

Curriculum vitae Europass

Informații personale

Nume/Prenume

Dobre Tanase



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Cetățenia

Romana

Data nașterii

05.02.1950 Tomsani/ Prahova

Sex

Bărbătesc

Locul de muncă actual

Universitatea Politehnica

Educație și formare profesională

Studii: Liceul teoretic Urlati, judetul Prahova (1969), Universitatea Politehnica Bucuresti, Facultatea Chimie Industriala (1974), Scoala de Ofiteri in rezerva Bucuresti (1975), Academia de Studii Economice Bucuresti, Facultatea de Cibernetica Economica si Statistica Matematica (1976-1980, studii nefinalizate), Universitatea Politehnica Bucuresti, Doctorat in Specializarea Inginerie Chimica (1985).

Specializari si recunoasteri profesionale: Tehnologia proiectarii si realizarii circuitelor imprimate (CII-Marseille, Franta (1976), Dynachem Ltd, Anglia (1978)) Proiectarea instalatiilor din industria chimica (IITPICH Bucuresti 1981-1982), Modelarea si simularea proceselor chimice (Profesor invitat ENSCh Montpellier (2001,2003,2005), Director de cercetare CNRS Franta (2001), Profesor invitat ENSCh Clermont Ferrand (2015), Profesor vizitator Institutul de Cataliza si Petrol Madrid (2009), Profesor asociat –Universitatea Ovidius Constanta Specializarea Tehnologia Petrolului (2009 -2014)).

Posesie limbi straine

Limba	Intelegere	Vorbit	Scris
Franceza	Foarte bine	Bine	Bine
Engleza	Bine	Bine	Bine
Rusa	Bine	Satisfacator	Aproape satisfacator

Experienta profesională

1974-1978 Inginer chimist Intreprinderea de Calculatoare Electronice ICE Felix Bucuresti (repartitie guvernamentala), 1979-1986 Asistent specializarea inginerie chimica Universitatea Politehnica Bucuresti, 1987-1990 Sef lucrari specializarea inginerie chimica Universitatea Politehnica Bucuresti, 1991-1996 Conferentiar specializarea inginerie chimica Universitatea Politehnica Bucuresti, 1997-2020 (prezent) Profesor specializarea inginerie chimica Universitatea Politehnica Bucuresti. Toate functiile didactice au fost obtinute prin concurs.

Responsabilitati la locul de munca (2010-2020)

Activitati didactice (2020) la disciplinele: Bazele transferului de masa (an III licenta specializarea Ingineria si Informatica Proceselor Chimice , CASM,UPB), Biorafinarii si Tehnologii Conexa,CASM,UPB), Curgeri reale in sisteme multifazice (an I master Ingineria Proceselor Chimice, CASM, UPB), Intensificarea transferului de masa (an I master Ingineria Proceselor Chimice, CASM, UPB); ii) sef de colectiv: Colectivul Fenomene de Transfer din departamentul Inginerie Chimica si Biochimica, CASM, UPB; iii) Sef de laborator: Laboratorul Transfer de Masa din departamentul Inginerie Chimica si Biochimica, CASM, UPB; iv) Director de master: Masterul Ingineria Proceselor Chimice de la Facultatea Chimie Aplicata si Stiinta Materialelor, v) conducator de doctorat in domeniul Stiinte Tehnice, specializarea Inginerie Chimica, Scoala Doctorala CASM (15 candidati in stagiul in 2020).

