Plesu N. TG, EGA and kinetic study by non-isothermal decomposition of a polyaniline with different dispersion degree. *J. Therm. Anal. Calorim*, 97, 479-484, 2009. (F.I.=1.63).
- Vlase G., Vlase T., Doca N., Perta M., Ilia G., Plesu N. Thermal behavior of a sol-gel system containing aniline and organic phosphonates. *J Therm Anal Calorim*, 97, 473-4478, 2009. (F.I. =1.63).
- Şerb A., Şchiopu C., Flangea C., Vukelic Z., Şişu E., Zăgrean L., Zamfir A.D. [High-throughput analysis of gangliosides in defined regions of fetal brain by fully automated chip-based nanoelectrospray ionization multi-stage mass spectrometry](#). *European J. Mass Spectrometry*, 15(4), 541-553, 2009. (F.I. =1.167).
- Plesu N., Ilia G., Sfârloagă P., Iliescu S. Organic-inorganic hybrids obtained by in situ polymerization of aniline in silica/phosphonate matrix. [*J. Mat. Sci.*](#), 44 (23), 6437-6446, 2009. (F.I. =1,185).
- Şişu I., Udrescu V., Flangea C., Dincă N., Tudor S., Rusnac L., Zamfir A.D., Şişu E. Synthesis and structural characterization of maltodextrins functionalized with hexamethylene-diamine. *Cent. Eur. J. Chem.*, 7(1), 66-73, 2009 .(F.I. =0.741).
- Flangea C., Şerb A.F., Şchiopu C., Tudor S., Şişu E., Seidler D.G., Zamfir A.D. Discrimination of GalNAc (4S/6S) sulfation sites in chondroitin sulfate disaccharides by chip-based nanoelectrospray multistage mass spectrometry. *Cent. Eur. J. Chem.*, 7(4), 752-759 2009. (F.I. =0.741).
- Muntean, S., Simu, G., Kurunczi, L., Szabaday, Z.
Investigation of the aggregation of three disazo direct dyes by UV-Vis spectroscopy and mathematical analysis, *Rev. Chim. Bucureşti*, 60(2), 152-156, 2009. (F.I. = 0.389).

Publicatii ISI 2009

- A., Crăsmăreanu C., Lascu A. Contributions to the study of dinitrotoluene adducts with sulfite ion by visible spectrometry. *Rev. Chim. (Bucharest)* 60 (5), 491-493, 2009. (F.I. = 0.389).
- Șișu I., Bercean V., Badea V., Căproiu M.T., Șișu E. Thioribofuranoside of mercaptotriazole. *Rev. Chim. (Bucharest)* 60 (9), 880-882, 2009. (F.I. = 0.389).
- Simu G. M., Dragomirescu M., Andoni M., Agrigoroaie G. Synthesis, physico-chemical characterization and *in vivo* imagistic skin evaluation of a new disazo dye containing eco-friendly precursors. *Rev. Chim. București*, 60(12), 2009. (F.I. = 0.389).
- Chicu S. A., Simu G. M. *Hydractinia Echinata* test system. I. Toxicity determination of some benzenic, biphenylic and naphthalenic phenols. Comparative SAR-QSAR study. *Rev. Roum. Chim.*, 54(8), 659-669, 2009. (F.I. = 0.182).
- Penescu M., Șișu I., Purcarea V.L., Șișu E. The applications of mass spectrometry for identifying modern biochemical markers of nephropathies. *Farmacologia*, 57(6), 667-680, 2009. (F.I. = 0.056).
- Iliescu S., Pascariu A., Plesu N., Popa A., Macarie L., Ilia G. Unconventional method used in synthesis of polyphosphoesters. *Polym. Bull.*, 63, 485-495, 2009. (F. I. = 1.127).
- Taubert L., Rădulescu H., Kiss A. S., Princz E., Stefanovits-Bányai É. Soil amendment and plant fertilization by residual calcium and magnesium. *Rev. Chim.*, 60(1) 5-8, 2009. (F.I. = 0.261)
- Popa A., Plesu Nicoleta, Sasca V., Catalytic conversion of ethanol on polyaniline protonated with heteropolyacids, *J. Optoelect. Adv. Mat.*, 11 (4), 502-508, 2009. (F.I. = 0.827) Popa A., Holclajtner-Antunović Ivanka, Vasiljević-Radović Dana, Sasca V., AFM and SEM-EDS examination of highly dispersed heteropolyacids supported on MCM 41 and SBA 15 mesoporous materials. *J. Optoelect. Adv. Mat.*, 11 (8), 1185-1190, 2009. (F.I. = 0.827). Zamfir A.D., Flangea C., Șișu E., Șerb A.F., Dincă N., Bruckner P., Seidler D.G. Analysis of novel over- and under-sulfated glycosaminoglycan sequences by enzyme cleavage and multiple stage MS. *Proteomics*, 9(13), 3435-3444, 2009. (F.I. = 4.586).
- Șchiopu C., Flangea C., Capitan F., Șerb A., Vukelić Z., Kalanj-Bognar S., Șișu E., Przybylski M., Zamfir A.D. Determination of ganglioside composition and structure in human brain hemangioma by chip-based nanoelectrospray ionization tandem mass spectrometry. *Anal. & Bioanal. Chemistry*, 395(8) 2465-77, 2009. (F.I. = 3.328).
- Flangea C., Șișu E., Șchiopu C., Șerb A., Przybylski M., Seidler D.G., Zamfir A.D. Determination of sulfation pattern in brain glycosaminoglycans by chip-based electrospray ionization ion trap mass spectrometry. *Anal. & Bioanal. Chemistry*, 395(8) 2489-98, 2009. (F.I. = 3.328).
- Șerb A., Șchiopu C., Flangea C., Șișu E., Zamfir A.D. Top-down glycolipidomics: fragmentation analysis of ganglioside oligosaccharide core and ceramide moiety by chip-nanoelectrospray collision-induced dissociation MS2-MS6. *J. Mass Spectrometry*, 44 (10), 1434-1442 2009 (F.I. = 2.940).
- Suzuki T., Funar-Timofei S. Toxicity modelling of benzodiazepine drugs by partial least square analysis. *J. Pharm. Pharmacol.*, 61, Supplement 1, p. A65, 2009 (F.I. = 1.847).

