Universitatea POLITEHNICA din Bucureşti
Facultatea de Chimie Aplicată şi Ştiinta Materialelor

# STAN Liane Gloria Raluca

FOTOGRAFIE

**Profesor**
**Departmentul: Chimie Organica „C. Nenitescu”**
**Grupul de cercetare (daca este cazul):**

## Contact

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## Date biografice

| Perioada | Pozitie ocupata |
|---|---|
| 1987-1990 | **Inginer chimist- combinatul Chimic ARPECHIM Pitesti** |
| 1990-1998 | **Asistent universitar – Catedra Chimie Organica, Universitatea Politehnica din Bucuresti** |
| 1998-2002 | **Sef de lucrari– Catedra Chimie Organica, Universitatea Politehnica din Bucuresti** |
| 2002-2007 | **Conferentiar – Catedra Chimie Organica, Universitatea Politehnica din Bucuresti** |
| 2007 - prezent | **Profesor – Departament Chimie Organica C. Nenitescu”, Universitatea Politehnica din Bucuresti** |

## Cercetare

***Domenii de cercetare :*** sinteza organica fina, complecsi tricarbonil-crom aromatici, sisteme moleculare organizate

### *Proiecte cercetare (selectie)*

**1. „**Bio-produse dermato-cosmetice pe baza de uleiuri vegetale si fitocomplecsi cu actiune anti-acneica”, **PN-II-PT-PCCA-2013-4-1761, -** membru in echipa

**2.** „*Sinteze de materiale dentare cu contractie redusa mediate de organogelifianti »,* PCE ID_1718, **2009-2011- ,** Valoare totala 820000 lei- director

**3.** “Catalizatori enantioselectivi si nanostructurati proveniti din complecsi carbonil-metal aromatic”, PCE ID_918, **2007-2010.-** membru in echipa

**4.** „*Sinteza de silice nanostructurata mediata de organogelifianti”*, cod CNCSIS 113, **2007-2008,** valoare 140000 lei -director

**5. „***Sinteza unor noi organogelifianţi cu proprietăţi complexante utilizabili în producerea de nanofire metalice*", cod CNCSIS 1427, **2004-2006.** valoare totala 56500 lei- director

**6**. *„Sinteze de noi substanţe optic active utilizabile în cataliza şi cromatografia enantioselectivă"*, contract CNCSIS-Banca Mondială, cod CNCSIS 240), **2001-2002 –** director

## Activitate academica

### *Activitate didactică (in prezent)*

| Program Studii | Specializare/Facultate | Cod | Titlu disciplina | Tip activitate |
|---|---|---|---|---|
| Licenta | Chimia si Ingineria Substantelor Organice Petrochimie si Carbochimie/- Chimie Aplicata si Stiinta Materialelor | UPB.11.F.05.O.301 UPB.11.F.06.O.313 | Chimie organica | curs |
| | Chimie Alimentara si Tehnologii Biochimice/ Chimie Aplicata si Stiinta Materialelor | UPB.11.F.05.O.401 UPB.11.F.06.O.412 | Chimie organica | curs |
| | Stiinta si Ingineria Polimerilor/ Chimie Aplicata si Stiinta Materialelor | UPB.11.F.05.O.701 UPB.11.F.06.O.712 | Chimie organica | curs |
| | Chimia si Ingineria Substantelor Organice Petrochimie si Carbochimie/- Chimie Aplicata si Stiinta Materialelor | UPB.11.S.08.O.318 | Bazele cosmeticii | curs |
| | Chimie Alimentara si Tehnologii Biochimice/ Chimie Aplicata si Stiinta Materialelor | UPB.11.S.07.O.405 | Produsi de sinteza de uz alimentar | curs |
| | Controlul si Expertiza Produselor alimentare / Chimie Aplicata si Stiinta Materialelor | UPB.11.T.04.O.217 | Aditivi si Ingrediente pentru Industria alimentara | curs |
| Master | Produse Farmaceutice si Cosmetice | UPB.11.S.11.O.305 | Ingrediente si formulari pentru produse cosmetice | curs |

### *Alte activitati didactice (in trecut)*

## Titluri si premii

### *Premii*

***Membru in Organizatii Profesionale-*** Societatea de Chimie din Romania,

### *Alte activităti semnificative*

2005-2008- secretar stiintific – Facultatea Chimie Aplicata si Stiinta Materialelor

2008- prezent- Prodecan cu probleme de invatamant - Facultatea Chimie Aplicata si Stiinta Materialelor

- membru CNATDCU- Comisia de inginerie chimica, inginerie medicala, stiinta materialelor si nanomateriale

## Publicatii

### *Nr.total carti, articole, conferinte, brevete-*

**Articole – 32 ISI, 10 BDI, 2 cereri de brevete, 6 carti si capitole de carti, 51 de lucrari prezentate la conferinte internationale**

### *Articole publicate in reviste de specialitate (selectie)*

**1.** I Lacatusu, G Niculae, N Badea, R Stan, O Popa, Ovidiu Oprea, Aurelia Meghea , Design of soft lipid nanocarriers based on bioactive vegetable oils with multiple health beneficies, *Chemical Engineering Journal* 246 (**2014**) 311–321 Elsevier, http://dx.doi.org/10.1016/j.cej.2014.02.041

2. Gabriela Niculae, Ioana Lacatusu, Nicoleta Badea, Aurelia Meghea, Raluca Stan, Influence of vegetable oil on the synthesis of bioactive nanocarriers with broad spectrum photoprotection, *Cent. Eur. J. Chem***2014**, 12(8) • 837-850, DOI: 10.2478/s11532-014-0503-9

**3.** Balanuca B., Lungu A.,. Hanganu A, Stan L.R., Vasile E. and Iovu H., Hybrid nanocomposites based on POSS and networks of methacrylated camelina oil and various PEG derivatives, European Journal of Lipid Science and Technology, **2014**, Volume 116, Issue 4, pages 458–469, , DOI: 10.1002/ejlt.201300370,.

