

## LISTA DE LUCRĂRI

Conf. dr. ing. Oana Cristina PÂRVULESCU

### I. TEZĂ DE DOCTORAT

**T 1. Pârvulescu, O.C.**, „*Fenomene de transfer în procesul de schimb ionic*”, Universitatea POLITEHNICA din București, București, **2005** (îndrumător științific: prof. emerit dr. ing. Gheorghîța JINESCU).

### II. ARTICOLE PUBLICATE

**Articole publicate în reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale (BDI) specifice domeniului)**

➤ **Articole publicate în reviste cotate/indexate ISI Thomson Reuters**

**Vis 1.** 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*, Int. J. Heat Mass Transfer, 103, 478-485, 2016, ISSN:0017-9310, WOS:000384777800045 (FI=2,857).

**Vis 2.** Dobre, T., **Pârvulescu, O.C.\***, Jacquemet, A., Ion, V.A., *Adsorption and Thermal Desorption of Volatile Organic Compounds in a Fixed Bed – Experimental and Modelling*, Chem. Eng. Comun., 203 (12), 1554-1561, 2016, ISSN:0098-6445 (Print), ISSN:1563-5201 (Online), WOS:000387245100004 (FI=1,433).

**Vis 3.** **Pârvulescu, O.C.**, Gavrilă, A.I., Dobre, T., Ceatră, L., *Effects of Process Factors on Slow Pyrolysis of Sorghum Waste*, Rev. Chim. (Bucharest), 67 (11), 2254-2257, 2016, ISSN:0034-7752, WOS:000388361900027 (FI=0,956).

- Vis 4.** Ceatră, L., **Pârvulescu, O.C.\***, Rodriguez Ramos, I., Dobre, T., *Preparation, Characterization, and Testing of a Carbon-Supported Catalyst Obtained by Slow Pyrolysis of Nickel Salt Impregnated Vegetal Material*, Ind. Eng. Chem. Res., 55 (6), 1491-1502, 2016, ISSN:0888-5885, WOS:000370583700004 (FI=2,587).
- Vis 5.** Al Janabi, A.A.A., **Pârvulescu, O.C.\***, Dobre, T., Ion, V.A., *Pervaporation of Aqueous Ethanol Solutions through Pure and Composite Cellulose Membranes*, Rev. Chim. (Bucharest), 67 (1), 150-156, 2016, ISSN:0034-7752, WOS:000369524300034 (FI=0,956).
- Vis 6.** Al Janabi, A.A.A., Dobre, T., **Pârvulescu, O.C.\***, Danciu, T.D., Patrichi, C., *Integrated System of Fed Batch ABE Biosynthesis and Solvent Recovery by Pervaporation*, Rev. Chim. (Bucharest), 66 (12), 2070-2078, 2015, ISSN:0034-7752, WOS:000368437100033 (FI=0,956).
- Vis 7.** Stroescu, M., Stoica, A., **Pârvulescu, O.C.**, Avram, M., Dobre, T., *A Shrinking Core Model for Seeds Oil Extraction with Particularization to Camelina Oil Separation*, Chem. Eng. Res. Des., 97, 1-8, 2015, ISSN:0263-8762, WOS:000355034200001 (FI=2,525).
- Vis 8.** Ion, V.A., **Pârvulescu, O.C.\***, Dobre, T., *Volatile Organic Compounds Adsorption onto Neat and Hybrid Cellulose*, Appl. Surf. Sci., 335, 137-146, 2015, ISSN:0169-4332, WOS:000351614000020 (FI=3,150).
- Vis 9.** Ion, V.A., **Pârvulescu, O.C.\***, Dobre, T., Duțeanu, N., Nițu, S.G., *Modelling of Thermal Desorption of Volatile Organic Compounds from Activated Carbon*, Rev. Chim. (Bucharest), 66 (5), 703-706, 2015, ISSN:0034-7752, WOS:000355126000021 (FI=0,956).
- Vis 10.** Stroescu, M., Stoica-Guzun, A., Isopencu, G., Jinga, S.I., **Pârvulescu, O.C.**, Dobre, T., Vasilescu, M., *Chitosan-Vanillin Composites with Antimicrobial Properties*, Food Hydrocolloid, 48, 62-71, 2015, ISSN:0268-005X, WOS:000352697700008 (FI=3,858).
- Vis 11.** Stoica, A., Dobre, T., Stroescu, M., Sturzoiu, A., **Pârvulescu, O.C.**, *From Laboratory to Scale-up by Modelling in Two Cases of  $\beta$ -Carotene Extraction from Vegetable Products*, Food Bioprod. Process., 94, 218-228, ISSN:0960-3085, WOS:000354140500022 (FI=2,687).