Publicatii ISI 2008

- Zeng X., Cseh L., Mehl G. H., Ungar G., Testing the triple network structure of the cubic Im3m (I) phase by isomorphous replacement and model refinement. *J. Mater. Chem.*, 18, 2953-2961, **2008. (F. I. = 4.339)**
- [Perdivară I.](#), [Șișu E.](#), Șișu I., [Dincă N.](#), [Tomer K. B.](#), [Przybylski M.](#), Zamfir [A. D.](#)
Enhanced electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry of long-chain polysaccharides. *Rapid Commun Mass Spectrom.* 22, 773-782, **2008. (F. I. = 3.4)**
- Funar-Timofei S., Iliescu S., QSPR Study of Phosphoric Polyester Glass Transition Temperature by PLS. *Match-Commun. Math. Co.*, 60 (3), 997-1005, **2008 (F. I. = 2.580)**
- Popa A., Davidescu C.M., Negrea P., Ilia G., Katsaros A., Demadis K. Adsorption of Divalent Metal Ions (Ca^{2+} , Cu^{2+} and Ni^{2+}) From Aqueous Solutions Using Phosphonate Ester/Phosphonic Acid Grafted on Styrene-Divinylbenzene Copolymers. *Industrial & Engineering Chemistry Research*, 47(6), 2010 -2017, **2008 (F. I. = 1.749)**
- Vlascici D., Făgădar-Cosma E., Pica E. M., Cosma V., Bizerea O., Mihailescu G., Olenic L. Free Base Porphyrins as Ionophores for Heavy Metal Sensors *Sensors*, 8, 4995-5004, **2008**, DOI: 10.3390/s8084995, ISSN 1424-8220, www.mdpi.org/sensors-OPEN (F. I. =1.573)
- Vlad M., Labadi I., Sayti L., Tudose R., Linert W., Costișor O. Synthesis, characterization and thermal properties of $[\text{Cu}(\text{VO})_2(4,4'\text{-bpy})_2 \cdot 2\text{H}_2\text{O}]$ a 2D polymer. *J. Therm. Anal. Calorim.*, 91(3), 925-928, **2008. (F. I. = 1.483)**
- Doca N., Vlase G., Vlase T., Ilia G. Thermal behavior of Cd and Co phenyl-vinyl-phosphonates under non-isothermal condition.. *J. Therm. Anal. Calorim.*, 94 (2), 441-445, **2008 (F. I. = 1.483).**
- Sasca V., Moșoarca E. M., Avram L., Tudose R., Costișor O. Thermal behavior of Mannich base N,N'-tetra(4-antipyrylmethyl)-1,2 diaminoethane (TAMEN) and its binuclear complexes. I. Thermal behavior of $\text{Ni}_2(\text{TAMEN})\text{Cl}_4$. *J. Therm. Anal. Calorim.*, 94(2), 355-360, **2008 (F. I. = 1.483)**
- Moșoarca E. M., Sasca V., Avram L., Tudose R., Costișor O. Thermal behavior of Mannich base N,N'-tetra(4-antipyrylmethyl)-1,2 diaminoethane (TAMEN) and its binuclear complexes. II. The binuclear $\text{Cu}(\text{II})$ and $\text{Co}(\text{II})$ complexes. *J. Therm. Anal. Calorim.*, 94(2), 361-365, **2008.**
- 3/31/2011 **(F. I. = 1.483)**

2008

- Iliescu S., Grozav I., Plesu N., Pascariu A., Ilia G. Design of experiments applied to the study of the reaction between phenylphosphonic dichloride with bisphenol by inverse phase transfer catalysis method. *Polym. Eng. Sci.*, 48(7), 1304-1311, 2008. (F. I. = 1.272)
- Pascariu A., Mracec M., Berger S. Dynamic NMR study of the oxaphosphetane complexation with lithium during the Wittig reaction *Int. J. Quant. Chem*, 108, 1052-1058, 2008. (F. I. = 1.182)
- Ilia G., Iliescu S., Macarie L., Popa A. Synthesis of tervalent phosphorus esters in biphasic system using potassium phosphate as unique solid base. *Heteroatom Chemistry*, 19(4), 360-364, 2008. (F. I. = 0.984)
- Popa A., Parvulescu V., Tablet C., Ilia G., Iliescu S., Pascariu A. Heterogenous catalysts obtained by incorporation of polymer-supported phosphonates into silica used in oxidation reactions. *Polymer Bull.*, 60(1), 149-158, 2008 (F. I. = 0.969).
- Samoila O.C., Carter A. M., Futers S. T., Otiman G., Anghel A., Tamas L., Seclaman E. Polymorphic variants of extracellular superoxide dismutase gene in a romanian population with atheroma. *Biochem. Genet.*, 46 (9-10), 634-43, 2008. (F. I. = 0.876)
- Popa A., Sasca V., Kiš E. E., Marinkovic-Neducin R., Halasz J. Highly dispersed heteropolyacids supported on modified MCM 41 mesoporous materials. *J. Optoelect. Adv. Mat.*, 10(6), 1401-1407, 2008. (F. I. = 0.827)
- Mihailescu G., Olenic L., Pruneanu S., Făgădar-Cosma E., Ardelean P., Indrea E., Dreve S., Silipas T. D. Study of Porphyrin Chromophores as Sensibilisators for Photovoltaic Solar Cell. *J. Optoelect. Adv. Mat.*, 10(9), 2252-2255, 2008. (F. I. = 0.827)
- Vlascici D., Pica E. M., Făgădar-Cosma E., Cosma V., Bizerea O. Thiocyanate and Fluoride Electrochemical Sensors Based on Nanostructured Metalloporphyrin Systems. *J. Optoelect. Adv. Mat.*, 10(9), 2303-2306, 2008 . (F. I. = 0.827).
- Funar-Timofei S., Ilia G. Simulation of Grafting Reaction of Styryl Phosphonic Acid on Titanium Oxide. *J. Optoelectron. Adv. M.*, 10(10), 2649-2652, 2008. (F. I. = 0.827).
- Făgădar-Cosma E., Enache C., Dascalu D., Făgădar-Cosma G., Gavrila R. FT-IR, Fluorescence and Electronic Spectra for Monitoring the Aggregation Process of Tetra-Pyridylporphyrine Entrapped in Silica Matrices. *Optoelect. Adv. Mat.-Rapid Communications*, 2(7), 437-441, 2008. (F. I. = 0.827).

