



RALUCA IANCHIȘ

EXPERIENȚA PROFESIONALĂ

Data, poziția ocupată

- 01.10.2015 - prezent; CSI Tehnologia compușilor macromoleculari
- 01.01.2014 - 31.09.2015; CSII Tehnologia compușilor macromoleculari
- 12.06.2010 - 3.12.2013; CSIII Tehnologia compușilor macromoleculari
- 18.02.2008 - 02.14.2010; CS Tehnologia compușilor macromoleculari
- 08.10.2004 - 18.02.2008; ACS Tehnologia compușilor macromoleculari

Angajator

Institutul Național de Cercetare – Dezvoltare pentru Chimie și Petrochimie-ICECHIM, Splaiul Independenței 202, București, România, 060021

Pagină Web

www.icechim.ro; https://www.icechim-pd.ro/ro/syst_heter/sisteme_heterogene.html

Principalele activități și
responsabilități

1) *Sinteza nanomaterialelor* obținute în mediu dispers prin emulsie, miniemulsie, microemulsie, polimerizare în emulsie fără surfactant cu/fără nanoparticule anorganice; nanocompozite polimer-anorganice; Funcționalizarea/modificarea particulelor anorganice; Încapsularea substanțelor hidrofile/hidrofobe, Acoperiri hibride hidrofobe, Membrane compozite pentru tratarea apelor uzate, Sinteza hidrogelurilor nanocompozite; Biopolimeri; Biomateriale cu aplicații în medicină; Formulări utilizate în manufacturare aditivă/ imprimarea 3D

Tipul de activitate

2) *Metode și tehnici de caracterizare* incluzând: analiza dimensională a nanoparticulelor (DLS); determinare de potențial Zeta; Spectrometrie FTIR, Spectrofotometrie UV-VIS, analize termomecanice (TGA, DSC, DMA), Microscopie electronică (SEM)

Cercetare în domeniul chimiei compușilor macromoleculari

EDUCAȚIE ȘI FORMARE

2005-2009 - Doctorat în științe inginerești

Universitatea Politehnica București, Facultatea de Chimie Aplicată și Știința Materialelor

2004-2005 - Studii aprofundate – Tehnologia Compușilor Macromoleculari

Universitatea Politehnica București, Facultatea de Chimie Aplicată și Știința Materialelor

1999-2004 - Inginer Diplomat

Universitatea Politehnica București, Facultatea de Chimie Aplicată și Știința Materialelor

COMPETENȚE PERSONALE

Limba(i) maternă(e)

Alte limbi străine cunoscute

	română		română		
	INȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C2	C2	B2	B2	C2
Franceză	B2	B2	B1	B1	B2

Competențe
organizaționale/
manageriale

▪ abilități tehnice, abilități conceptuale, abilități interpersonale și de comunicare, abilități de luare a deciziilor dobândite în cadrul proiectelor de cercetare naționale și internaționale ca:

Director de proiect - Director de proiect *PNII-PED 2019 și PNIII-PED 2017*;
Director proiect Postdoc *RU-PD-2010-2012*, Director proiect tineri doctoranzi *RU-TD-2007*

Persoana cheie/membru activ *PED, Bridge, TE, POS-CCE, PNII Idei, PNII-HR, FP6, FP7, ERA-IB, MERA.Net*

Competențe dobândite la
locul de muncă

Stagii de specializare

- iulie-august 2011; iulie-august 2012- Centru de Compozite CONCORDIA, Universitatea Concordia, Montreal, Canada
- aprilie-mai 2007 -Departamentul de Chimie și Inginerie Chimică, Universitatea Tehnică din Eindhoven, Olanda;
- martie 2006 -Departamentul de Reacții de Polimerizare și Cromatografie, Institutul de Polimeri în cadrul Academiei de Științe din Bratislava;

Cursuri

- Studii postuniversitare psiho-pedagogice - 2012-2013, Universitatea Politehnica București
- Curs analize termice și mecanice DSC, TGA și DMA – 2011, TA Instruments, Zellik, Belgia
- Cursuri de vară Școala de Microscopie Electronică -2005- SME - INFIM București
- Curs- Manager de inovare- 2017- COR-242106, București

**INFORMAȚII
SUPLIMENTARE**

Premii *Premiul internațional* pentru tineri doctoranzi la Nanobioeuropa 2008, Congres și expoziție internațională, Barcelona, Spania, 2008.

