

UNIVERSITATEA POLITEHNICA DIN BUCURESTI

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA CONCURS OBTINEREA ATESTATULUI DE ABILITARE

CANDIDATA: prof. dr. ing. STOICA ANICUTA

Depart. de Inginerie Chimica si Biochimica Fac. de Chimie Aplicată și Știința Materialelor

Condiții	Îndeplinire condiții	
A. Doctor	Diploma de Doctor în domeniul Inginerie chimică, Nr. 447 din 19.03.1998, emisă de Universitatea POLITEHNICA din București	
B. Îndeplinirea standardelor minime naționale conform OMECTS nr. 6560/20.12.2012; MO, I, 890 si 890bis/27.12.2012	Standarde îndeplinite, conform Comisiei CNATDCU Nr. 8 , Inginerie Chimică, inginerie medicală, știința materialelor și nanomaterialelor Anexate: Fișele de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate	
Condiții minimale [Punctaj]	Minim prevăzut	Realizat
A1. Număr total de articole în reviste ISI, NT	NT ≥ 25	58
A2. Număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență), NP	NP ≥ 12	23
A3. Factor de impact cumulat, FIC	FIC ≥ 16	60,179
A4. Număr total de citări (din baza SCOPUS)	≥ 40	357
Alte condiții minimale prevăzute de UPB		
Granturi câștigate prin competiție (director/responsabil) sau membru în echipa de cercetare	Da	23 granturi (10 ca director sau responsabil/ 13 ca membru al echipei de cercetare)
Cărți de specialitate	1	6
C. Atestarea studiilor (diploma + Foi Matricole) si a altor realizari profesionale	Diploma de Inginer , specializarea Tehnologia compușilor macromoleculari, Nr 1799 din 18.1.1984, emisă de Institutul Politehnic București-Facultatea de Tehnologie Chimică-cu foaia matricolă	

Subsemnata **STOICA ANICUȚA**, Departamentul de *Inginerie chimică și biochimică*, Facultatea de *Chimie Aplicată și Știința Materialelor*, candidată la obținerea atestatului de abilitare din Domeniul de Studii Universitare Inginerie Chimica, arondat Comisiei de Specialitate CNATDCU [OMECTS 6573/2012] Nr. 8, *Inginerie chimică, Inginerie medicală, Știința Materialelor și Nanomateriale*, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale prevăzute de Metodologia UPB 2013 pentru înscrierea la concurs [Secțiunea II.3] și OMECTS 6560/2012 [C + P], în momentul înscrierii la concurs și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la această dată.

Candidat,
Prof. dr. ing. Anicuța Stoica

Data
3.05.2017

Anicuța

**ANEXĂ LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE
PREZENTARE LA CONCURS
OBTINEREA ATESTATULUI DE ABILITARE**

1. LUCRARI PUBLICATE IN REVISTE COTATE ISI (NT)

1. Isopencu G., Marfa M., Jipa I., 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); WOS:000397043100029.
2. 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**. ISSN: 0378-5173
DOI: 10.1016/j.ijpharm.2015.11.053 (FI=3,994); WOS: 000380754500010.
3. 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). ISSN: 1022-1360; DOI: 10.1002/masy.201400177; WOS: 000377290000015.
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**. ISSN: 0141-8130;
DOI: 10.1016/j.ijbiomac.2016.06.070 (FI=3,138); WOS: 000382339200125.
5. Busuioc C., Stroescu M., **Stoica-Guzun A.**, Voicu G., Jinga S.-I., Fabrication of 3D calcium phosphates based scaffolds using bacterial cellulose as template, *Ceramics International*, **42(14)**, (2016), **15449–15458**. ISSN: 0272-8842;
DOI: 10.1016/j.ceramint.2016.06.196; (FI=2,758); WOS: 000382269800041.
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**. ISSN: 0017-9310; DOI: 10.1016/j.ijheatmasstransfer.2016.07.079; (FI=2,857); WOS: 000384777800045.
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**; ISSN: 0268-005X;
DOI: 10.1016/j.foodhyd.2015.02.008; (FI=3,858); WOS: 000352697700008.
8. Stroescu M, **Stoica. A.**, Parvulescu O. C., Avram M., Dobre T., A shrinking core model for seeds oil extraction with particularization to Camelina oil separation, *Chemical Engineering Research and Design*, **97**, (2015), **1–8**; ISSN: 0263-8762;
DOI: 10.1016/j.cherd.2015.03.007; (FI=2,525); WOS: 000355034200001.
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); WOS: 000350270800016.
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); WOS: 000352756300028.