Publicatii ISI 2008

- Cseh L., Tudose R., Pantenburg I., Meyer G., Linert W., Costișor O. *Synth. React. Inorg. Metal Chem.*, 38(4), 382-389, 2008. (F. I. = 0.784).
- Taubert L., Rădulescu H., Kiss A. S., Kastori R., Princz E., Stefanovits-Bányai É. Practical application in agriculture of the magnesium products industry waste. *Chem. Listy*, 102(15), 482 – 486, 2008. (F. I. = 0.683).
- Crețu C., Cseh. L., Mehl G. H., Costișor O. New Compounds with Potential Liquid Crystal Properties. Copper(II) and Nickel(II) Complexes of N,N0-bis(4-decyloxysalicyliden-N-n-propyl)-Piperazine. Synthesis and Characterization. *Molec. Cryst. Liq. Cryst.*, 481(1), 26-33, 2008. (F. I. = 0.554).
- Popa A., Parvulescu V., Iliescu S., Plesu N., Ilia G., Macarie L., Pascariu A. Synthesis and characterisations of aminophosphonate styrene–divinylbenzene–silica hybrid materials. *Plastics, Rubber and Composites*, 37(5/6), 193-197, 2008. (F. I. = 0.431)
- Macarie L., Ilia G., Iliescu S., Popa A., Plesu N., Pascariu A. Photopolymerisable formulations for enhanced properties of pigmented films. *Plastics, Rubber and Composites*, 37(5/6), 258-262, 2008. (F. I. = 0.431).
- Pleșu N., Iliescu S., Ilia G., Popa A. Semiconductive polyaniline melamine–formaldehyde blend electronic barrier to corrosion. *Plastics, Rubber and Composites*, 37 (5/6), 288-292, 2008. (F. I. = 0.431).
- Lancok A., Bezdzicka P., Klementova M., Zaveta K., Savii C. Fe₂O₃/SiO₂ Hybrid Nanocomposites Studied Mainly by Moesbauer spectroscopy. *Acta Phys. Polon. A*, 113(1), 577-581, 2008 (F. I. = 0.416).
- Suzuki T., Funar-Timofei S., Ionescu D. A quantitative structure-toxicity relationship study of benzodiazepine drugs. *J. Pharm. Pharmacology*, 60(9), Supplement 1, p. A-51 (2008). (F. I. = 1.718)
- Moșoarca E. M., Tudose R., Sayti L., Linert W., Costișor O. Recent developments in the coordination chemistry of antipyrine and antipyrine derivatives. *Rev. Inorg. Chem.* 28(1):1-34, 2008 (F. I. = 0.360).
- Chicu S. A., Grozav M., Kurunczi L., Crișan M. SAR for Amine Salts of Carboxylic Acids to *Hydractinia echinata*. *Rev. Chim. (Bucharest)*, 59(5), 582-587, 2008. (F. I. = 0.287).
- Muntean S.G., Simu G.M., Kurunczi L., Szabadai Z. Experimental and mathematical study of the aggregation of a trisazo direct dye. *Rev. Chim. (Bucharest)*, 59(8), 894-897, 2008. (F. I. = 0.287).

Publicatii ISI 2008

- Crețu C., Bucovicean C., Armeanu I., Lacramă A. M., Făgădar-Cosma E. Synthesis and Spectroscopic Characterization of *Meso*-tetra (3-hydroxyphenyl) porphyrin. **Rev. Chim. (Bucharest)**, 59(9), 979-981, **2008. (F. I. = 0.287).**
- Grad M. E., Rădițoiu V., Popa S., Jurcău D., Lupea A. X. Culoarea și comportarea tinctorială a unor cromogeni derivați ai acidului 4,4'-diaminostilben-2,2'-disulfonic. **Rev. Chim. (Bucharest)**, 59(12), 1335-1360, **2008. (F. I. = 0.287).**
- Grad M. E., Simu G., Lupea A. X., Tomas S., Pascariu A. Synthesis and colour assessment of some new stilbene azo dyes. **Rev. Roum. Chim.**, 53(2), 107-111, **2008. (F. I. = 0.262).**
- Făgădar-Cosma E., Enache C., Vlascici D., Făgădar-Cosma G. Nanomaterials Based on 3,4-Dimethoxy-phenyl Substituted Porphyrin Entrapped in Silica Matrix, **Journal of Porphyrins and phtalocianines**, 12(3-6), 505, **2008** ISSN 1088-4246, www.u-bourgogne.fr/jpp/ (F. I. = 1.115).
- Vlascici D., Pica E. M., Cosma V., Făgădar-Cosma E. Potentiometric Characterization of Lead-Selective Electrodes Based on a Phenyl Disubstituted Porphyrin. **Journal of Porphyrins and phtalocianines**, 12(3-6), 772, **2008**, ISSN 1088-4246, www.u-bourgogne.fr/jpp/ (F. I. = 1.15).
- Popa A., Parvulescu V., Plesu N., Iliescu S., Davidescu C.M. Synthesis of aminophosphonates Grafted On Styrene Divinylbenzene Copolymer **Materiale Plastice**, 45(4), 310-313, **2008 (F. I = 0.873).**
- Bazylak G., Ludwig C., Fagadar-Cosma E., Gunther U. L. Metabolomic profiling of serum from obese adult females infected by *Chlamydomydia pneumoniae*, **FEBS Journal**, 276, Suppl. 1, 98, 1-10, **2009**, ISSN: 1742-464X, ONLINE-1432-1033, Blackwell Publishing. (FI=3.139/2008).