Activitati stiintifice: i) Conducere lucrari de doctorat in domeniul Stiintelor Tehnice specializarea Inginerie Chimica (37 candiditi inscrisi, 19 teze sustinute, 15 candidati in stagiul), ii) proiecte de cercetare stiintifica la nivel national: BIOSPIM 2006-2010 (d.p), COMRETERM 2007-2011)(d.p), iii)

indrumare proiecte de licenta,dizertatie master (peste 50); iv) colaborare internationala

Domenii de interes in Stiintele Ingineresti

In domeniul Stiintelor Ingineresti activitatea fundamentala, exprimata prin realizari stiintifice de succes, s-a concretizat indeosebi in specializarea Inginerie Chimica. In cadrul acestei specializari directiile de cercetare, menținute permanent în atenție, se refera la :

- modelarea și simularea proceselor chimice si biochimice
- intensificarea transferului de masa si caldura prin utilaje de mare eficacitate;
- metode moderne de separare a compusilor chimici din sisteme complexe;
- studiul proceselor de transfer specifice fabricatiei unor componente si echipamente de uz electronice;
- metode matematice in ingineria chimica;
- ingineria depoluarii efluentilor industriali;
- interactiunea transferului de masa cu reactia chimică sau biochimică;
- sinteze de noi materiale cu micro si nanostructurare pentru aplicatii speciale de inginerie chimica.

Tot in domeniul Stiintelor Ingineresti este remarcabila promovarea interdisciplinaritatii intre domeniile Ingineria Chimica si Bioresurse-Biosinteze exprimata prin directiile:

- tehnologii pentru bioceluloza si compozitele sale cu aplicatii biomedicale si industriale;
- ingineria pirolizei materialelor vegetale.

Realizari profesionale importante (2010-2020)

A. Continuarea publicarii de manuale si tratate stiintifice specifice cercetarii, dezvoltarii tehnologice si instruirii in domeniul ingineriei chimice. Pe primul loc se situeaza tratatul *T.Dobre, J.M. Sanchez, Chemical Engineering Modelling Simulatin and Similitude* (547 pagini), publicat de editura Wiley VCH in anul 2007, in care, pe baze stiintifice moderne, se insista asupra rolului modelarii si simulării in ingineria chimica, insistand asupra metodologiei de dezvoltare si transpunere soft a modelelor bazate pe fenomene de transfer, pe abordari stochastice respectiv statistice respectiv pe similitudine si analiza dimensionala. Tratatul, ajuns in cele mai mari biblioteci cu carte de inginerie chimica din toata lumea, este inca la vanzare la editor ceia ce dovedeste ca el este cautat si apreciat. Tot in domeniul publicarii de manuale cu specific de inginerie chimica se mentioneaza si: i) Anicuta Stoica, Marta Stroescu, T. Dobre, *Operatii de transfer termic in industria alimentara*, Ed. Politehnica Press, 315 pag., Bucuresti, 2008, ii) Anicuta Stoica, Iuliana Jipa, Marta Stroescu, T. Dobre, *Proiectarea tehnologica a coloanelor de rectificare cu talere*, Ed. Printech, 290 pag., Bucuresti, 2010 si respectiv iii) Anicuta Stoica, Marta Stroescu, T.Dobre, *Probleme de transfer termic in industria alimentara*, Ed. Electra, 325 pag., Bucuresti, 2016