11. **Stoica A.**, Dobre T., Stroescu M., Sturzoiu A., Parvulescu O., From laboratory to scale-up by modelling in two cases of β -carotene extraction from; vegetable products, *Food and Bioproducts Processing*, **94**, (2015), **218–228**; ISSN: 0960-3085; DOI: 10.1016/j.fbp.2014.02.005; (FI=2,474); WOS: 000354140500022.
12. Dobre T., Pârvolescu O. C., Iavorschi G., Stroescu M., **Stoica A.**, Volatile Organic Compounds Removal from Gas Streams by Adsorption onto Activated Carbon, *Ind. Eng. Chem. Res.*, **53(9)**, (2014), **3622-3628**; ISSN: 0888-5885; DOI: 10.1021/ie402504u; (FI=2,567); WOS: 000332684500021.
13. Pavaloiu R. D., **Stoica A.**, Stroescu M., Dobre T., Controlled release of amoxicillin from bacterial cellulose membranes, *Central European Journal of Chemistry*, **12(9)**, (2014), **962-967**; ISSN: 1895-1066; (FI=1,22); DOI: 10.2478/s11532-014-0541-3; WOS: 000335552800008.
14. Pavaloiu R. D., **Stoica-Guzun A.**, Stroescu M., Jinga S. I., Dobre T. Composite films of poly(vinyl alcohol)–chitosan–bacterial cellulose for drug controlled release, *International Journal of Biological Macromolecules*, **68**, (2014), **117–124**; ISSN: 0141-8130; DOI: 10.1016/j.ijbiomac.2014.04.040; (FI=3,138); WOS: 000338414600020.
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16. **Stoica-Guzun A.**, Stroescu M., Jinga S. I., Voicu G., Grumezescu A. M., Holban A. M., Plackett–Burman experimental design for bacterial cellulose–silica composites synthesis, *Materials Science and Engineering C*, **42**, (2014), **280–288**; ISSN: 0928-4931; DOI: 10.1016/j.msec.2014.05.03; (FI=3,42); WOS: 000340687400037.
17. Pavaloiu R.D., **Stoica A.**, Stroescu M., Dobre T., Use of bacterial cellulose for reinforcement agent and as coating agent in drug release applications, *Revista de chimie*, **65(7)**, (2014), **852-854**. ISSN: 0034-7752; (FI=0,956); WOS: 000345545600023.
18. Jinga S. I., Isopencu G., **Stoica-Guzun A.**, Stroescu M., Ferdes M., Ohreac B., Silver green synthesis on bacterial cellulose membranes using tannic acid, *Digest Journal of Nanomaterials and Biostructures*, **8(4)**, (2013), **1711–1717**; ISSN: 1842-3582; (FI=0,756); WOS: 000327818000035.
19. **Stoica-Guzun A.**, Stroescu M., Jinga S. I., Jipa I. M., Dobre T., Microwave assisted synthesis of bacterial cellulose- calcium carbonate composites, *Industrial Crops and Products*, **50**, (2013), **414-422**; ISSN: 0926-6690; DOI: 10.1016/j.indcrop.2013.07.063; (FI=3,449); WOS: 000326903600055.
20. Dobre M. L., **Stoica-Guzun A.**, Antimicrobial Ag-Polyvinyl Alcohol-Bacterial Cellulose Composite Films, *Journal of Biobased Materials and Bioenergy*, **7**, (2013), **157-162**; ISSN: 1556-6560; DOI: 10.1166/jbmb.2013.1272; (FI=0,740); WOS: 000317531600020.
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22. Stroescu M., **Stoica-Guzun A.**, Ghergu S., Chira N., Jipa I., Optimization of fatty acids extraction from Portulcaoleracea seed using response surface methodology, *Industrial Crops and Products*, **43**, (2013), **405-411**; ISSN: 0926-6690; DOI: 10.1016/j.indcrop.2012.07.051; (FI=3,449); WOS: 000311865000062.

23. Stroescu M., **Stoica-Guzun A.**, Jipa I. M., Vanillin release from poly(vinyl alcohol)-bacterial cellulose mono and multilayer films, *Journal of Food Engineering*, **114(2)**, (2013) **153-157**; ISSN: 0260-8774; DOI:10.1016/j.jfoodeng.2012.08.023; (FI=3,199); WOS: 000311657900002.
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26. Dobre L. M., **Stoica-Guzun A.**, Stroescu M., Jipa I. M., Dobre T., Ferdes M., Ciumpiliac S., Modelling of sorbic acid diffusion through bacterial cellulose-based antimicrobial films, *Chemical Papers*, **66(2)**, (2012), **144-151**; ISSN: 0366-6352; DOI: 10.2478/s11696-011-0086-2; (FI=1,326); WOS: 000297363800009.
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28. Kibédi-Szabó C. Z., Stroescu M., **Stoica-Guzun A.**, Jinga S. I., Szilveszter S., Jipa I., Dobre T., Biodegradation Behavior of Composite Films with Poly (Vinyl Alcohol) Matrix, *Journal of Polymers and the Environment*, **20(2)**, (2012), **422-430**; ISSN: 1566-2543; DOI: 10.1007/s10924-011-0391-4; (FI=1,969); WOS: 000304147400019.
29. Jipa I. M., Dobre L., Stroescu M., **Stoica-Guzun A.**, Jinga S., Dobre T., Preparation and characterization of bacterial cellulose-poly(vinyl alcohol) films with antimicrobial properties, *Materials Letters*, **66(1)**, (2012), **125-127**; ISSN:0167-577X; DOI: 10.1016/j.matlet.2011.08.047; (FI=2,437); WOS: 000297660300037.
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37. **Stoica-Guzun A.**, Jecu L., Gheorghe A., Raut I., Stroescu M., Ghiurea M., Danila M., Jipa I., Fruth V., Biodegradation of Poly(vinyl alcohol) and Bacterial Cellulose Composites by *Aspergillus niger*, *Journal of Polymers and the Environment*, **19(1)**, (2011), **69-79**; ISSN: 1566-2543; DOI: 10.1007/s10924-010-0257-1; (FI=1,969); WOS: 000289801700007.
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46. **Guzun-Stoica A.**, Stroescu M., Tache F., Zaharescu T., Grosu E., Effect of electron beam irradiation on bacterial cellulose membranes used as transdermal drug delivery systems, *Nuclear Instruments and Methods in Physical Research B*, **265(1)**, (2007), **434-438**; ISSN: 0168-583X; DOI: 10.1016/j.nimb.2007.09.036 (FI=1,389); WOS: 000252025000084.