Publicatii ISI 2007

- Mracec Ma., Borota A., Rad R., Ostopovici L., Mracec M., QSAR Analysis of a Series of Non-Imidazolic Derivatives Acting on the Histamine H3 Receptor. *Rev. Roum. Chim.*, 52, 829-835, 2007. (F. I. = 0.262)
- Ostopovici L., Rad R., Borota A., Mracec Ma., Mracec M. Conformational Analysis with AMBER and AM1 Methods of a Partial Agonist, (R)-2-[[4-Phenyl-Butylamino)-Methyl]-Chroman-7-Ol Active on the Dopaminic D2 Receptor. *Rev. Roum. Chim.*, 52, 837-844, 2007 F. I. = 0.262
- Rad R., Mracec Ma., Ostopovici L., Borota A., Mracec M. QSAR Study For a Series of Imidazo[1,5-A]-Quinoxaline and Pyrazolo[1,5-C] Quinazoline Derivatives Acting on GABA_a/ Benzodiazepine Receptor. *Rev. Roum. Chim.*, 52, 845-851, 2007. (F. I. = 0.262)
- Rad R., Mracec Ma., Mracec M., Oprea T. The Privileged Structures Hypothesis for G Protein -Coupled Receptors – Some Preliminary Results, *Rev. Roum. Chim.*, 52, 853-858, 2007. (F. I. = 0.262)
- Schulz M., Mracec Ma., Şişu E., Mracec M. AM1 Conformational Analysis of the (3S,5R,6R)-6-Acetylamidopenicillanic Acid. *Rev. Roum. Chim.*, 52, 859-867, 2007. (F. I. = 0.262).
- Neanu C., Lascu A., Csunderlik C. Synthesis of Benzylidene Acetals of N-Acetyl-N-Methyl Glucamine. *Rev. Roum. Chim.*, 52(8-9), 869-874, 2007. (F. I. = 0.262)
- Muntean S., Kurunczi L., Careja V., Simon Z. Dissociation energies in water solution for saline bonds implied in interactions mediated by peptidoglycans. Ab initio-PCM computations. *Rev. Roum. Chim.*, 52(12), 1111-1114, 2007. (F. I. = 0.262).
- Careja V., Muntean S., Mracec M., Sayti L., Simon Z.: Molecular modeling of some calcium and magnesium ionic bridges, *Int. J. Quant. Chem.*, 107(8), 1714-1718, 2007 (F. I. = 1.182)
- Cseh L., Mehl G. H.: Structure-property relationships in nematic gold nanoparticles, *J. Mater. Chem.*, 17(4), 311-315, 2007 (F. I. = 0.965)
- Cseh L., Mehl G. H., Clark S., Archibald S. J.: 3,4-diiodo-2,5-dimethylthiophene, *Acta Crystall., Sc. E*, E63, 1393-1394, 2007 (F. I. = 0.575)
- Jouad E.M., Bouet G.M., Khan M.A., Dogaru D., Mateescu C.: Furannic Thiosemicarbazone Complexes of Co(II), Ni(II), and Cu(II) in Ethanol Solutions and of Co(II) in the Solid State, *Phosphorus, Sulfur & Silicon*, 182(11), 2705-2718, 2007 (F. I. = 0.426)
- Rădulescu H., Taubert L., Kiss A. S., Princz E., Stefanovits-Bányai É.: Effect of an industrial chemical waste on the cations uptake by green oat, *J. Serb. Chem. Soc.*, 72(6), 629-633, 2007 (F. I. = 0.423)
- Fagadar-Cosma E., Enache C., Fagadar-Cosma G., Savii C., Gavrila R.: Design of hybrid nanomaterials based on silica-porphyrin. AFM characterization, *J. Optoelect. Adv. Mat.*, 9(6), 1878-1882, 2007 (F. I. = 1.106)
- Popa A., Sasca V., Kiš E.E., Marinković-Nedučin R., Halasz J.: Molecular Sieves SBA-15 type doped with heteropolyacids: Textural and structural properties, *J. Optoelect. Adv. Mat.*, 9(11), 3645-3650, 2007 (F. I. = 1.106)