Premiul Societății Române de Chimie la conferința *Priorities of Chemistry for a Sustainable Development - PRIOCHEM XVI ed., Bucharest, Romania, 28-30 October (2020)* pentru lucrarea "Innovative Hydrogel Based Inks with Application in Tissue Engineering", R. Leu-Alexa, H. Iovu, I.C. Radu, G. Vlasceanu, C.M. Ninciuleanu, E. Alexandrescu, C. Mihaescu, C. Scamoroscenco, C. Nistor, C. Petcu, **R. Ianchiș***

Pemiu special la conferința 4th International Conference on Emerging Technologies in Materials Engineering EmergeMAT, Bucharest, Romania, 4-5 November, (2021) cu lucrarea „*Synthesis and Characterization of Green Crosslinked Hydrogels*”, M.M. Marin, I.C. Gifu, C. Ninciuleanu, E. Alexandrescu, C. Scamoroscenco, S. Burlacu, C.L. Nistor, C. Petcu, H. Iovu, R.L. Alexa, **R. Ianchiș***

Peste 30 *de lucrări premiate de UEFISCDI* prin concursul PRECISI „Acordarea rezultatelor cercetării”

Membru în colectiv
editorial

Editor invitat număr special „Nanocompozite polimer-anorganice: sinteză, caracterizare și aplicații în adsorbție și livrarea medicamentelor”, Materials, MDPI

Membru SCR - Societatea de Chimie din România

Membru

Autor și coautor la 51 articole ISI, 1 capitol carte, 1 brevet internațional acordat, 1 brevet național acordat, 4 cereri de brevet național ([vezi anexă](#));
H-index SCOPUS = 15, 664 număr total de citări, peste 100 de participări la conferințe naționale și internaționale

Articole, brevete, citări
Link pagini web

<https://www.brainmap.ro/raluca-ianchis>;

[Scopus Author ID: 23995646600](https://scopus.com/authid/detail.url?authorID=23995646600);

<http://www.researcherid.com/rid/C-4247-2012>;

<https://orcid.org/0000-0002-5540-2774>

Recenzor pentru publicații aparținând editorilor de prestigiu Wiley Interscience, Elsevier, Springer, MDPI, Royal Society of Chemistry-RSC Advances

ANEXĂ

Anexa 1 LISTA DE PUBLICAȚII

Articole (autor principal/corespondent, ordine cronologică)