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48. **Guzun-Stoica A.**, Gheorghe A., Jecu L., Stroescu M., Dobre T., Biosorption of heavy metals ions by *Bacillus licheniformis* and *Penicillium* species, *Revista de chimie*, **55(7)**, (2004), **558-560**; ISSN: 0034-7752; (FI=0,956); WOS: 000223160500020.
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51. **Guzun-Stoica A.**, Kurzeluk M., Floarea O., Experimental study of Marangoni effect in a liquid-liquid system, *Chemical Engineering Science*, **55 (18)**, (2000), **3813-3816**; DOI: 10.1016/S0009-2509(00)00049-X; (FI=2,75);ISSN: 0009-2509; Accession Number: WOS:0000879993900019.
52. Stroescu M., **Guzun-Stoica A.**, Floarea O., Calculation of the sulphur differential extraction from volcano ores, *Revista de chimie*, **51(2)**, (2000), **127-131**; ISSN: 0034-7752; (FI=0,956); WOS: 000086319500006.
53. Dobre T., **Guzun-Stoica A.**, Floarea O., Reactive extraction of phenols using sulfuric acid salts of trioctylamine, *Chemical Engineering Science*, **54**, (1999), **1559-1563**; ISSN: 0009-2509; DOI: 10.1016/S0009-2509(99)00070-6; (FI=2,75); WOS: 000080032500040.
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55. **Guzun-Stoica A.**, Juncu Ghe., Floarea O., Batch extraction of phenol with liquid surfactant membranes, *Revue Roumaine de Chimie*, **43(2)**, (1998), **171-179**; ISSN:0035-3930; (FI=0,250); WOS:000074103700016.
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ANEXĂ LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE
PREZENTARE LA CONCURS
OBTINEREA ATESTATULUI DE ABILITARE