Publicatii ISI 2007

- Popa A., Avram E., Cozan V., Pascariu A., Parvulescu V. Hibridi aminofosfonat polimer-silice obtinuti via sinteza „one-pot” a polisulfonei functionalizate cu aldehida. ***Materiale Plastice***, 44(4), 310-315, **2007**. (F. I. = 0.404)
- Raptopoulou G. C., Terzis C. P., Tangoulis A. V., Mateescu C., Salifoglou A.: A Chromium(III)-Citrate Complex from Aqueous Solution. pH-Specific Synthesis, Spectroscopic, Structural and Magnetic Studies in Relevance to Aqueous Cr(III)-Citrate Speciation, ***Inorg. Chem.***, 46(8), 2998 – 3009, **2007** (F. I. = 3.911)
- Făgădar-Cosma E., Costisor O., Vlascici D., Făgădar-Cosma G.: Alternative synthesis of a new asymmetric hydroxyporphyrin sensitizer. Study of absorption and fluorescence spectra. ***J. Biol. Inorg. Chem.***, 12 (Suppl. 1), 136, **2007** (F. I. = 3.300)
- Făgădar-Cosma G., Vlascici D., Făgădar-Cosma E.: 5,10,15,20-Tetrakis(4-pyridyl)-21,23H-porphyrin-Zn(II)- iodide-selective ionophore in formulation of new polymeric membrane electrodes, ***J. Biol. Inorg. Chem.***, 12 (Suppl. 1), 218, **2007** (F. I. = 3.300)
- Făgădar-Cosma E., Cseh L., Badea V., Făgădar-Cosma G., Vlascici D.: Combinatorial Synthesis and Characterization of New Asymmetric Porphyrins as Potential Photosensitizers in Photodynamic Therapy, ***Comb. Chem. High T SCR***, 10(6), 466-472, **2007** (F. I. = 2.550)
- Zamfir A.D., Vukelić Ž., Schneider A., Şişu E., Dincă N., Ingendoh A.: A novel approach for ganglioside sequencing by electrospray high capacity ion trap multiple stage mass spectrometry, ***J. Biomol. Tech.***, 18(4), 188-193, **2007** (F.I.= 2.247)
- Oprea T.I., Allu T.K., Fara D.C., Rad R.F., Ostopovici L., Bologa C.G.: Lead-like, drug-like or "Pub-like": how different are they?, ***J. Comput. Aided. Mol. Des.***, 21, 113-119, **2007** (F. I. = 2.089)
- Stefanescu M., Stoia M., Stefanescu O., Popa A., Simon M., Ionescu C.: The interaction between TEOS and some polyols. Thermal analysis and FT-IR, ***J. Thermal. Anal. Cal.***, 88, 19-26, **2007** (F. I. = 1.438)
- Vlase G., Vlase T., Tudose R., Costişor O., Doca N.: Kinetic o decomposition of some complexes under non-isothermal conditions, ***J. Therm. Anal. Cal.***, 88(3), 637-640, **2007** (F. I. = 1.438)

Publicatii ISI 2007

- Şeclăman E., Kurunczi L., Simon Z.: «False» Thymine – 1H-Enol Guanine Base Pair. Low misinsertion Rate by DNA Polymerase Explained by Computational Chemistry Consideration, ***Biochemistry (Moscow)***, 72(3), 328 – 331, 2007 (F. I. = 1.368)
- Macarie L., Ilia G.: Influence of Pigment Properties on UV-curing Efficiency, ***J. Appl. Polym. Sci.***, 104(1), 247-252, 2007 (F. I. = 1.306)
- Iliescu S., Ilia G., Pascariu A., Popa A., Pleşu N.: Organic solvent-free synthesis of phosphorus containing polymers, ***Pure Appl. Chem.***, 79(11), 1879-1884, 2007 (F. I. = 1.920)
- Kurunczi L., Funar-Timofei S., Bora A., Şeclăman E.: Application of the MTD-PLS method to heterocyclic dye-cellulose interactions, ***Int. J. Quant. Chem.***, 107(11), 2057 – 2065, 2007 (F. I. = 1.182)
- Bora A., Şeclăman E., Kurunczi L., Funar-Timofei S.: A Preliminary MTD-PLS Study for Androgen Receptor Binding of Steroid Compounds, ***Int. J. Quant. Chem.***, 107(8), 1707 – 1713, 2007 (F. I. = 1.182)
- Mracec Ma., Pascariu A., Berger S., Mracec M.: New possible ionic structures in Wittig reaction: Analysis of stability and rotation barriers by semiempirical PM3 method, ***Int. J. Quant. Chem.***, 107(8), 1782-1793, 2007 (F. I. = 1.182)
- Ostopovici L., Mracec Ma., Borota A., Mracec M.: Exploring the binding site of the human muscarinic M3 receptor: Homology modeling and docking study, ***Int. J. Quant. Chem.***, 107(8), 1794-1802, 2007 (F. I. = 1.182)
- Borota A., Mracec Ma., Rad R., Ostopovici L., Mracec M.: Conformational analysis for some nonclassical antagonists of histamine H3 receptor, ***Int. J. Quant. Chem.***, 107(8), 1803-1813, 2007 (F. I. = 1.182)