1. M.M. Marin, **R. Ianchis***, R. Leu Alexa, I.C. Gifu, M.G.A. Kaya, D.I. Savu, R.C. Popescu, E. Alexandrescu, C.M. Ninciuleanu, S. Preda, M. Ignat, R. Constantinescu, H. Iovu*, „*Development of New Collagen/Clay Composite Biomaterials*”, Int. J. Mol. Sci. 2022, 23, 401. <https://doi.org/10.3390/ijms23010401>
2. R.L Alexa, **R. Ianchis***, D. Savu, M. Temelie, B. Trica, A. Serafim, G.M. Vlasceanu, E. Alexandrescu, S. Preda, H. Iovu, "3D Printing of Alginate-Natural Clay Hydrogel-Based Nanocomposites", Gels, 2021, 7(4), 211; <https://www.mdpi.com/2310-2861/7/4/211>
3. R.L Alexa, H. Iovu*, B. Trica, C. Zaharia, A. Serafim, E. Alexandrescu, I-C Radu, Vlasceanu, S. Preda, C.M. Ninciuleanu, **R. Ianchis***, *Assessment of Naturally Sourced Mineral Clays for the 3D Printing of Biopolymer-Based Nanocomposite Inks. Nanomaterials* 2021, 11, 703; <https://www.mdpi.com/2079-4991/11/3/703>
4. P.E. Florian, M. Icriverzi, C.M. Ninciuleanu, E Alexandrescu, B. Trica, S. Preda, **R. Ianchis***, A. Roseanu*, *Salecan-Clay Based Polymer Nanocomposites for Chemotherapeutic Drug Delivery Systems; Characterization and In Vitro Biocompatibility Studies. Materials* 2020, 13, 5389; <https://www.mdpi.com/1996-1944/13/23/5389>
5. **R. Ianchis**, C.M.* Ninciuleanu, I.C. Gifu, E. Alexandrescu, C.L. Nistor, S. Nitu, C. Petcu, *Hydrogel-clay nanocomposites as carriers for controlled release*, Bentham Science, *Current Medicinal Chemistry*, doi: 10.2174/0929867325666180831151055, 2020; <https://www.ncbi.nlm.nih.gov/pubmed/30182847>
6. **R. Ianchis**, C.M.* Ninciuleanu, I.C. Gifu, E. Alexandrescu, R. Somoghi, A.R. Gabor, S. Preda, C.L. Nistor, S. Nitu, C. Petcu, M. Icriverzi, P.E. Florian, A.M. Roseanu, *Novel Hydrogel-Advanced Modified Clay Nanocomposites as Possible Vehicles for Drug Delivery and Controlled Release*, *Nanomaterials*, 7 (12) 2017; <https://www.mdpi.com/2079-4991/7/12/443>
7. S. Caprarescu, **R. Ianchis***, A.L. Radu, A. Sarbu, R. Somoghi, B. Trica, E. Alexandrescu, C.I. Spataru, R.C. Fierascu, D. Ion-Ebrasu, S. Preda, L.I. Atanase, D. Donescu, "Synthesis, characterization and efficiency of new organically modified montmorillonite polyethersulfone membranes for removal of zinc ions from wastewaters", *Applied Clay Science*, 2016, 137, 135–142; <https://www.sciencedirect.com/science/article/pii/S0169131716305488>
8. C. Petcu, V. Purcar, **R. Ianchis***, C.I. Spataru, M. Ghiurea, C.A. Nicolae, H. Stroescu, L.I. Atanase, A.N. Frone, B. Trica, D. Donescu, *Synthesis and characterization of polymer-silica hybrid latexes and sol-gel-derived films*, *Applied Surface Science*, 666–672, 2016; <https://www.sciencedirect.com/science/article/pii/S0169433216315124>
9. **R. Ianchis**, I.D. Rosca, M. Ghiurea, C.I. Spataru, C.A. Nicolae, R. Gabor, V. Raditoiu, S. Preda, R.C. Fierascu, D. Donescu, *Synthesis and properties of new epoxy-organolayered silicates nanocomposites*, *Applied Clay Science*, 103, 28–33, 2015; <https://www.sciencedirect.com/science/article/pii/S0169131714004153>
10. **Raluca Ianchis**, Dan Donescu, Ludmila Otilia Cinteza, Violeta Purcar, Cristina Lavinia Nistor, Cristian Petcu, Cristian Andi Nicolae, Raluca Gabor, Silviu Preda, *Polymer-clay nanocomposites obtained by solution polymerization of vinyl benzyl triammonium chloride in the presence of advanced functionalized clay*, *Journal of Chemical Science* Vol. 126, No. 3, May 2014, pp. 609–616; <https://link.springer.com/article/10.1007/s12039-014-0621-0>
11. Mihai Cosmin Corobea, Ignac Capek, **Raluca Ianchis***, Dan Donescu, Raluca Somoghi, Marius