B. Promovarea unor directii noi de cercetare, de interes, nu doar la nivel national, nominalizate dupa cum urmeza: *B1*: introducerea in cercetarea de inginerie chimica din tara a separarilor cu ajutorul polimerilor impregnati moleculari ce a inceput cu proiectul CEEX *Utilizarea polimerilor impregnati molecular la separarea compusilor bioactivi din plante (BIOSPIM)*. Proiectul, derulat intre 2005 si 2007 cu partenerii ICECHIM Bucuresti si Plantavorel Patra Neamt, a avut multe consecinte intre care se mentioneaza: i) dezvoltarea la ICECHIM Bucuresti a unui colectiv de cercetare in problema sintezei si separarii cu polimeri impregnati moleculari; ii) promovarea, indeosebi in Universitatea Politehnica Bucuresti, de teze de doctorat privind caracterizarea ingineriasca a separarilor cu polimeri impregnati moleculari; iii) demonstrarea si promovarea in literatura stiintifica a faptului ca inversia de faza poate fi folosita in impregnarea moleculara a polimerilor; iv) publicarea pe aceasta tema a unui numar important de articole in reviste ISI, atat de cercetatorii de la ICECHIM Bucuresti cat si de profesori si doctoranzi de la Universitatea Politehnica Bucuresti; *B2*: particularizarea metodelor de cercetare specifice ingineriei chimice pentru sinteza, caracterizarea si analiza utilizarii practice a unor noi compozite pe baza de polistiren expandat cu aplicatii in izolarea termica a cladirilor. Deschiderea acestei aplicatii de cercetare in anul 2007, cu proiectul CEEX *Materiale compozite hibride pe baza de polistiren expandata pentru reabilitarea termica a cladirilor (COMRETERM)*, avand ca parteneri ICECHIM Bucuresti si INCERC Bucuresti, a condus la importante realizari stiintifice si aplicative mentionate dupa cum urmeaza: i) tehnologii pentru blocheti, placat si sapa cu comportari termoizolante puternice si densitate mica respectiv rezistenta mecanica caracteristica aplicatiei (3 brevete de inventie); ii) noi proceduri de estimare a conductivitatii termice si a adsortiei de apa bazate pe considerarea compozitiei initiale in pulberi si granulate a compozitului proiectat (4 comunicari la conferintele RICCCCE, 2 articole ISI), iii) transfer de cunosinte catre linia de microproductie de la INCERC SA Bucuresti; *B3*: particularizarea metodelor de cercetare specifice ingineriei chimice pentru sinteza, caracterizarea si analiza utilizarii practice a biocelulozei si compozitelor pe baza de bioceluloza, exprimata prin directiile: i) noi bioreactoare si conditii de exploatare a lor in sinteza biocelulozei (2 articole ISI, 1 teza de doctorat, 5 comunicari stiintifice, 1 brevet de inventie); ii) eliberare controlabila de substante active, inclusiv medicamente, din compozite biopolimerice pe baza de bioceluloza (1 teza de doctorat, 5 articole ISI, 4 comunicari stiintifice); iii) ambalaje alimentare active pe baza de bioceluloza și compozite biodegradabile hibride cu utilizări în procese de separare (1 teza de doctorat, 5 articole ISI, 3 comunicari stiintifice)

C. Continuarea dezvoltarii directiei de cercetare in ingineria chimica exprimata de promovarea

intensificarii transferului de masa si caldura ca metoda de control a vitezei de transfer de caldura si specie fizica in contactarea bifazica sau polifazica, cu exprimare concreta prin: i) caracterizarea schimbului de caldura cu ajutorul tuburilor termice cu si fara cuplare la supafete de transfer extinse pentru microdispozitive electronice (1 articol ISI, 2 comunicari stiintifice, 1 lucrare de laborator); ii) intensificarea transferului de oxigen in bioreactoarele aerobe prin intermediul vectorilor de oxigen pe baza de magnetita si compozit magnetita-bioceluloza (1 teza de doctorat, 1 articol ISI, 1 lucrare de laborator); iii) promovarea utilizarii campului de microunde si a celui ultrasonor in procese de extractie solid-lichid, inclusiv din medii vegetale (1 teza de doctorat, 5 articole ISI, 3 comunicari stiintifice)

D. Dezvoltarea de noi modele de caracterizare a dinamicii extractiei speciilor active din produse naturale cu mentionare speciala pentru modele cu granita variabila (gonflare) respectiv pentru cele ce urmeaza modelul miezului care se strange (1 teza de doctorat, peste 10 articole ISI)

E. Punerea in opera si dezvoltarea programului de instruire didactica in domeniul masterului Ingineria Proceselor Chimice prin sistemul de dubla diploma intre Universitatea Politehnica Bucuresti si Ecole Nationale Supérieure de Chimie din Clermont Ferrand

