

**Facultatea de Chimie Aplicată și Știința Materialelor**

**Departamentul de Inginerie Chimică și Biochimică**

**Concurs pentru obținerea ABILITĂRII**

## **LISTA DE LUCRĂRI**

**Prof. dr. ing. ANICUȚA STOICA**

### **TEZA DE DOCTORAT (T)**

T1. Anicuța Stoica-Guzun, **Modelarea proceselor cu reacție chimică oscilantă**, Universitatea Politehnica din București, 1997.

### **B.Brevete**

#### **Coautor al următoarelor brevete:**

- B1. Procedeu de obținere a unui produs bacterian cu activitate antifungică (Process for preparing a bacterial product with antifungal effect on *Bacillus amylolicofaciens* culture by cultivating the microbial strain on glucose and mineral salts) RO 126895—A2; RO 126895—A8, RO 126895—B1; OSIM, Romania, DIIDW: 2012D53527.
- B2. Bicomponent Composite With Polymeric Matrix for the Thermal Rehabilitation of Buildings, RO126952-A2; OSIM ROMANIA, DIIDW: 2012D53495.
- B3. Novel Component for Thermal Rehabilitation of Buildings involves a process for treating some granules of raw expanded polystyrene, RO126951-A2; OSIM ROMANIA, DIIDW: 2012D53497.
- B4. Membranes and sorbents developed from the composite system cellulose/biocellulose-silica gel; RO127026-A2; DIIDW: 2012D53498.

### **CARTI SI CAPITOLE DIN CARTI (C)**

*Cărți publicate (Ca, Cb, Cc), îndrumare publicate (I1, I2 etc.), capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc. (D1, D2 etc.), după caz, prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale.*

#### **Cărți/cursuri (manuale) publicate în edituri recunoscute (Ca)**

- Ca1. Anicuța Stoica, Marta Stroescu, Tănase Dobre, Octavian Floarea, **Operații de transfer termic în industria alimentară**, Ed. Politehnica Press, 2007, București.
- Ca2. Anicuța Stoica, Iuliana Jipa, Marta Stroescu, T. Dobre, **Dimensionarea tehnologică a coloanelor de rectificare cu talere**, Ed. Printech, 2010, București.
- Ca3. Anicuța Stoica, Marta Stroescu, Tănase Dobre, **Probleme de transfer termic cu aplicații în ingineria alimentară**, Ed. Electra, București, 2015.

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## **Cb - Cărți de specialitate publicate în edituri recunoscute**

- Cb1. Anicuța Stoica-Guzun, O. Floarea, T. Dobre, **Transfer de masă și reacție chimică la interfața lichid-lichid**; Ed. Matrix ROM-2000, București.
- Cb2. Anicuța Guzun Stoica, Marta Catalina Stroescu, T. Dobre, O. Floarea, **Operații de transfer interfazic**, Ed. Matrix ROM- 2001, București.
- Cb3. Amalia Gheorghe, Anicuța Stoica, Marta Stroescu, **Separări și purificări cu membrane emulsionate lichide**, Ed. Printech, 2009, București.

## **Capitole teoretice redactate**

- Cc1. Anicuța Stoica-Guzun, **Advanced textiles for medical uses, Chapter 12**, in Textiles: Types, Uses and Production Methods, Editor: Ahmed El. Nemr, Nova Publishers, 2012, ISBN: 978-1-62100-284-0

## **ARTICOLE/STUDII IN EXTENSO (R, V)**

*Ris – reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters sau indexate în alte baze de date internaționale - BDI, specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).*

*Reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters)*

- Ris.1. Isopencu G., Marfa M., I. Jipa, Stroescu M., **Stoica Guzun A.**, Chira N., Popescu M., Optimisation of the Oil Extraction from *Nigella sativa* Seeds Using Response Surface Methodology, **Revista de chimie**, **68(2)**, (2017) **331-336**; ISSN 0034-7752; (FI=0,956).
- Ris.2. Dima Ș.O., Dobre T, **Stoica-Guzun. A.**, Oancea F, Jinga S.I, Nicolae C.A. Molecularly Imprinted Bio-Membranes Based on Cellulose Nano-Fibers for Drug Release and Selective Separations, **Macromolecular Symposia**, **359(1)**, 2016, **124-128**; (FI=0.47).
- Ris.3. Juncu G., **Stoica-Guzun A.**, Stroescu M., Isopencu G., Jinga S. I., Drug release kinetics from carboxymethylcellulose-bacterial cellulose composite films, **International Journal of Pharmaceutics**, **510(2)**, (2016), **485-492**; doi: 10.1016/j.ijpharm.2015.11.053; (FI=3.994).
- Ris.4. **Stoica-Guzun A.**, Stroescu M., Jinga S. I., Mihalache N., Botez A., Cristian M., Berger D., Damian C. M., Valentin I., Box-Behnken experimental design for chromium (VI) ions removal by bacterial cellulose-magnetite composites, **International Journal of Biological Macromolecules**, **91**, (2016), **1062-1072**; doi:10.1016/j.ijbiomac.2016.06.070; (FI=3.138).
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- Ris.6. Dobre T., Pârvulescu O. C., Stoica-Guzun A., Stroescu M., Jipa I., Al Janabi A.A.A., Heat and mass transfer in fixed bed drying of non-deformable porous particles, **International Journal of Heat and Mass Transfer**, **103**, (2016), **478-485**; doi:10.1016/j.ijheatmasstransfer.2016.07.079; (FI=2,857).