- Ghiurea, Cristina Lavinia Nistor, Violeta Purcar, Ludmila Otilia Cinteza, Constantin Radovici, Gabriel Prodan, *Silica nanowires obtained on clay mineral layers and their influence on mini-emulsion polymerisation-* Applied Clay Science, 95 (2014) 232–242; <https://www.sciencedirect.com/science/article/pii/S016913171400132X>
12. **R. Ianchis**, V. Raditoiu, L. Wagner, M. Ghiurea, R. Somoghi, C.-I. Spataru, V. Purcar, L. C. Nistor, D. Donescu, *Polymer dispersions containing thermochromic system-* Optoelectronics and Advanced Materials – Rapid Communications vol. 8, iss. 7-8/2014; http://www.academia.edu/16837725/Polymer_dispersions_containing_thermochromic_system
 13. **R. Ianchis**, D. Donescu, R. Somoghi, M.C. Corobea, L.C. Nistor, M. Ghiurea, C. Petcu, C.A. Nicolae, R. Gabor, I. Atkinson, *Miniemulsion polymerization of styrene in the presence of different commercial clays*, Journal of Optoelectronics and Advanced Materials, 15, 5- 6, 578-582, 2013; https://www.researchgate.net/profile/Cristina_Nistor2/publication/260261679_Miniemulsion_polymerization_of_styrene_in_the_presence_of_different_commercial_clays/links/573ef28f08ae298602e8e4d0.pdf
 14. R. Somoghi, **R. Ianchis***, M. Ghiurea, V. Purcar, D. Donescu, *New nanostructures derived from magnetic polymer hybrids and functional silanes*, Journal of Optoelectronics and Advanced Materials, 15, 5-6, 2013, 583-588; <https://www.scopus.com/record/display.uri?eid=2-s2.0-84881268711&origin=resultslist&sort=plf-f&src=s&sid=4c81d662ae0253090659d013a4fa4af8&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2823995646600%29&relpos=15&citeCnt=2&searchTerm=>
 15. D. Donescu, **R. Ianchis***, C. Petcu, V. Purcar, C. L. Nistor, C. Radovici, R. Somoghi, S. F. Pop, A. Perichaud, *Study of the solvents influence on the layered silicates - cation polymer hybrids properties*, Digest Journal of Nanomaterials and Biostructures, 8, 4, 2407 – 2416, October – December 2013; http://www.chalcogen.ro/1751_Donescu.pdf
 16. **R. Ianchis**, M. C. Corobea, D. Donescu, I. D. Rosca, L. O. Cinteza, L. C. Nistor, E. Vasile, A. Marin, S. Preda, *Advanced functionalization of organoclay nanoparticles by silylation and their polystyrene nanocomposites obtained by miniemulsion polymerization*, Journal of Nanoparticle Research, 14:1233-1236, 2012; <https://link.springer.com/article/10.1007/s11051-012-1233-6>
 17. **R. Ianchis**, L.O. Cinteza, D. Donescu, C. Petcu, M.C. Corobea, M. Ghiurea, R. Somoghi, C. Spataru- *Implications of silylated montmorillonite on montmorillonite polyacrylate-nanocomposites*, Applied Clay Sci, 52, 96–103, 2011; <https://www.sciencedirect.com/science/article/pii/S0169131711000585>
 18. **R. Ianchis**, D. Donescu, C. Petcu, M.C. Corobea, C.L. Nistor R. Somoghi, R. D. Fierascu – *Synthesis of superhydrophobic montmorillonite by edge covalent bonding with monofunctional alkoxy silane*, OAMRC, 5, 12, 1352 – 1355, 2011; https://www.researchgate.net/publication/259579170_Synthesis_of_superhydrophobic_montmorillonite_by_edge_covalent_bonding_with_monofunctional_alkoxysilane
 19. **R. Ianchis**, L.O. Cinteza, D. Donescu, C. Petcu, M.C. Corobea, M. Ghiurea, R. Somoghi, C. Spataru- *Implications of silylated montmorillonite on montmorillonite polyacrylate-nanocomposites*, Applied Clay Science, 52, 96–103, 2011; <https://www.sciencedirect.com/science/article/pii/S0169131711000585>
 20. **R. Ianchis**, D. Donescu, M. C. Corobea, C. Petcu, M. Ghiurea, S. Serban, C. Radovici, *Synthesis of polystyrene/polybutylacrylate/layered silicate nanocomposites in aqueous medium*, Colloid and Polymer Science, 288, 1215-1224, 2010 <https://link.springer.com/article/10.1007/s00396-010-2251-5>
 21. **R. Ianchis**, D. Donescu, M. Ghiurea, C.Petcu, A. Marcu, D. F. Anghel, G. Stanga, *Surfactant-free emulsion polymerization of styrene in the presence of silylated montmorillonite*, Applied Clay Sci, 45, 3, 164-170, 2009; <https://www.sciencedirect.com/science/article/pii/S0169131709001021>
 22. **R. Ianchis**, D. Donescu, V. Purcar, R. C. Fierascu, C. Petcu, V. Raditoiu, *Organic-Inorganic Hybrid Latexes Colored with Azoic Dyes*, OAM-RC, 3, 1, 77-82, 2009;