Activitatea de elaborare si publicare lucrari

Lucrari didactice si profesionale

5 manuale publicate la editura pentru carte stiintifica Matrix Rom (1996-2008)
4 manuale publicate la Politehnica Press, Printech Rom respectiv Electra Press (2010-2016)
2 manuale în format electronic (2005-2007)
1 tratat publicat de Wiley VCH (2007)

Lucrari tehnice

14 brevete de inventie din care 3 in domeniul fabricatiei circuitelor imprimate si 11 in domeniul aparate procese si tehnologii in ingineria chimica

Lucrari stiintifice

Teza de doctorat :Transfer de masa gaz-lichid in utilaje de mare eficacitate (1985)
Peste 128 articole stiintifice publicate in reviste cotate ISI
Peste 30 articole stiintifice in reviste BDI, nationale si internationale
Mai mult de 100 comunicari stiintifice cu publicare in proceedings ca lucrare sau rezumat

Contracte de cercetare stiintifica

Numar de contracte la care s-a participat : 44
Numar de contracte conduse ca responsabil (director) : 19

Apartenenta la asociatii profesionale

Societatea de Inginerie Chimică din România SICR (membru fondator 1995)
Federatia Europeana de Inginerie Chimica EFCE (1997)
Asociatia Managerilor Romani din Industrie AMIR (membru fondator 1996)

Alte mentiuni

Referent în specialitatea de Inginerie Chimica la Revista de Chimie, Materiale Plastice, Revue Roumaine de Chimie si UPB Scientific Bulletin Series C
Referent stiintific la Certex S.A (1993-1999) si Bioing S.A (1994-1998)
Responsabilitati în catedră si facultate: adjunct sef catedra din 1996 pana în 2004, membru în Consiliul Profesorat (2000-2008, 2012-2016) ;
Membru in grupul de organizare a manifestari RICCCE edițiile X (1997), XI (1999)
Responsabil organizare Simpozion International de Inginerie Chimica la manifestarile SICHEM 1998, SICHEM 2000, SICHEM 2014, SICHEM 2016, SICHEM 2018, SICHEM 2020
Evaluator în specialitatea Inginerie Chimică în programe Finantate de MEC prin ANSTI, CNCSIS
Evaluator inscris la Bruxelles pentru programe FP6 și FP7;
Referent pentru Elsevier Journals : Journal of Membrane Science, Carbohydrate Polymers, Arabian Journal of Chemistry, Chemical Engineering Journal, Journal of Food Engineering, Food Hydrocolloids, Industrial Crops and Products ,etc
Referent pentru Israel National Scientific Foundation , USA National Scientific Foundation
Responabil de program CEEX pentru primele 10 scoli de pregatire postdoctorală din Romania (2005-2007)
Membru tutular al Academiei de Stiinte Tehnice din Romania (2005)
Presedinte al Societatii de Inginerie Chimica din Romania (2010)

Anexe

Selectie lista de lucrari pentru perioada 2006-2019

4.09.2020

Prof.dr.ing. Dobre Tanase

Selectie de lucrari publicate in perioada 2006- 2019

Manuale, tratate, monografiile dupa 2006

1. T. Dobre., J. M. Sanchez., *Chemical Engineering Modelling and Simulation*, Wiley VCH, 540 pag., Weinham, 2007
2. Anicuta Stoica, Marta Stroescu, T. Dobre, Operatii de transfer termic in industria alimentara, Ed. Politehnica Press, 315 pag., 2008.
3. Anicuta Stoica, Iuliana Jipa, Marta Stroescu, T. Dobre, Proiectarea tehnologica a coloanelor de rectificare cu talere , Ed. Printech, 290 pag., Bucuresti, 2010.
4. Anicuta Stoica, Marta Stroescu, T.Dobre, Probleme de transfer termic in industria alimentara, Ed. Electra, 325 pag., Bucuresti, 2016
5. Dobre T., Stoica Anicuta, Intensificarea transferului de masa, Ed. Electra, 305 pag, Bucuresti, 2017