2. LUCRĂRI PUBLICATE ÎN REVISTE ISI CA AUTOR PRINCIPAL (NP)

1. **Guzun- Stoica A.**, Dinculescu D., Instabilități hidrodinamice la interfața nitrobenzen-apă. Experiment, *Revista de Chimie*, **46(2)**, (1995), **139-142**; ISSN 0034-7752; (FI=0,956).
2. **Guzun-Stoica A.**, Albuiescu C., Juncu Ghe., Floarea O., Extraction of urea with liquid surfactant membranes in a batch system, *Chemical Engineering Science*, **51**, (1996), **4745-4747**; DOI: 10.1016/0009-2509(96)00319-3; (FI=2,75).
3. **Guzun-Stoica A.**, Oltu O., Petrescu B., Pop A., Potențostat controlat de calculator pentru studiul interfețelor lichid-lichid, *Revista de Chimie*, **47(4)**, (1996), **369-373**; ISSN 0034-7752; (FI=0,956).
4. **Guzun-Stoica A.**, Juncu Ghe., Floarea O., Batch extraction of phenol with liquid surfactant membranes, *Revue Roumaine de Chimie*, **43(2)**, (1998), **171-179**; ISSN-0035-3930; (FI=0,250).
5. **Stoica-Guzun A.**, Juncu Ghe., Floarea O., Batch extraction of citric acid with liquid surfactant membranes, *Chemical Engineering and Technology*, **22(1)**, (1999), **65-69**; DOI: 10.1002/(SICI)1521-4125(199901)22:1<65::AID-CEAT65>3.0.CO;2-9; (FI=2,385).
6. **Guzun-Stoica A.**, Kurzeluk M., Floarea O., Experimental study of Marangoni effect in a liquid-liquid system, *Chemical Engineering Science*, **55(18)**, (2000), **3813-3816**; DOI: 10.1016/S0009-2509(00)00049-X; (FI=2,75).
7. **Guzun-Stoica A.**, Stroescu M., Isopescu R., Albuiescu C., Gheorghe A., Recuperarea ureei din soluții apoase cu membrane emulsionate lichide, *Revista de chimie*, **51(11)**, (2000), **880-885**; ISSN 0034-7752; (FI=0,956).
8. **Guzun-Stoica A.**, Gheorghe A., Jecu L., Stroescu M., Dobre T., Biosorption of heavy metals ions by *Bacillus licheniformis* and *Penicillium* species, *Revista de chimie*, **55(7)**, (2004), **558-560**; ISSN 0034-7752; (FI=0,956).
9. **Guzun-Stoica A.**, Stroescu M., Tache F., Zaharescu T., Grosu E., Effect of electron beam irradiation on bacterial cellulose membranes used as transdermal drug delivery systems, *Nuclear Instruments and Methods in Physical ResearchB*, **265(1)**, (2007), **434-438**; DOI: 10.1016/j.nimb.2007.09.036; (FI=1,389).
10. **Stoica-Guzun A.**, Jecu L., Gheorghe A., Raut I., Stroescu M., Ghiurea M., Danila M., Jipa I., Fruth V., Biodegradation of Poly(vinyl alcohol) and Bacterial Cellulose Composites by *Aspergillus niger*, *Journal of Polymers and the Environment*, **19(1)**, (2011), **69-79**; DOI: 10.1007/s10924-010-0257-1; (FI=1,969).
11. **Stoica-Guzun A.**, Stroescu M., Jinga S., Jipa I., Dobre T., Dobre L., Ultrasound influence upon calcium carbonate precipitation on bacterial cellulose membranes, *Ultrasonics Sonochemistry*, **19** (2012), **909-915**; DOI: 10.1016/j.ultsonch.2011.12.002; (FI=4,556).
12. Stroescu M., **Stoica-Guzun A***, Jinga S. I., Dobre T., Jipa I. M., Dobre L. M., Influence of sodium dodecyl sulfate and cetyl trimethylammonium bromide upon calcium carbonate

- precipitation on bacterial cellulose, *Korean Journal of Chemical Engineering*, **29(9)**, (2012), **1216-1223**; DOI: 10.1007/s11814-011-0290-3; (FI=1,560).
13. Jipa I. M., Stroescu M., **Stoica-Guzun A.***, Dobre T., Jinga S., Zaharescu T., Effect of gamma irradiation on biopolymer composite films of poly(vinyl alcohol) and bacterial cellulose, *Nuclear Instruments and Methods in Physical Research B*, **278**, (2012), **82-87**, DOI: 10.1016/j.nimb.2012.02.024; (FI=1,389).
 14. Jipa I. M., **Stoica-Guzun A.***, Stroescu M., Controlled release of sorbic acid from bacterial cellulose based mono and multilayer antimicrobial films, *LWT-Food Science and Technology*, **47(2)**, (2012), **400-406**; DOI: 10.1016/j.ltw.2012.01.039; (FI=2,711).
 15. Stroescu M., **Stoica-Guzun A.***, Ghergu S., Chira N., Jipa I., Optimization of fatty acids extraction from *Portulca oleracea* seed using response surface methodology, *Industrial Crops and Products* **43**, (2013), **405-411**; DOI: 10.1016/j.indcrop.2012.07.051; (FI=3,449).
 16. **Stoica-Guzun A.**, Stroescu M., Jipa I., Dobre L., Zaharescu T., Effect of γ irradiation on poly(vinylalcohol) and bacterial cellulose composites used as packaging materials, *Radiation Physics and Chemistry*, **84**, (2013), **200-204**; DOI: 10.1016/j.radphyschem.2012.06.017 17; (FI=1,207).
 17. Dobre M. L., **Stoica-Guzun A.***, Antimicrobial Ag-Polyvinyl Alcohol-Bacterial Cellulose Composite Films, *Journal of Biobased Materials and Bioenergy*, **7**, (2013), **157-162**; DOI: 10.1166/jbmb.2013.1272; (FI=0,740).
 18. **Stoica-Guzun A.**, Stroescu M., Jinga S. I., Jipa I. M., Dobre T., Microwave assisted synthesis of bacterial cellulose- calcium carbonate composites, *Industrial Crops and Products*, **50**, (2013), 414-422; DOI: 10.1016/j.indcrop.2013.07.063; (FI=3,449).
 19. **Stoica-Guzun A.**, Stroescu M., Jinga S. I., Voicu G., Grumezescu A. M., Holban A. M., Plackett–Burman experimental design for bacterial cellulose–silica composites synthesis, *Materials Science and Engineering C*, **42**, (2014), **280–288**; DOI: 10.1016/j.msec.2014.05.03; (FI=3,42).
 20. **Stoica A.**, Dobre T., Stroescu M., Sturzoiu A., Parvulescu O., From laboratory to scale-up by modelling in two cases of β -carotene extraction from vegetable products, *Food and Bioproducts Processing*, **94**, (2015), **218–228**; DOI: 10.1016/j.fbp.2014.02.005; (FI=2,474).
 21. 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).
 22. **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**. dx.doi.org/10.1016/j.ijbiomac.2016.06.070 (FI=3.138).
 23. Juncu Ghe., **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).