<https://www.scopus.com/record/display.uri?eid=2-s2.0-77952004100&origin=resultslist&sort=plf-f&src=s&sid=4c81d662ae0253090659d013a4fa4af8&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2823995646600%29&relpos=4&citeCnt=10&searchTerm=>

23. **R. Ianchis**, D. Donescu, C. Petcu, *Influence of layered silicate on microemulsion polymerization kinetics of butylacrylate with alkoxyane*, *Materiale Plastice*, 45, 3, 265-268, 2008; <http://www.revistadechimie.ro/pdf/IANCHIS%20R.pdf>
24. **R. Ianchis**, D. Donescu, C. Petcu, M. Ghiurea, R. Somoghi, S. Serban, *Nanodispersed systems obtained in the presence of alkoxy silane and layered silicates*, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* 70 (2), 45-54, 2008; https://www.scientificbulletin.upb.ro/?page=revistaonline&a=2&arh_an=2008&arh_ser=B&arh_nr=2
25. D. Donescu, R. Somoghi, C. Petcu, M.C. Corobea, **R. Ianchis***, C.L. Nistor, *Silica hybrid particles synthesized through sol-gel processes*, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* 70 (2), 39-44, 2008; https://www.scientificbulletin.upb.ro/SeriaB - Chimie si Stiinta Materialelor.php?page=revistaonline&a=2&arh_an=2008&arh_ser=B&arh_nr=2

Articole (co-autor, ordine cronologică)