Articole in reviste si alte publicatii cu cotare ISI dupa 2005

1. Ahmed, S.B., Stoica-Guzun, A., Kamar, F.H., Dobre, T., Gudovan, D., Busuioc, C., Jipa, I. M., Ultrasound enhanced removal of lead from wastewater by hazelnut shell: an experimental design methodology, *International Journal of Environmental Science And Technology*, 16(3), 1249-1260, 2019, WOS:000460696700003.
2. Tirpan, D.R.C., Koncsag, C.I., Ciufu, A.G., Parvulescu, O.C., Dobre, T., Bioethanol Production From Dry Ulva Lactuca Algae By Alcoholic Fermentation, *Cell. Chem. Technol.*, 53(3-4), 341-346, 2019, ISSN:0576-9787, WOS:000472622200014.
3. Trica, B., Delattre, C., Gros, F., Ursu, A.V., Dobre, T., Djelveh, G., Michaud, P., Oancea, F., Extraction and Characterization of Alginate from an Edible Brown Seaweed (*Cystoseira barbata*) Harvested in the Romanian Black Sea, *Marine Drugs*, 17(7), 405, 2019, DOI:10.3390/md17070405, WOS:000478650600012.
4. Ciufu, A.G., Al Janabi, A.A.A., Pârvulescu, O.C., Dobre, T., Răducanu, C., Romanian Merino Wool Sorbent for Oil Spill Cleanup, *Rev. Chim. (Bucharest)*, 69 (9), 2575-2577, 2018, ISSN:0034-7752, WOS:000449628400057.
5. Dobre, T., Zicman, L.R., Pârvulescu, O.C., Neacșu, E., Ciobanu, C., Drăgolici, F.N., Species Removal from Aqueous Radioactive Waste by Deep-Bed Filtration, *Environ. Pollut.*, 241, 303-310, 2018, ISSN:0269-7491, WOS:000440390800032.
6. Dobre, T., Pârvulescu, O.C., Popescu, M., Stoica-Guzun, A., Cozea, A., Processing of Sea Buckthorn Fruits by Electro-osmosis under Pressure, *J. Food Eng.*, 219, 38-51, 2018, ISSN:0260-8774, WOS:000413879300006.
7. Zicman, L.R., Neacșu, E., Dragolici, F.N., Ciobanu, C., Dogaru, G., Pârvulescu, O.C., Dobre, T., Experimental and Modelling of Aqueous Radioactive Waste Treatment by Ultrafiltration, *Rev. Chim. (Bucharest)*, 69 (5), 1149-1151, 2018, ISSN:0034-7752,
8. Cioroiu, D.R., Pârvulescu, O.C., Dobre, T., Raducanu, C., Koncsag, C.I., Mocanu, A., Duteanu, N., Slow Pyrolysis of *Cystoseira Barbata* Brown Macroalgae, *Rev. Chim. (Bucharest)*, 69 (3), 553-556 , 2018, ISSN:0034-7752, WOS:000430946500004.
9. Trică, B., Pârvulescu, O.C., Dobre, T., Al Janabi, A.A.A., Răducanu, C., Patrichi, C., Modelling of Ethanol Fermentation Coupled with Product Recovery by Pervaporation, *Rev. Chim. (Bucharest)*, 68 (11), 2708-2715, 2017, ISSN:0034-7752
10. Cioroiu, D.R., Pârvulescu, O.C., Koncsag, C.I., Dobre, T., Răducanu, C., Rheological Characterization of Algal Suspensions for Bioethanol Processing, *Rev. Chim. (Bucharest)*, 68 (10), 2311-2316, 2017, ISSN:0034-7752