Publicatii ISI 2007

- Davidescu C.M., Popa A.: Funcționalizarea copolimerilor S-DVB clorometilați cu 2-amino-piridină, ***Materiale Plastice***, 44(3), 213-216, 2007 (F. I. = 0.319)
- Vlascici D., Pică E. M., Fagadar-Cosma E., Bizerea O., Cosma V.: Cercetari privind elaborarea si selectivitatea electrodului nitrit –selective, ***Rev. Chim. (Bucharest)***, 58 (2), 186-190, 2007 (F. I. = 0.287)
- Grad M., Simu G.M., Muntean S.G., Lupea A.X.: Sinteza, caracterizarea si studiul de culoare in spatiul color CIELAB ale colorantilor disazoici simetrici derivati ai acidului 4,4'- diaminostilben-2,2'-disulfonic, ***Rev. Chim. (București)***, 58(2), 214-217, 2007 (F. I. = 0.287)
- Ostopovici L., Mracec Ma., Borota A., Mracec M.: Exploring the binding site of the human muscarinic M3 receptor: Homology modeling and docking study, ***Rev. Chim. (Bucharest)***, 58, 273-275, 2007 (F. I. = 0.287)
- Fagadar-Cosma E., Enache C., Tudose R., Armeanu I., Mosoarca E., Vlascici D., Costisor O.: UV-vis and fluorescence spectra of meso-tetraphenyl-porphyrin and meso-tetrakis-(4-methoxyphenyl) porphyrin in THF and THF-water systems. The influence of pH, ***Rev. Chim. (București)***, 58(5), 451-455, 2007 (F. I. = 0.287)
- Popa A., Puscasu B., Sasca V.: Effect of the support on texture and structure of some Keggin- type heteropolyacids, ***Rev. Chim. (București)***, 58(8), 755-759, 2007 (F. I. = 0.287)
- Grad M., Rădițoiu V., Wagner L., Rădițoiu A., Lupea A. -X.: Sinteza și caracterizarea unor cromogeni derivați ai acidului 4,4'-diaminostilben-2,2'-disulfonic, ***Rev. Chim. (București)***, 58(8), 786-790, 2007 (F. I. = 0.287)
- Niculescu M., Dumitru R., Magda A., Bandur G., Șişu E.: Noi metode de obținere a unor acizi carboxilici prin reacții de oxidare a polioliilor cu azotați de metal (II).I. Reacții de oxidare a 1,2-propandiolului cu azotați de metal(II), ***Rev. Chim. (București)***, 58(10), p.932-936, 2007 (F. I. = 0.287)

Publicatii ISI 2007

- Mracec Ma., Rad R., Ostopovici L., Borota A., Mracec M.: Conformational analysis of a high potent quinoxaline urea derivative active on the central benzodiazepine receptor, ***Rev. Roum. Chim.***, 52, 195-200, 2007 (F. I. = 0.208)
- Mracec Ma., Borota A., Rad R., Ostopovici L., Mracec M.: Conformational analysis for a series of imidazole ligands acting as antagonists on the histamine H3 receptor, ***Rev. Roum. Chim***, 52, 201-206 (2007) (F. I. = 0.208)
- Sayti L., Careja V., Muntean S., Tudose R., Costisor O., Simon Z.: Quantum chemistry computations of stability constants of cobalthexamine ion in aqueous solutions. An Attempt, ***Rev. Roum. Chim.***, 52, 299-300 (2007) (F. I. = 0.208)
- Macarie L., Bandur G., Ilia G.: Comparative study of the photoinitiating reactivity of the acylphosphonates and acylphosphine oxide, ***Rev. Roum. Chim***, 52(4), 437-440, 2007 (F. I. = 0.208)
- Bandur G., Rusnac L., Petrean A., Grandtner G., Plesu N., Abadie M.J.M. : L'etude de la reactivite de quelques monomers acryliques et methacryliques avec un double lien, ***Rev. Roum. Chim***, 52(4), 339-344, 2007. (F.I. = 0.208)
- Sayti L., Taubert L., Milos M., Careja V.: Crystallization of magnesium trihydrate carbonate in presence of surfactants, ***Revue Roumaine de Chimie***, 52(7), 687-692, 2007 (F. I. =0.208)
- 49. Macarie L., Bandur G., Ilia G.: Comparative study of the photoinitiating reactivity of the acylphosphonates and acylphosphine oxides, ***Rev. Roum. Chim***, 52(4), 437-440, 2007 (F. I. = 0.208)

Publicatii ISI 2006

- Cseh L., Mehl G.H.: The design and investigation of room temperature thermotropic nematic gold nanoparticles, *J. Am. Chem Soc.*, 128(41), 13376-13377, **2006. (F.I. =7.419)**
- [Ackermann M.](#), [Pascariu A.](#), [Hoecher T.](#), [Siehl H.-U.](#), [Berger S.](#): Electronic Properties of Furyl Substituents at Phosphorus and their Influence on ³¹P NMR Chemical Shifts, *J. Am. Chem.Soc.*, 128 (26), 8434-8440, **2006. (F.I.=7.419)**
- Iliescu S., Ilia G., Plesu N., Popa A., Pascariu A.: Solvent and catalyst-free synthesis of polyphosphates, *Green Chem.*, 8(8), 727-730, **2006. (F.I.= 3.225)**
- Sisu E., Bosker W. T. E., Norde W.,T Slaghek M., Timmermans J. W., Katalinic J. P., Cohen-Stuart M. A., Zamfir A.: Electrospray ionization quadrupole time-of-flight tandem mass spectrometric analysis of hexamethylenediamine-modified maltodextrin and dextran, *Rapid Commun. Mass Spectrom.*, 20, 209-218, **2006. (F.I. = 3.087)**
- Iliescu S., Ilia G., Pascariu A., Popa A., Plesu N.: Novel synthesis of phosphorus containing polymers under inverse phase transfer catalysis, *Polymer*, 47(19) 6509-6512, **2006. (F.I.=2.849)**
- Zamfir A., Dinca N., Sisu E., Peter-Katalinić J.: Copper-coated microsyringe interface for on-line sheathless coupling capillary electrophoresis electrospray mass spectrometry of carbohydrates, *J. Sep. Sci.*, 29(3), 414-422, **2006. (F.I. = 1.829)**
- Labadi I., Pal E., Tudose R., Costisor O.:Thermal behaviour of complexes of antipyrine derivatives. Part III., *J. Therm. Anal Cal.*, 83(3) 681-686, **2006. (F.I.=1.478)**
- Costişor O., Linert W.: Metal directed reactions toward heteroatomic macrocycles: phtalocyanine, porfirins and corroles, in *Reviews in Inorganic Chemistry* (Londra), Ed. M. Zagen, Fr. Publ. House LTD, **2006, 265(5), 443-470. (ISSN 0193-4929) (F. I. = 1.133)**
- Plesu N., Ilia G., Pascariu A., Vlase G.: Preparation, degradation of polyaniline doped with organic phosphorus acids and corrosion essays of polyaniline-acrylic blends, *Synth. Met.*,156(1-2), 230-238, **2006. (F.I.= 1.320)**
- Vlascici D., Fagadar-Cosma E.,Bizerea-Spiridon O.: A new composition for Co(II)-porphyrin-based membranes used in thiocyanate-selective electrodes, *SENSORS* (Basel), 6(8), 892-900, **2006. (F.I.=1.208)**