1. *3D Printable Composite Biomaterials Based on GelMA and Hydroxyapatite Powders Doped with Cerium Ions for Bone Tissue Regeneration*, R. Leu Alexa, A. Cucuruz, C.-D. Ghițulică, G. Voicu, L.-R. Stamat, S. Dinescu, G.M. Vlasceanu, C. Stavarache, **R. Ianchis**, H. Iovu, M. Costache. *International Journal of Molecular Sciences*, 2022, 23(3), 1841.
2. *3D-printed gelatin methacryloyl-based scaffolds with potential application in tissue engineering*, R.L. Alexa, H. Iovu, J. Ghitman, A. Serafim, C. Stavarache, M.M. Marin, **R. Ianchis**, *Polymers*, 2021, 13(5), 727.
3. *The effects of monomer, crosslinking agent, and filler concentrations on the viscoelastic and swelling properties of poly(methacrylic acid) hydrogels: A Comparison*, C.M. Ninciuleanu, **R. Ianchis**, E. Alexandrescu, C.I. Mihaescu, C. Scamoroscenco, C.L. Nistor, S. Preda, C. Petcu, M. Teodorescu, *Materials*, 2021, 14(91), 2305.
4. *3D printing of super concentrated alginate clay ink with potential application in regenerative medicine*, R.L. Alexa, H. Iovu, M.C. Nicolae, I.C. Mihaescu, E. Alexandrescu, R. Ianchis, *UPB Sci. Bull., Series B: Chemistry and Materials*, 2021, 83(4), 197-208.
5. *Nanocomposite hydrogels based on poly(Methacrylic acid) and laponite xlg*, C. Ninciuleanu, **R. Ianchis**, E. Alexandrescu, C. Mihaescu, B. Trica, C. Scamoroscenco, C. Nistor, C. Petcu, S. Preda, M. Teodorescu, *UPB Scientific Bulletin, Series B: Chemistry and Materials*, 2021, 83(1), 43-58.
6. *Vegetable oil-based microemulsions with dermato-cosmetic applications*, Scamoroscenco C., Cinteza L.O., Teodorescu M., Gifu I.C., **Ianchis R.**, Nistor C.L., Petcu C., Ninciuleanu C.M., Alexandrescu E., Mihaescu C.I., *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2020, 82(2), 27-38
7. *Antimicrobial Activities of Hydrophobically Modified Poly(Acrylate) Films and Their Complexes with Different Chain Length Cationic Surfactants*, I.C. Gifu, M.E. Maxim, L.O. Cinteza, M. Popa, L. Aricov, A.R. Leonties, M. Anastasescu, D.F. Anghel, **R. Ianchis**, C.M. Ninciuleanu, S.G. Burlacu, C.L. Nistor, C. Petcu, *Coatings*, 2019, 9(4), 244-256;
8. *Effect of coupling agent on nano-ZnO materials obtained by sol-gel process*, Violeta Purcar, Raluca Șomoghi, Sabina Georgiana Nițu, Cristian-Andi Nicolae, Elvira Alexandrescu, Ioana Cătălina Gîfu, Augusta Raluca Gabor, **Raluca Ianchiș**, Simona Căprărescu, *Nanomaterials*, 2017, Volume 7, 439;
9. *Supercritical CO₂ assisted synthesis of flower – like ZnO nanoparticles*, L.O. Cinteza, D. Bala, C. Tablet, E. Alexandrescu, R. Somoghi, V. Purcar, C. Gifu, **R. Ianchis**, C. Petcu, *Journal of Optoelectronics and Advanced Materials*, 2017 ;
10. *Commercial Gooseberry Buds Extract Containing Membrane for Removal of Methylene Blue Dye from Synthetic Wastewaters*, Simona Caprarescu, Alexandra Raluca Miron, Violeta Purcar, Anita Laura