11. Al Janabi, A.A.A., Pârvulescu, O.C., Trică, B., Dobre, T., Effect of Process Factors on Pervaporation Dehydration of Isopropanol, *Rev. Chim. (Bucharest)*, 68 (6), 1400-1403, 2017, ISSN:0034-7752
12. Zicman L.R., Neacșu E., Done L., Dragolici F.N., Dobre T., Effect of process factors on the performances of reverse osmosis process in an aqueous radioactive waste treatment plant, *U.P.B. Sci. Bull. Series B*, 79 (4), 143-156, 2017, ISSN:1454-2331
13. Zicman L.R., Neacșu E., Done L., Tugulan G., Alexandru C., Nicu M., Ionascu L.F., Dogaru G., Dobre T., Investigation and modeling of fixed bed cesium sorption on nickel ferrocyanide, precipitated on silica gel, *Romanian Journal of Physics*, 3-4, A 806, 2017, ISSN: 1221-146X
14. Orbeci, C., Pârvulescu, O.C., Acceleanu, E., Dobre, T., Effects of Process Factors on Carbon Dioxide Reforming of Methane over Ni/SBA-15 Catalyst, *Rev. Chim. (Bucharest)*, 68 (10), 2325-2328, 2017, ISSN:0034-7752
15. Dobre T., Pârvulescu O.C., Jacquemet A., Ion V.A., Adsorption and Thermal Desorption of Volatile Organic Compounds in a Fixed Bed – Experimental and Modeling, *Chemical Engineering Communications* (2016), 203, 12, 1554-1561
16. Dobre T., Pârvulescu O.C., Stoica-Guzun A., Jipa I., Al Janabi A.A.A., Heat and mass transfer in fixed bed drying of non-deformable porous particles (2016), *International Journal of Heat and Mass Transfer*, 103, pp. 478-485
17. Ceatra L., Pârvulescu O. C., Rodríguez Ramos I., Dobre T., Preparation, Characterization, and Testing of a Carbon-Supported Catalyst Obtained by Slow Pyrolysis of Nickel Salt Impregnated Vegetal Material (2016), *Industrial and Engineering Chemistry Research*, 55 6, 1491-1502, 2016
18. Al Janabi A. A., Parvulescu O.C., Dobre T., Ion V.A., Pervaporation of aqueous ethanol solutions through pure and composite cellulose membranes (2016), *Revista de Chimie*, 67, 1, 150-156, 2016
19. Pârvulescu O.C., Ion V.A., Dobre T., Nitu S.G., The effect of process factors on n-hexane adsorption onto copper impregnated activated carbon (2016), *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 78, 2, 121-130, 2016
20. Dima O., Dobre T., Mathematical modeling and simulation of adsorption process in a fixed bed of molecularly imprinted polymeric pearls, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 78, 2, 143-154, 2016
21. Dima S.-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 (2016) *Macromolecular Symposia*, 359 (1), pp. 124-128, DOI: 10.1002/masy.201400177