Observatie: * Autor pentru corespondență

**ANEXĂ LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE
PREZENTARE LA CONCURS
OBTINEREA ATESTATULUI DE ABILITARE**

3. FIȘA DE CALCUL PENTRU FACTORUL DE IMPACT CUMULAT (FIC)

Nr.	Referința bibliografică	FI	Ni	Prim Aut.	Fi/Ni
1.	Guzun-Stoica A. , Albulescu C., Juncu Gh., Floarea O., Extraction of urea with liquid surfactant membranes in a batch system, <i>Chemical Engineering Science</i> , 51 , (1996), 4745-4747 ; ISSN: 0009-2509; DOI: 10.1016/0009-2509(96)00319-3.	2,75	4	da	2,750
2.	Dobre T., Guzun-Stoica A. , Floarea O., Reactive extraction of phenols using sulfuric acid salts of trioctylamine, <i>Chemical Engineering Science</i> , 54 , (1999), 1559-1563 ; DOI: 10.1016/S0009-2509(99)00070-6.	2,75	3	-	0,916
3.	Guzun-Stoica A. , Kurzeluk M., Floarea O., Experimental study of Marangoni effect in a liquid-liquid system, <i>Chemical Engineering Science</i> , 55(18) , (2000), 3813-3816 ; DOI: 10.1016/S0009-2509(00)00049-X.	2,75	3	da	2,75
4.	Stoica- Guzun A. , Juncu Ghe., Floarea O., Batch extraction of citric acid with liquid surfactant membranes, <i>Chemical Engineering and Technology</i> , 22(1) , (1999), 65-69 ; DOI: 10.1002/(SICI)1521-4125(199901)22:1<65: AID-CEAT6 > 3.0.CO; 2-9.	2,385	3	da	2,385
5.	Dinculescu D., Guzun-Stoica A. , Dobre T., Floarea O., Experimental investigation of citric acid reactive extraction with solvent recycling, <i>Bioprocess and Biosystems Engineering</i> , 22(6) , (2000), 529-531 ; DOI: 10.1007/s004499900100.	1,901	4	-	0,475
6.	Guzun-Stoica A. , Stroescu M., Tache F., Zaharescu T., Grosu E., Effect of electron beam irradiation on bacterial cellulose membranes used as transdermal drug delivery systems; <i>Nuclear Instruments and Methods in Physical Research B</i> , 265(1) , (2007), 434-438 ; DOI: 10.1016/j.nimb.2007.09.036.	1,389	5	da	1,389
7.	Dobre T., Parvulescu O. C., Stoica A. , Iavorschi G., Characterization of cooling systems based on heat pipe principle to control operation temperature of high-tech electronic components; <i>Applied Thermal Engineering</i> , 30(16) , (2010), 2435-2441 ; ISSN: 1359-4311; DOI: 10.1016/j.applthermaleng.2010.06.014.	3,043	4	-	0,760
8.	Stoica-Guzun A. , Jecu L., Gheorghe A., Raut I., Stroescu M., Ghiurea M., Danila M., Jipa I., Fruth V., Biodegradation of Poly(vinyl alcohol) and Bacterial Cellulose Composites by <i>Aspergillus niger</i> , <i>Journal of Polymers and the Environment</i> , 19(1) , (2011), 69-79 ; DOI: 10.1007/s10924-010-0257-1.	1,969	9	da	1,969
9.	Dobre T., Parvulescu O. C., Sanchez-Marcano J., Stoica A. , Stroescu M., Iavorschi G., Characterization of gas permeation through stretched polyisoprene membranes, <i>Separation and Purification Technology</i> , 82 , (2011) 202-209 ; DOI: 10.1016/j.seppur.2011.09.019.	3,299	6	-	0,549
10.	Jipa I. M., Dobre L., Stroescu M., Stoica-Guzun A. , Jinga S., Dobre T., Preparation and characterization of bacterial cellulose-poly(vinyl alcohol) films with antimicrobial properties, <i>Materials Letters</i> , 66(1) , (2012), 125-127 ;	2,437	6	-	0,406