- Radu, Andrei Sarbu, **Raluca Ianchis**, Daniela Ion Erbasu, *REV.CHIM.*, 68, 8, 2017,
11. C.I. Spataru, **R. Ianchis**, C. Petcu, C.L. Nistor, V. Purcar, B. Trica, S.G. Nitu, R. Somoghi, E. Alexandrescu, F. Oancea, D. Donescu, "*Synthesis of Non-Toxic Silica Particles Stabilized by Molecular Complex Oleic-Acid/Sodium Oleate*", International Journal of Molecular Sciences, 2016, 17, 1936-1947;
 12. ION EXCHANGERS-PVA BLEND MEMBRANES: PREPARATION, CHARACTERIZATION AND PERFORMANCE FOR THE REMOVAL OF Zn^{2+} BY ELECTRODIALYSIS, Simona Caprarescu, Anita-Laura Radu, Violeta Purcar, **Raluca Ianchis**, Andrei Sarbu, Marius Ghiurea, Cristian Nicolae, Cristina Modrogan, Danut-Ionel Vaireanu, Alain Périchaud, Daniela-Ion Ebrasu, *Applied Surface Science*, 329, 65- 75, 2015;
 13. SAN COPOLYMER MEMBRANES WITH ION EXCHANGERS FOR $Cu(II)$ REMOVAL FROM SYNTHETIC WASTEWATER BY ELECTRODIALYSIS, Simona Caprarescu, Mihai Cosmin Corobea, Violeta Purcar, Catalin Ilie Spataru, **Raluca Ianchis**, Gabriel Vasilevici, Zina Vuluga, *Journal of Environmental Sciences* 35(2015)27–37;
 14. FACILE PREPARATION IN TWO STEPS OF HIGHLY HYDROPHOBIC COATINGS ON POLYPROPYLENE SURFACE, Cristian Petcu, Cristina Lavinia Nistor, Violeta Purcar, Ludmila Otilia Cinteza, Catalin-Ilie Spataru, Marius Ghiurea, **Raluca Ianchis**, Mihai Anastasescu, Mihai Stoica, *Applied Surface Science* 347 (2015) 359–367;
 15. REMOVAL OF ZINC IONS FROM MODEL WASTEWATER SYSTEM USING BICOPOLYMER MEMBRANES WITH FUMED SILICA, Petcu Cristian, Violeta Purcar, Radu Anita-Laura, Ianchis Raluca, Elvira Alexandrescu, Sarbu Andrei, Ion-Ebrasu Daniela, Miron Alexandra Raluca, Modrogan Cristina, Ciobotaru Alina Ioana, *Journal of Water Process Engineering*, 2015, 8, 1-10;
 16. HYDROPHOBIC AND TRANSPARENT SILICA HYBRID SOL-GEL COATINGS FOR POLYCARBONATE SUBSTRATE, C. Petcu, M.C. Rusu, V. Purcar, C.L. Nistor, C.I. Spataru, R. Somoghi, **R. Ianchis**, *Buletinul Institutului Politehnic din Iasi*, 2015, 61(1), 81-91.
 17. WATER DISPERSIONS OF SILVER NANOPARTICLES STABILIZED BY VINYLEETHERS - MALEIC ANHYDRIDE ALTERNATING COPOLYMERS-D. Donescu, R. Somoghi, C. L. Nistor, M. Ghiurea, R. Ianchis, C. Petcu, C. I. Spataru, V. Purcar *Digest Journal of Nanomaterials and Biostructures* Vol. 9, No. 2, April – June 2014, p. 881 – 889,
 18. REMOVAL OF COPPER IONS FROM SIMULATED WASTEWATERS USING DIFFERENT BICOMPONENT POLYMER MEMBRANES- Caprarescu, Simona; Radu, Anita-Laura; Purcar, Violeta; Sarbu, Andrei; Vaireanu, Danut-Ionel; Ianchis, Raluca; Ghiurea, Marius- *Water, Air, & Soil Pollution* (2014) 225: 1-12, July 19, 2014
 19. D. Donescu, R. Somoghi, M. Ghiurea, **R. Ianchis**, C. Petcu, S. Gavriliu, M. Lungu, C. Groza, C. R. Ionescu, C. Panzaru, *Aqueous Dispersion of Silver nanoparticles in polyelectrolyte solutions*, *J. Chem. Sci.*, 125, 2, 419-429, 2013;
 20. A. Marcu, S. Pop, F. Dumitrache, M. Mocanu, C.M. Niculite, M. Gherghiceanu, C.P. Lungu, C. Fleaca, **R. Ianchis**, A. Barbut, C. Grigoriu, I. Morjan, Magnetic iron oxide nanoparticles as drug delivery system in breast cancer, *Applied Surface Science*, [281](#), 15 60–65, 2013;
 21. V. Purcar, S. Caprarescu, D. Donescu, C. Petcu, I. Stamatina, **R. Ianchis**, H. Stroescu, *Degradation of TiO_2 and/or SiO_2 hybrid films doped with different cationic dyes*, *Thin Solid Films*, 534, 301–307, 2013;
 22. D. Donescu, R. Somoghi, C. Nistor, **R. Ianchis**, M. Ghiurea, G. Prodan, C. Radovici, *Copolymerization in dispersion of divinyl benzene–maleic anhydride in the presence of silylated montmorillonite clays*, *Polymer Bulletin*, 68, 993–1007, 2012
 23. C. L. Nistor, D. Donescu, **R. Ianchis**, C. Spataru, V. Raditoiu, C. Petcu, M. Ghiurea, C. Deleanu, *Encapsulation of three different hydrophobic dyes in functionalized silica particles*, *Journal of Sol-Gel Science and Technology*, 59, 1, 48-56, 2011;
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