- Vis 12.** Jinescu, C., Aruș, V.A., **Pârvulescu, O.C.\***, Nistor, I.D., *Modelling of Batch Lactic Acid Fermentation in the Presence of Anionic Clay*, Food Technol. Biotechnol., 52 (4), 448-458, 2014, ISSN:1330-9862, WOS:000347764200008 (FI=1,179).
- Vis 13.** Păvăloiu, R.D., Stroescu, M., **Pârvulescu, O.C.**, Dobre, T., *Composite Hydrogels of Bacterial Cellulose – Carboxymethyl Cellulose for Drug Release*, Rev. Chim. (Bucharest), 65 (8), 948-951, 2014, ISSN:0034-7752, WOS:000340867000018 (FI=0,956).
- Vis 14.** Sandu Ohreac, B., Dobre, T., **Pârvulescu, O.C.\***, Danciu, T.D., *Integration of ABE Solvents Fed-Batch Biosynthesis with Their Recovery by Gas-Stripping*, Rev. Chim. (Bucharest), 65 (5), 582-589, 2014, ISSN:0034-7752, WOS:000337011900017 (FI=0,956).
- Vis 15.** Dobre, T., Sandu Ohreac, B., **Pârvulescu, O.C.\***, Danciu, T.D., *Effect of Solid Carriers on Oxygen Mass Transfer in a Stirred Tank Bioreactor*, Rev. Chim. (Bucharest), 65 (4), 489-496, 2014, ISSN:0034-7752, WOS:000338605100022 (FI=0,956).
- Vis 16.** Dobre, T., **Pârvulescu, 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), 3622-3628, 2014, ISSN:0888-5885, WOS:000332684500021 (FI=2,587).
- Vis 17.** Dobre, T., **Pârvulescu, O.C.\***, Rodriguez Ramos, I., Ceatră, L., Stroescu, M., Stoica, A., Mirea, R., *Global Reaction Kinetics and Enthalpy in Slow Pyrolysis of Vegetal Materials*, Rev. Chim. (Bucharest), 63 (1), 54-59, 2012, ISSN:0034-7752, WOS:000300866700011 (FI=0,956).
- Vis 18.** Aruș, V.A., **Pârvulescu, O.C.**, Jinescu, C., Nistor, I.D., *Mathematical Modelling of Retention Process of Lactic Acid on Anionic Clay Particles Using Mechanical Mixing for Process Intensification*, Rev. Chim. (Bucharest), 62 (12), 1180-1184, 2011, ISSN:0034-7752, WOS:000298220300011 (FI=0,956).
- Vis 19.** Dobre, T., **Pârvulescu, O.C.\***, Sanchez-Marcano, J., Stoica, A., Stroescu, M., Iavorschi, G., *Characterization of Gas Permeation through Stretched Polyisoprene Membranes*, Sep. Purif. Technol., 82, 202-209, 2011, ISSN:1383-5866, WOS:000296831500025 (FI=3,299).

- Vis 20.** Pârvulescu, O.C.\* , Dobre, T., Ceatră, L., Iavorschi, G., *Characteristics of Corn Grains Pyrolysis in a Fixed Bed Reactor*, Rev. Chim. (Bucharest), 62 (1), 89-94, 2011, ISSN:0034-7752, WOS:000288339400017 (FI=0,956).
- Vis 21.** Dobre, T., Pârvulescu, O.C.\* , Stoica, A., Iavorschi, G., *Characterization of Cooling Systems based on Heat Pipe Principle to Control Operation Temperature of High-Tech Electronic Components*, Appl. Therm. Eng., 30 (16), 2435-2441, 2010, ISSN:1359-4311, WOS:000282400200021 (FI=3,043).
- Vis 22.** Dobre, T., Pârvulescu, 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, 1968-1992, 2010, ISSN:1542-6580, WOS:000280497700003 (FI=0,759).
- Vis 23.** Dobre, T., Pârvulescu, O.C.\* , Calotă, L., Jipa, I., *Modelling of Fixed Bed Multicomponent Ion Exchange*, Rev. Chim. (Bucharest), 61 (2), 213-217, 2010, ISSN:0034-7752, WOS:000276216200020 (FI=0,956).
- Vis 24.** Dobre, T., Pârvulescu, O.C.\* , Stoica, A., Stroescu, M., *Experimental Investigation and Modelling of Inulin and Glycyrrhizin Extraction*, Rev. Chim. (Bucharest), 61 (1), 82-86, 2010, ISSN:0034-7752, WOS:000275350200020 (FI=0,956).
- Vis 25.** Dobre, T., Stoica, A., Pârvulescu, O.C.\* , Stroescu, M., Iavorschi, G., *Factors Influence on Bacterial Cellulose Growth in Static Reactors*, Rev. Chim. (Bucharest), 59 (5), 191-195, 2008, ISSN: 0034-7752, WOS:000257684800023 (FI=0,956).
- Vis 26.** Dobre, T., Pârvulescu, O.C., Iavorschi, G., Dobrea, I., 2006, *Aspecte privind piroliza amestecurilor formate din deșeuri de anvelopeși ambalaje PET*, Rev. Chim. (Bucharest), 57 (7), 658-665, 2006, ISSN:0034-7752, WOS:000241770900018 (FI=0,956).
- Vis 27.** Jinescu, G., Vasilescu, P., Pârvulescu, O.C., *Hidrodinamica stratului fluidizat trifazic în aparate cu recirculare pneumatică externă*, Rev. Chim. (Bucharest), 55 (8), 619-627, 2004, ISSN:0034-7752, WOS:000224082300012 (FI=0,956).
- Vis 28.** Vasilescu, P., Pârvulescu, O.C., Jinescu, C., *Un model matematic al procesului de schimb ionic în strat fix*, Rev. Chim. (Bucharest), 49 (12), 829-836, 1998, ISSN:0034-7752, WOS:000081075100001 (FI=0,956).