Publicatii ISI 2006

- Tudose, R., Pantenburg, I., Mosoarca, E. M., Meyer, G., Costișor, O.: Mannich bases complexes with biological relevance. Synthesis, structure and spectral properties of $[\text{Ni}(\text{TAMEN})](\text{ClO}_4)_2 \cdot \text{DMF}$ (TAMEN = N,N'-tetra(antipyril-4-methyl)-1,2-diaminoethane), *Z. Anorg. Allg. Chem.*, 632, 1494-1495, **2006. (F.I.=1.086)**
- Funar-Timofei S., Fabian W.M.F., Suzuki T., Simu G.M.: Quantitative Structure-Retention Relationships (QSRR) for Chromatographic Separation of Disazo and Trisazo 4,4'-Diaminobenzanilide-based Dyes, *Croat. Chem. Acta*, 79(2), 227-236, **2006. (F.I. = 0.924)**
- Ilia G., Iliescu S., Popa A., Plesu N., Pascariu A.: Green Chemistry in Synthesis of the Biopolymers Containing, *e-Polymers*, **2006**, <http://www.e-polymers.org>. (F.I.=0.926)
- Iliescu S., Ilia G., Popa A., Plesu N., Pascariu A.: Design in biopolymers containing phosphorus, *e-Polymers*, **2006**, <http://www.e-polymers.org>. (F.I.=0.926)
- Muntean S., Kurunczi L., Bologa C., Ilia G., Simon Z.: Dissociation Energy Computations for Saline Bonds Implied in Interactions Mediated by Peptidoglycans, *Macromolecular Symposia*, 235 (1), 215-219, **2006. (F.I. = 0.913)**
- Popa A., Ilia G., Davidescu C-M, Iliescu S., Plesu N., Pascariu A., Zhang Z.: Wittig-Horner reactions on styrene-divinylbenzene supports with benzaldehyde side-groups, *Polym. Bull.*, 57(2), 189-197 **2006. (F.I.= 0.904)**
- Plesu N., Iliescu S., Ilia, Popa A., Muntean C.: Rheology of Pan1 dispersions in Acrylic Resin, *Turk. J. Chem.*, 30(2), 155-163, **2006. (F.I.= 0.579)**
- Ilia G., Petric M., Macarie L., Iliescu S., Popa A.: Phosphorylation of aniline derivatives in biphasic systems, *Phosphorus Sulfur*, 180(7), 1717-1723, **2006. (F.I.=0.564)**
- Mateescu C., Princz E., Khan M.A., Bouet G.: Speciation studies of iron (III) with (poly)phosphonate ligands. The case of EDTMP acid, *Phosphorous, Sulfur*, 181(5), 947-958, **2006. (F.I.=0.564)**
- Chumakov, Yu. M., Simonov, Yu. A., Grozav, M., Crisan, M., Bocelli, G., Yakovenko, A. A., Lyubetsky, D.: Hydrogen-Bonding Network in the Organic Salts of 4-Nitrobenzoic Acid *CEJC*, 4 (3), 458-475, **2006. (F.I.= 0.554)**

Publicatii ISI 2006

- Făgădar-Cosma E., Laichici M., Făgădar-Cosma G., Vlascici D.: Synthesis, Characterization and Correlative Biological Effects in Wheat of a Benzoxaza- and a Diaza- Phosphorus(V) Heterocycles, **J. Serb. Chem. Soc.**, 71(10), 935-944, 2006. (F.I.= 0.522)
- Popa A., Sasca V., Ștefănescu M., Kis E. E., Marinkovic-Neducin R.: The influence of the nature and textural properties of different supports on thermal behavior of Keggin type heteropolyacids, **J. Serb. Chem. Soc.**, 71 (3) 235-249 2006. (F.I. = 0.389)
- Popovici M., Savii C., Niznansky D., Enache C., Ionescu C., Radu R.: Magnetic ϵ -Fe₂O₃ nanoparticles obtained by sol-gel synthesis, **Materials Structure in Chemistry, Biology, Physics and Technology**, 13(2), 79-81, 2006. (F.I.=0.363)
- Tudose R., Journaux Y., Labadi I., Linert W., Costișor O., Andruh M., Brezeanu M.: Mixed Ligand Complexes Of Iron(II), Iron(III) And Cobalt(II) With Pyrazolonic And Pyridine Ligands, **Rev. Roum. Chim.**, 51(1), 13-17, 2006. (F.I. = 0.226)
- Chiriac A., Ciubotariu D., Funar-Timofei S., Kurunczi L., Mracec M., Mracec M., Szabadai Z., Seclaman E., Simon Z.: QSAR and 3D-QSAR in Timisoara. 1972-2005, **Rev. Roum. Chim.**, 51(2), 79-99, 2006. (F.I. = 0.226)
- Popa A. , Sasca V., Marinkovic-Neducin R., Kis E. E.: Catalytic properties of titania-supported heteropolyacids for ethanol oxidation, **Rev. Roum. Chim.**, 51(3) 211-217, 2006. (F.I. = 0.226)
- Mracec M., Juchel L., Mracec M.: QSAR analysis of a series of imidazole derivatives acting on the H₃ receptor, **Rev. Roum. Chim.**, 51(4), 287-292, 2006. (F.I. = 0.226)
- Careja V, Mracec M., Saity L., Șișu E., Tudose R., Simon Z.: Comparative study of some ionic bridges implying Ca and Mg cations by computational methods, **Rev. Roum. Chim.**, 51, 377-381, 2006. (F.I. = 0.226)
- Micle, A., Simon, M., Csunderlik, C.: Studiul obținerii oxazolidin-2-onei din bis(o-nitrofenil)carbonat și etanolamină, **Rev. Chim.-Bucharest**, 5(57), 522-524, 2006. (F.I.=0.308)
- Simon, M., Micle, A., Turoczi, M. C., Badea V., Csunderlik, C.: Bis(o-nitrophenyl) carbonate, a valid alternative reagent to phosgene in asymmetrical N,N'-diaryl ureas synthesis, **Rev. Chim.-Bucharest**, 4, 383-386, 2006. (F.I.=0.308)