**4.** Gabriela Niculae, Ioana Lacatusu, Nicoleta Badea, Raluca Stan, Bogdan Stefan Vasile and Aurelia Meghea
Rice bran and raspberry seed oil-based nanocarriers with self-antioxidative properties as safe photoprotective formulations **,** *Photochem. Photobiol. Sci*., **2014**, *13***,** 703–716**.,** DOI**:** 10.1039/C3PP50290B

**5.** I. Lacatusu, N. Badea, G. Niculae, N. Bordei, R. Stan and A. Meghea, Lipid nanocarriers based on natural compounds: an evolving role in further plant extracts delivery, *European Journal of Lipid Science and Technology*, **2014**, DOI: 10.1002/ejlt.201300488, In press

**6.** G. Niculae, I Lacatusu, A. Bors, R.Stan, Photostability enhancement by encapsulation of alfa-tocopherol into lipid-based nanoparticles loaded with UV filter, C. R. Chimie 17 (2014) 1028–1033, DOI10.1016/j.crci.2013.12.007

**7.** Lacatusu, I., Mitrea, E., Badea, N., Stan, R., Oprea, O., Meghea, A. , Lipid nanoparticles based on omega-3 fatty acids as effective carriers for lutein delivery. Preparation and in vitro characterization studies, *Journal of Functional Foods*, **2013,** Volume 5, Issue 3, , Pages 1260–1269.

**8** I Lacatusu, N Badea, **R Stan** and A Meghea, Novel bio-active lipid nanocarriers for the stabilization and sustained release of sitosterol, Nanotechnology 23 (2012) 455702 .

**9** Raluca Stan*, Cristina Ott, Georgeta Voicu, Adriana Lungu and Sorin I. Roşca, Cr- Doped Nanostructured Silica Obtained via Structure Directing Agents and Chiral 1-Phenylethylamine-Tricarbonyl-Chromium, *Romanian Journal of Materials*, **2011**, 41(3), 234-239.

**10.** S.I.Rosca, Raluca Stan, Cristina Ott, M. Raicopol, Manuela Chiper, "Renewable Chiral Auxiliary for Enantioselective Synthesis of alpha-aminoacids", *Revista de Chimie*, **2010,** *61(8)*, 750-754.

**11.** S.I. Rosca, Raluca Stan, Camelia Bratu, C. Deleanu, "New Carbon-carbon Bonds Formation Mediated by Chromium Hexacarbonyl", *Revista de Chimie*, **2010,** *61(10)*, 940-945.

**12.** S.I.Rosca, Raluca Stan, Cristina Ott, Elena Parlea, "Condensation Reactions of Planar Chiral Tricarbonyl-Chromium-Complexed Benzylic Alcohols and Acetates with Reactive Arenes", *Revue Roumaine de Chimie*, **2010**, *55*, (6), 327-333.

**13.** Raluca Stan, Cristina Ott, Nicoleta Sulca, Adriana Lungu, Horia Iovu, "Functionalized D-Sorbitol-Based Organogelators for Dental Materials (I), *Materiale Plastice*, **2009**, *46(3)*, 230.

**14.** Nicoleta Mihaela Sulca , Adriana Lungu, C. Zaharia, Raluca Stan, H. Iovu, "Determination of the Monomer Reactivity Ratios in Copolymerization of Two Distinct Dimethacrylates for Dental Use", *Materiale Plastice*, **2010**, *47(2)*, 254-258

## *Cărti (selectie)*

1. **Raluca Stan,** *Aditivi alimentari- produşi naturali şi de sinteză,* Editura Printech, Bucuresti, ISBN-978-973-718-723-9, 320 pag., **2007.**

2. **Raluca. Stan**, Sorin Roşca, *" Chimie Experimentală- Sinteza",* Ministerul Educatiei si Cercetarii, Proiectul pentru Invăţământul Rural, Bucureşti, ISBN 973-0-04267-5, 140 pag., **2005**.

3. **Raluca Stan,** "*Produşi de sinteză de uz alimentar*", Ed. Printech, Bucureşti, ISBN 973-652-530-9, 159 pagini, **2002**.

## *Capitole in cărti*

1. Liane Gloria Raluca Stan, Rodica Mirela Nita and Aurelia Meghea (**2012**). Molecular Interactions in Natural and Synthetic Self-Assembly Systems, in *Molecular Interactions*, Aurelia Meghea (Ed.), ISBN: 978-953-51-0079-9, InTech, DOI: 10.5772/35537. Available from: http://www.intechopen.com/books/molecular-interactions/molecular-interactions-in-natural-and-synthetic-self-assembly-systems, 39 pag