	DOI: 10.1016/j.matlet.2011.08.047.				
11.	<u>Kibédi-Szabó C. Z., Stroescu M., Stoica-Guzun A., Jinga S.I., Szilveszter S., Jipa I., Dobre T.</u> , Biodegradation Behavior of Composite Films with Poly (Vinyl Alcohol) Matrix, <i>Journal of Polymers and the Environment</i> , 20(2) , (2012), 422-430; DOI: 10.1007/s10924-011-0391-4.	1,969	7	-	0,281
12.	Stoica-Guzun A. , Stroescu M., Jinga S., Jipa I., Dobre T., Dobre L., Ultrasound influence upon calcium carbonate precipitation on bacterial cellulose membranes, <i>Ultrasonics Sonochemistry</i> , 19(4) , (2012), 909-915; DOI: 10.1016/j.ultsonch.2011.12.002.	4,556	6	da	4,556
13.	Jipa I. M., Stoica-Guzun A. , Stroescu M., Controlled release of sorbic acid from bacterial cellulose based mono and multilayer antimicrobial films, <i>LWT-Food Science and Technology</i> , 47(2) , (2012), 400-406; DOI: 10.1016/j.ltw.2012.01.039.	2,711	3	-	0,903
14.	Jipa I. M., Stroescu M., Stoica-Guzun A.* , Dobre T., Jinga S., Zaharescu T., Effect of gamma irradiation on biopolymer composite films of poly(vinyl alcohol) and bacterial cellulose, <i>Nuclear Instruments and Methods in Physical Research B</i> , 278 , (2012), 82-87; DOI:10.1016/j.nimb.2012.02.024.	1,389	6	da	1,389
15.	Stroescu M., Stoica-Guzun A.* , Jinga S. I., Dobre T., Jipa I. M., Dobre L. M., Influence of sodium dodecyl sulfate and cetyl trimethylammonium bromide upon calcium carbonate precipitation on bacterial cellulose, <i>Korean Journal of Chemical Engineering</i> , 29(9) , (2012), 1216-1223; DOI: 10.1007/s11814-011-0290-3.	1,560	6	da	1,560
16.	Stoica-Guzun A. , Stroescu M., Jipa I., Dobre L., Zaharescu T., Effect of γ irradiation on poly (vinyl alcohol) and bacterial cellulose composites used as packaging materials, <i>Radiation Physics and Chemistry</i> , 84 , (2013), 200-204 DOI: 10.1016/j.radphyschem.2012.06.017.	1,207	5	da	1,207
17.	Stroescu M., Stoica-Guzun A.* , Ghergu S., Chira N., Jipa I., Optimization of fatty acids extraction from <i>Portulca oleracea</i> seed using response surface methodology, <i>Industrial Crops and Products</i> , 43 , (2013), 405-411; DOI: 10.1016/j.indcrop.2012.07.051.	3,449	5	da	3,449
18.	Stroescu M., Stoica-Guzun A. , Jipa I. M., Vanillin release from poly(vinyl alcohol)-bacterial cellulose mono and multilayer films, <i>Jornal of Food Engineering</i> , 114(2) , (2013) 153-157; DOI:10.1016/j.jfoodeng.2012.08.023.	3,199	3	-	1,106
19.	Dobre L.M., Stoica-Guzun A*. , Antimicrobial Ag-polyvinyl alcohol-bacterial cellulose composite films, <i>Journal of Biobased Materials and Bioenergy</i> , 7(1) , (2013), 157-162; DOI:10.1166/jbmb.2013.1272.	0,740	2	da	0,740
20.	Stoica-Guzun A. , Stroescu M., Jinga S. I., Jipa I. M., Dobre T., Microwave assisted synthesis of bacterial cellulose- calcium carbonate composites, <i>Industrial Crops and Products</i> , 50 , (2013), 414-422; DOI: 10.1016/j.indcrop.2013.07.063.	3,449	5	da	3,449
21.	Pavaloiu R. D., Stoica-Guzun A. , Stroescu M., Jinga S. I., DobreT., Composite films of poly(vinyl alcohol)-chitosan-bacterial cellulose for drug controlled release, <i>International Journal of Biological Macromolecules</i> , 68 , (2014), 117-124; DOI: 10.1016/j.ijbiomac.2014.04.040.	3,138	5	-	0,627
22.	Stoica Guzun A. , Stroescu M., Jinga S. I., Voicu G., Grumezescu A. M., Holban A. M., Plackett-Burman experimental design for bacterial cellulose-silica composites synthesis, <i>Materials Science</i>	3,42	6	da	3,420