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- Vis 29.** Pârvulescu, O.C., Al Janabi, A.A.A., Dobre, T., *Rheological Characterization of Cellulose and Cellulose/TEOS Solutions*, U.P.B. Sci. Bull. Series B, 78 (4), 121-130, 2016, ISSN:1454-2331.
- Vis 30.** Pârvulescu, O.C., Ion, V.A., Dobre, T., Nițu, S.G., *The Effect of Process Factors on n-Hexane Adsorption onto Copper Impregnated Activated Carbon*, U.P.B. Sci. Bull. Series B, 78 (2), 121-130, 2016, ISSN:1454-2331.
- Vis 31.** Cernat, M., Pârvulescu, O.C.\*, Dobre, T., Maior, I., *Optimization of Volatile Organic Compounds Removal by Packed-Bed Absorption*, Bulletin of Romanian Chemical Engineering Society, 2 (3), 2016, 13-28, ISSN:2360-4697.
- Vis 32.** Dobre, T., Pârvulescu, O.C.\*, Matei, D., *On the Convective Drying of Gypsum Boards*, Bulletin of Romanian Chemical Engineering Society, 2 (3), 2016, 29-40, ISSN:2360-4697.
- Vis 33.** Sandu Ohreac, B., Dobre, T., Pârvulescu, O.C., *Modelling and Optimization of Acetone-Butanol-Ethanol Fed-Batch Biosynthesis*, U.P.B. Sci. Bull. Series B, 76 (4), 45-58, 2014, ISSN:1454-2331.
- Vis 34.** Ion, V.A., Pârvulescu, O.C.\*, Dobre, T., *Gas-liquid Absorption of Volatile Organic Compounds from Gas Streams in a Packed-Bed Column: Modelling and Simulation*, Bulletin of Romanian Chemical Engineering Society, 2, 2014, 70-86, ISSN:2360-4697.
- Vis 35.** Pârvulescu, O.C., Dobre, T., Vasilescu-Mirea R., Ceatră, L., Iavorschi, G., 2013, *Statistic and kinetic models for wheat grains pyrolysis coupled with volatiles reforming*, U.P.B. Sci. Bull. Series B, 75 (4), 53-68, 2013, ISSN:1454-2331.
- Vis 36.** Dobre, T., Pârvulescu, O.C., Ceatră, L., Stroescu, M., Stoica, A., *Fixed Bed Pyrolysis of Untreated and Ni (II) Impregnated Corn Grains: Experiment and Modelling*, U.P.B. Sci. Bull. Series B, 74 (1), 143-158, 2012, ISSN:1454-2331.
- Vis 37.** Dobre, T., Pârvulescu, O.C., Iavorschi, G., Stroescu, M., Stoica, A., *Experimental Study of VOCs Adsorption onto Fixed Bed Activated Carbon*, Analele Universitatii din Oradea, Fascicula ECOTOXICOLOGIE, ZOOTEHNIE SI TEHNOLOGII DE INDUSTRIE ALIMENTARA, vol. VIII, an 9, 1241-1246, 2010, ISSN:1583-4301.

- Vis 38.** Dobre, T., **Pârvulescu, O.C.**, Iavorschi, G., Stoica, A., Stroescu, M., *Analysis of Sol Evolution in Sol-Gel Synthesis by Use of Rheological Measurements*, U.P.B. Sci. Bull. Series B, 71 (3), 55-64, 2009, ISSN:1454-2331.
- Vis 39.** Dobre, T., Calotă, L., **Pârvulescu, O.C.**, Iavorschi, G., *Use of Experimental Breakthrough Curves for Ion Exchange Process Optimization*, U.P.B. Sci. Bull. Series B, 68 (4), 13-26, 2006, ISSN:1454-2331.