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- Ris.7. Stroescu M., **Stoica-Guzun A.**, Isopencu G., Jinga S. I., Parvulescu O., Dobre T., Vasilescu M., Chitosan-vanillin composites with antimicrobial properties, *Food Hydrocolloids*, **48**, (2015), 62-71; doi:10.1016/j.foodhyd.2015.02.008; (FI=3.858).
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- Ris.9. Avram M., Stroescu M., **Stoica-Guzun A.**, Floarea O., Dobre T., Optimization of Curcumin Extraction from Turmeric Powder using a Box-Behnken Design (BBD), *Revista de chimie*, **66(1)**, (2015), 79-82; ISSN 0034-7752; (FI=0,956).
- Ris.10. Avram M., Stroescu M., Stoica-Guzun A., Floarea O., Optimization of the Oil Extraction from Camelina (*Camelina sativa*) Seeds Using Response Surface Methodology, *Revista de chimie*, **66(3)**, (2015), 417-421; ISSN 0034-7752; (FI=0,956).
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- Rio.7. Dobre T., Parvulescu O. C., Iavorschi G., **Stoica A.**, Stroescu M., Catalytic Effects at Pyrolysis of Wheat Grains Impregnated with Nickel Salts, *International Journal of Chemical Reactor Engineering*, **8**, (2010), Article Number: A103.
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## CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, F)

**P – Proiecte de cercetare-dezvoltare-inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (Pn - naționale, Pi – internaționale)**

### Proiecte conduse ca director/responsabil din partea UPB

- Pn1. Utilizarea membranelor lichide în procese de extracție cu particularizări la purificarea apelor reziduale, nr. UPB/48 - 94 - 11/1994/Beneficiar I.N.C.D.T.P. Filiala ICPI-Bucuresti.
- Pn2. Studiul capacității de separare a sistemelor sol-gel folosind geluri de colagen cu proprietăți reologice speciale, nr. UPB/48-98-8 din 10.07.1998/ Beneficiar I.N.C.D.T.P. Filiala ICPI-Bucuresti.
- Pn3. Studii privind utilizarea microemulsiilor cu adaos de colagen pentru separarea metalelor grele și a polifenolilor din apele reziduale, nr.UPB/48-98-12 din 30.07.1998/ Beneficiar I.N.C.D.T.P. Filiala ICPI-Bucuresti.
- Pn4. Utilizarea suporturilor de colagen în sisteme sol-gel pentru adsorbția ionilor metalici și polifenolilor, nr. UPB/48-98-13 din 30.07.1998./ Beneficiar I.N.C.D.T.P. Filiala ICPI-Bucuresti.
- Pn5. Recuperarea nicotinei din deseuri de tutun și ape reziduale provenite de la prelucrarea tutunului, 48-20-03; 48-01-12/2000-2001; Subcontract ICECHIM Bucuresti.
- Pn6. Tehnologii de recuperare și recirculare din efluenți lichizi a uraniului și a unor reactivi chimici în scopul reducerii costurilor de fabricație și a limitării impactului ecologic la uzina de procesare a minereului de uraniu, 48-01-40; 48-02-01/2001-2002, Program Relansin – subcontract ICECHIM, Beneficiar: ICPMRR.
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### Membru al echipei de cercetare

- Pn11. Contract nr.48-97-10(376)/1997; Proceduri neconvenționale în separarea compușilor chimici din medii polifazice; Beneficiar: MCT; Program Orizont 2000.
- Pn12. Contract nr. 48-97-14/1998 (727-CNCSU); Metode moderne de exprimare și calcul a eficienței transferului de masă la contactarea în trepte; Beneficiar: CNCSU.
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3.05.2017

Prof. dr. ing. Anicuta Stoica