	<i>and Engineering C</i> , 42 , (2014), 280–288; DOI: 10.1016/j.msec.2014.05.031.				
23.	Pavaloiu R. D., Stoica A. , Stroescu M., Dobre T., Controlled release of amoxicillin from bacterial cellulose membranes, <i>Central European Journal of Chemistry</i> , 12(9) , (2014), 962-967; DOI 10.2478/s11532-014-0541-3.	1,22	4	-	0,305
24.	Stoica A. , Dobre T., Stroescu M., Sturzoiu A., Parvulescu O., From laboratory to scale-up by modelling in two cases of β -carotene extraction from vegetable products, <i>Food and Bioproducts Processing</i> , 94 , (2015), 218–228; DOI: 10.1016/j.fbp.2014.02.005.	2,474	5	da	2,474
25.	Dobre T., Pârvolescu O. C., Iavorschi G., Stroescu M., Stoica A., Volatile Organic Compounds Removal from Gas Streams by Adsorption onto Activated Carbon, <i>Ind. Eng. Chem. Res.</i> , 53(9) , (2014), 3622-3628; DOI: 10.1021/ie402504u.	2,567	5	-	0,513
26.	Stroescu M, Stoica A. , Parvulescu O. C., Avram M., Dobre T., A shrinking core model for seeds oil extraction with particularization to Camelina oil separation, <i>Chemical Engineering Research and Design</i> , 97 , (2015), 1–8. dx.doi.org/10.1016/j.cherd.2015.03.007;	2,525	5	-	0,505
27.	Stroescu M., Stoica-Guzun A* , Isopencu G., Jinga S. I., Parvulescu O., Dobre T., Vasilescu M., Chitosan-vanillin composites with antimicrobial properties, <i>Food Hydrocolloids</i> , 48 , (2015), 62-71. DOI:10.1016/j.foodhyd.2015.02.008.	3,858	7	da	3,858
28.	Dobre T., Pârvolescu 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, <i>International Journal of Heat and Mass Transfer</i> , 103 , (2016), 478–485; DOI: 10.1016/j.ijheatmasstransfer.2016.07.079.	2,857	6	-	0,476
29.	Busuioc C., Stroescu M., Stoica-Guzun A. , Voicu G., Jinga S.-I., Fabrication of 3D calcium phosphates based scaffolds using bacterial cellulose as template, <i>Ceramics International</i> , 42(14) , (2016), 15449–15458; DOI: 10.1016/j.ceramint.2016.06.196.	2,758	5	-	0,551
30.	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, <i>International Journal of Biological Macromolecules</i> , 91 (2016), 1062-1072; DOI: 10.1016/j.ijbiomac.2016.06.070.	3,138	9	da	3,138
31.	Juncu G., Stoica-Guzun A* , Stroescu M., Isopencu G., Jinga S. I., Drug release kinetics from carboxymethylcellulose-bacterial cellulose composite films, <i>International Journal of Pharmaceutics</i> , 510(2) , (2016), 485-492; DOI: 10.1016/j.ijpharm.2015.11.053.	3,994	5	da	3,994
32.	Guzun-Stoica A. , Dinculescu D., Instabilități hidrodinamice la interfața nitrobenzen-apă. Experiment, <i>Revista de Chimie</i> , 46 (2) , (1995), 139-142; ISSN 0034-7752.	0,956	2	da	0,956
33.	Guzun-Stoica A. , Oltu O., Petrescu B., Pop A., Potențostat controlat de calculator pentru studiul interfețelor lichid-lichid, <i>Revista de Chimie</i> , 47(4) , (1996), 369-373; ISSN 0034-7752.	0,956	4	da	0,956
34.	Guzun-Stoica A. , Gheorghe A., Jecu L., Stroescu M., Dobre T., Biosorption of heavy metals ions by <i>Bacillus licheniformis</i> and <i>Penicillium species</i> , <i>Revista de chimie</i> , 55 (7) , (2004), 558-560; ISSN 0034-7752.	0,956	5	da	0,956
35.	Sturzoiu A., Stroescu M., Stoica-Guzun A. , Dobre T., Empirical	0,956	4	-	0,239

	models applied for kinetics extraction of β -carotene from <i>Rosa canina</i> , <i>Revista de chimie</i> , 62(3) , (2011), 344-348 ; ISSN 0034-7752.				
36.	Pavaloiu R.D., Stoica A. , Stroescu M., Dobre T., Use of bacterial cellulose for reinforcement agent and as coating agent in drug release applications, <i>Revista de chimie</i> , 65(7) , (2014), 852-854 . ISSN 0034-7752.	0,956	4	-	0,239
37	Procedeu de obținere a unui produs bacterian cu activitate antifungică RO 126895/2010, OSIM, Romania (coauthor) (Process for preparing a bacterial product with antifungal effect on <i>Bacillus amylolichefaciens</i> culture by cultivating the microbial strain on glucose and mineral salts) RO 126895—A2; RO 126895—A8, RO 126895—B1; OSIM, Romania, Accecion Number: DIIDW: 2012D53527				1
38.	Bicomponent Composite With Polymeric Matrix for the Thermal Rehabilitation of Buildings, RO126952-A2; OSIM ROMANIA, Accecion Number: DIIDW: 2012D53495;				1
39.	Novel Component for Thermal Rehabilitation of Buildings involves a process for treating some granules of raw expanded polystyrene, RO126951-A2; OSIM ROMANIA, Accecion Number: DIIDW: 2012D53497				1
40.	Membranes and sorbents developed from the composite system cellulose/niocellulose-silica gel; RO127026-A2; Accecion Number: DIIDW: 2012D53498				1
	*Autor pentru corespondenta				
	FIC				60,179

**ANEXĂ LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE
PREZENTARE LA CONCURS
OBTINEREA ATESTATULUI DE ABILITARE**

4. LISTA DE CITĂRI DIN BAZA DE DATE SCOPUS

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.