- 22 Stroescu M., Stoica-Guzun A., Isopencu G., Jinga S.I., Parvulescu O., Dobre, T., Vasilescu M., Chitosan-vanillin composites with antimicrobial properties (2015) *Food Hydrocolloids*, 48, pp. 62-71, DOI: 10.1016/j.foodhyd.2015.02.008
- 23 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 (2015) *Chemical Engineering Research and Design*, 97, pp. 1-8, DOI: 10.1016/j.cherd.2015.03.007
- 24 Pavaloiu R.-D., Stoica-Guzun A., Dobre T., Swelling studies of composite hydrogels based on bacterial cellulose and gelatin (2015) *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 77 (1), pp. 53-62.
- 25 Dumitriu D., Dobre T., Effects of temperature and hypochlorite concentration on the rate of collagen dissolution (2015) *Journal of Endodontics*, 41 (6), pp. 903-906, DOI: 10.1016/j.joen.2014.12.020
- 26 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 (2015) *Food and Bioproducts Processing*, 94, pp. 218-228. DOI: 10.1016/j.fbp.2014.02.005
- 27 Ion V.A., Pârvulescu O.C., Dobre T., Duteanu N., Nitu S., Modelling of thermal desorption of volatile organic compounds from activated carbon (2015) *Revista de Chimie*, 66 (5), pp. 703-706.
- 28 Filcenco Olteanu A., Dobre T., Panturu E., Radu A.D., Akcil A., Experimental process analysis and mathematical modeling for selective gold leaching from slag through wet chlorination (2014) *Hydrometallurgy*, 144-145, pp.170-185, DOI: 10.1016/j.hydromet.2014.02.011
- 29 Dobre T., Pârvulescu O.C., Iavorschi G., Stroescu M., Stoica A., Volatile organic compounds removal from gas streams by adsorption onto activated carbon (2014) *Industrial and Engineering Chemistry Research*, 53 (9), pp. 3622-3628, DOI: 10.1021/ie402504u
- 30 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 (2014) *International Journal of Biological Macromolecules*, 68, pp. 117-124, DOI: 10.1016/j.ijbiomac.2014.04.040
- 31 Pavaloiu R. D., Stroescu M., Parvulescu O., Dobre T., Composite hydrogels of bacterial cellulose - Carboxymethyl cellulose for drug release (2014) *Revista de Chimie*, 65 (8), pp. 948-951
- 32 Dima S.O., Dobre T., Chetaru O., Nicolae C. A., Spataru C. I., Sarbu A., Molecularly imprinted poly(acrylonitrile-co-acrylic acid) matrix with sclareol (2014) *Polymer Engineering and Science*, 54 (7), pp. 1484-1494, DOI: 10.1002/pen.23689
- 33 Pavaloiu R.D., Stoica-Guzun A., Stroescu M., Dobre T., Use of bacterial cellulose as reinforcement agent and as coating agent in drug release applications (2014) *Revista de Chimie*, 65 (7), pp. 852-855
- 34 Ohreac B.S., Dobre T., Parvulescu O.C., Danciu T.D., Integration of ABE solvents fed-batch biosynthesis with their recovery by gas-stripping, (2014) *Revista de Chimie*, 65 (5), pp. 582-589.
- 35 Dobre T., Ohreac B.S., Parvulescu O.C., Danciu T.D., Effect of solid carriers on oxygen mass transfer in a stirred tank bioreactor (2014) *Revista de Chimie*, 65 (4), pp. 489-496
- 36 Botez A., Dobre T., Panturu E., Filcenco-Olteanu A., Uranium (VI) adsorption equilibrium on purolite resin SGA 600 U/3472 (2014), *Central European Journal of Chemistry*, 12 (7), pp. 769-773. DOI:10.2478/s11532-014-0506-6
- 37 Pavaloiu R.-D., Stoica A., Stroescu M., Dobre T., Controlled release of amoxicillin from bacterial cellulose membranes (2014), *Central European Journal of Chemistry*, 12 (9), pp. 962-967, DOI: 10.2478/s11532-014-0541-3
- 38 Pavaloiu R.-D., Dobre T., Hlevca C., Use of bacterial cellulose-glycerol-poly(vinyl alcohol) composites in drug release (2013), 2013 E-Health and Bioengineering Conference, EHB 2013, art. no. 6707312, DOI: 10.1109/EHB.2013.6707312
- 39 Crețu M., Dobre T., Teleaba V., Dragasanu L. Quantification by modeling and measurement of aircraft contribution to air pollution in airport area (2013), *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 75 (4), pp. 129-142
- 40 Pârvulescu, O.C., Dobre, T., Vasilescu-Mirea, R., Ceatră, L., Iavorschi, G., Statistic and kinetic models for wheat grains pyrolysis coupled with volatiles reforming (2013) *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 75 (4), pp. 53-68.
- 41 Stoica-Guzun, A., Stroescu, M., Jinga, S.I., Jipa, I.M., Dobre, T., Microwave assisted synthesis of bacterial cellulose-calcium carbonate composites (2013) *Industrial Crops and Products*, 50, pp. 414-422, DOI: 10.1016/j.indcrop.2013.07.063
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