Publicatii ISI 2006

- Grozav, M., Szabadai, Z.: Săruri ale acizilor carboxilici cu chinoline, cu potențială activitate biologică. 3. Săruri ale diferiților acizi carboxilici aromatici cu 8-hidroxichinolina, **Rev. Chim.-Bucharest**, 57, 224-226, 2006. (F.I.=0.308)
- Moldovan R., Muntean S. G., Simu G. M., Maranescu B., Pascariu A.: Tehnici de caracterizare a arilazofosfonatilor, **Rev. Chim. - Bucuresti**, 57(3), 281-284, 2006. (F.I.= 0.308)
- Simu G. M., Muntean S. G., Grad M. E., Chicu S. A., Șișu E.: Coloranți direcți derivați ai 4,4'-diaminobenzanilidei. III. Obținerea, caracterizarea și evaluarea toxicității unor noi coloranți disazoici simetrici, **Rev. Chim. - București**, 57(10), 2006. (F.I.= 0.308)
- Sallo A., Crasmareanu C., Simon Z., Raduly S.: Azocoupling in orto-position, a linear-relationship approach to mechanism, **Rev. Chim. - București**, 57(1), 82-84, 2006. (F.I. =0.308)
- Sisu I., Dinca N., Sisu E.: Sinteza de glicozilsulfone in conditiile CTI, **Rev. Chim. - București**, 57(6), 1249-1251, 2006. (F.I.=0.308)
- Maranescu B., Ilia G., Cozmiuc C., Glevitzky M.: Synthesis and Mathematic Models of the HPLC Behavior of Phosphoramidic Derivatives, **Rev. Chim. - București**, 57(10), 1470-1474, 2006. (F.I.=0.308)
- Vlascici D., Spiridon Bizerea O., Fagadar-Cosma E.: Thiocyanate-selective electrode based on rhodium porphyrin derivatives, **J. Optoelectron. Adv. Mat.**, 8(2), 883 – 887, 2006. (F.I.=1.138)
- Popa A., Pleșu N., Sasca V., Kis E.E., Marinkovic-Neducin R.: Physicochemical features of polyaniline supported heteropolyacids, **J. Optoelectron. Adv. Mat.**, 8 (5) 1944-1950, 2006. (F.I. = 1.138)
- Iliescu S., Ilia G., Popa A., Macarie L.: Polyphosphates obtained by the gas-liquid technique, **Mater. Plast.**, 43(2), 83-85, 2006. (F.I. =0.256)
- Marănescu V., Pleșu N., Toma C., Căleanu C., Tănase M.: Nonlinear thermal impedance electrical model for polymers used in electronic industry, **Mater. Plast.**, 42(2), 106-111, 2006. (F.I.=0.256)

Publicatii ISI 2006

- Popa A., Ilia G., Davidescu C-M., Iliescu S., Macarie L., Maranescu B.: Reactii Wittig ale sarurilor de fosfoniu cu liganzi macromoleculari functionalizati cu grupari aldehidice, ***Mater. Plast.***, 43(1), 62-64, 2006. (F.I. = 0.256)
- Căpriță R., Căpriță A., Vintilă T., Ilia G.: The ATP assay, a method for measuring biological activity in industrial water, ***Rev. Roum. Chim***, 51(10), 1051-1057, 2006. (F.I.=0.208)
- Căpriță R., Căpriță A., Ilia G., Ciucanu I.: The influence of the pH on the apparent dissociation constant for Zn^{2+} - carbonic anhydrase izoenzyme II, ***Rev. Chim.-Bucharest***, 57(11), 1112-1114, 2006. (F.I.=0.287)
- Petric M., Macarie L., Pascariu A., Ilia G.: Sinteza fosforamidatilor pornind de la amine fluorurate, ***Rev. Chim.-Bucharest***, 57(12), 1262-1264, 2006. (F.I.=0.287)
- Bandur G., Rusnac L., Petrean A., Grandtner G., Pleșu N., Abadie M.J.M.: Studiul reactivității unor monomeri acrilici și metacrilici cu două duble legături, ***Mater. Plast.***, 43(4), 330-335, 2006. (F.I=0.319)
- Fagadar-Cosma E., Maranescu B., Enache C., Savii C., Fagadar-Cosma G.: Alternatives for obtaining of 5,10,15,20-tetrakis(4-hydroxyphenyl)-21H,23H-porphine. Physico-chemical characterization, ***Revista de Chimie***, 2006, 57(11), 1144-1147. (FI=0.287)