1. Foresti, M.L., Vázquez, A., Boury, B., Applications of bacterial cellulose as precursor of carbon and composites with metal oxide, metal sulfide and metal nanoparticles: A review of recent advances, Carbohydrate Polymers, 157, (2017), 447-467.

2. Phomrak, S., Phisalaphong, M. Reinforcement of Natural Rubber with Bacterial Cellulose via a Latex Aqueous Microdispersion Process, Journal of Nanomaterials, (2017), art. no. 4739793.

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.

3. Mansur, A.A.P., de Carvalho, F.G., Mansur, R.L., Carvalho, S.M., de Oliveira, L.C., Mansur H.S. Carboxymethylcellulose/ZnCdS fluorescent quantum dot nanoconjugates for cancer cell bioimaging, International Journal of Biological Macromolecules, 96, (2017), 675-686.

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.

4. Yang, H.-J., Lee, J.-H., Lee, K.-Y., Song, K.B., Antimicrobial effect of an *Undaria pinnatifida* composite film containing vanillin against *Escherichia coli* and its application in the packaging of smoked chicken breast, International Journal of Food Science and Technology, 52(2), (2017), 398-403.

5. Lee, K.-Y., Lee, J.-H., Yang, H.-J., Song, K.B., Characterization of a starfish gelatin film containing vanillin and its application in the packaging of crab stick, Food Science and Biotechnology, 25(4), (2016), 1023-1028.

6. Liu, J., Meng, C.-G., Yan, Y.-H., Shan, Y.-N., Kan, J., Jin, C.-H., Protocatechuic acid grafted onto chitosan: Characterization and antioxidant activity, International Journal of Biological Macromolecules, 89, (2016), 518-526.

7. Cai, B., Zou, Q., Zuo, Y., Li, L., Yang, B., Li, Y., Fabrication and cell viability of injectable n-HA/chitosan composite microspheres for bone tissue engineering, RSC Advances, 6(89), (2016), 85735-85744.

8. Wu, M., Long, Z., Xiao, H., Dong, C., Recent research progress on preparation and application of N, N, N-trimethyl chitosan, Carbohydrate Research, 434, (2016), 27-32.

9. Busuioc, L.T., Simonescu, C.M., Patescu, R.-E., Onose, C., Melinte, I., Capatina, C., Popovici, R.A., Cristea, T., The kinetic and modeling study of zinc sorption onto chitosan-glutaraldehyde beads, Revista de Chimie, 66(11), (2015), 1728-1732.

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Pavaloiu, R.-D., Stoica-Guzun, A., Dobre, T., Swelling studies of composite hydrogels based on bacterial cellulose and gelatin UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77(1), (2015), 53-62.

12. Fijałkowski, K., Żywicka, A., Drozd, R., Junka, A.F., Peitler, D., Kordas, M., Konopacki, M., Szymczyk, P., Rakoczy, R., Increased water content in bacterial cellulose synthesized under rotating magnetic fields, Electromagnetic Biology and Medicine, 36 (2), (2017), 192-201.

13. Fijałkowski, K., Żywicka, A., Drozd, R., Kordas, M., Rakoczy, R., Effect of *Gluconacetobacter xylinus* cultivation conditions on the selected properties of bacterial cellulose, Polish Journal of Chemical

Technology, 18(4), (2016), 117-123.

14. Ullah, H., Santos, H.A., Khan, T. Applications of bacterial cellulose in food, cosmetics and drug delivery, *Cellulose*, 23(4), (2016), 2291-2314.

Stoica, A., Dobre, T., Stroescu, M., Sturzoiu, A., Pârvulescu, O.C., From laboratory to scale-up by modelling in two cases of β -carotene extraction from vegetable products, *Food and Bioproducts Processing*, 94, (2015), 218-228.

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Stroescu, M., Stoica, A., Parvulescu, O.C., Avram, M., Dobre, T., A shrinking core model for seeds oil extraction with particularization to Camelina oil separation, *Chemical Engineering Research and Design*, 97, (2015), 1-8.

16. Berti, M., Gesch, R., Eynck, C., Anderson, J., Cermak, S., Camelina uses, genetics, genomics, production, and management, *Industrial Crops and Products*, 94, (2016), 690-710.

Dobre, T., Pârvulescu, O.C., Iavorschi, G., Stroescu, M., Stoica, A., Volatile organic compounds removal from gas streams by adsorption onto activated carbon, *Industrial and Engineering Chemistry Research*, 53(9), (2014), 3622-3628.

17. Sui, H., An, P., Li, X., Cong, S., He, L., Removal and recovery of o-xylene by silica gel using vacuum swing adsorption, *Chemical Engineering Journal*, 316, (2017), 232-242.

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Data
3.05.2017

Candidat
Prof. Anicuța Stoica

Anicuța