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- Vis 1.** Iancu, P., Stroescu, M., Josceanu, A.M., Danciu, T.D., **Pârvulescu, O.C.**, Boscornea, C., Alexa, 2012, *How does e-Chemistry work?*, Chem. Eng. Trans. **29**, 1075-1080, ISBN:978-88-95608-20-4, ISSN:1974-9791.
- Vis 2.** **Pârvulescu, O.C.**, Dobre, T., Qin, J., Iavorschi, G., 2010, *VOCs Adsorption on Activated Carbon: Experiment and Modelling*, 19<sup>th</sup> International Congress of Chemical and Process Engineering (CHISA), Prague, Czech Republic, CD-ROM of Full Texts, 1-10, ISBN:978-80-02-02247-3.
- Vis 3.** Dobre, T., **Pârvulescu, O.C.**, Iavorschi, G., Sandu, I., 2006, *Some Aspects Regarding the Pyrolysis of Wheat Grains*, 17<sup>th</sup> International Congress of Chemical and Process Engineering (CHISA), Prague, Czech Republic, CD-ROM of Full Texts, 1-8, ISBN:80-86059-45-6.

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- Vi 1.** Dobre, T., Rodriguez Ramos, I., Guerrero-Ruiz, A., **Pârvulescu, O.C.**, Ceatră, L., 2011, *Preparation and Characterization of New Carbon-Supported Nickel Catalysts*, 17<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, Romania, Proceedings (on CD), S.4.73-S.4.82, Ed. Printech, ISBN:978-606-521-349-4.

- Vi 2.** Dobre, T., **Pârvulescu, O.C.**, Ceatră, L., Stroescu, M., Stoica, A., Iavorschi, G., 2011, *Process Parameters Estimation at the Vegetal Materials Pyrolysis (I): Global Kinetics*, 38<sup>th</sup> International Conference of Slovak Society of Chemical Engineering, Tatranske Matliare, Slovakia, Proceedings (on CD), 1321-1332, ISBN:978-80-227-2903-1.
- Vi 3.** Dobre, T., **Pârvulescu, O.C.**, Ceatră, L., Stroescu, M., Iavorschi, G., 2010, *Catalytic Effects at the Vegetal Materials Pyrolysis*, 6<sup>th</sup> European Meeting on Chemical Industry and Environment, Mechelen, Belgium, Proceedings, vol. 1, 605-615.
- Vi 4.** Dobre, T., Stroescu, M., **Pârvulescu, O.C.**, Stoica, A., Tache, F., Iavorschi, G., Ceatră, L., 2010, *Models to Estimate Thermal Conductivity of Multicomponent Bed Used as Insulating Composite Support*, 6<sup>th</sup> European Meeting on Chemical Industry and Environment, Mechelen, Belgium, Proceedings, vol. 2, 1305-1314.
- Vi 5.** Dobre, T., **Pârvulescu, O.C.**, Jipa, I., Dobre, L., Dumitrache, E., Iavorschi, G., 2010, *Process Variables Effect on Mixed Bed Ion Exchange Dynamics at Water Demineralization*, 19<sup>th</sup> International Congress of Chemical and Process Engineering (CHISA), Prague, Czech Republic, CD-ROM of Full Texts, 1-11, ISBN:978-80-02-02247-3.
- Vi 6.** Dobre, L., Stoica, A., Stroescu, M., Jinga, S., Ciumpiliac, S., Jipa, I., **Pârvulescu, O.C.**, Dobre, T., 2010, *Antimicrobial Packaging Material based on Bacterial Cellulose Membranes*, 19<sup>th</sup> International Congress of Chemical and Process Engineering (CHISA), Prague, Czech Republic, CD-ROM of Full Texts, 1-8, ISBN:978-80-02-02050-3.
- Vi 7.** Dobre, T., Stroescu, M., **Pârvulescu, O.C.**, Stoica, A., Moraru, M., Jipa, I., 2009, *The Effect of the Freezing-Thawing Cycles on the Water Sorption of Composites Used for Heat Loss Control*, 16<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, Romania, Proceedings (on CD), S4. P-04, S.IV.1-S.IV.7, Ed. Printech, ISBN:978-606-521-349-4.
- Vi 8.** Dobre, T., **Pârvulescu, O.C.**, Rogoveanu, I., Iavorschi, G., Stroescu, M., 2009, *Characteristic Aspects of Water Demineralization by Mixed Fixed Bed Ion Exchange*, 16<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, Romania, Proceedings (on CD), S4. P-05, S.IV.1-S.IV.12, Ed. Printech, ISBN:978-606-521-349-4.

- Vi 9.** Rivallin, M., Iavorschi, G., **Pârvulescu, O.C.**, Dobre, T., Stroescu, M., 2009, *Synthesis and Characterization of Cellulose Hybrid Membranes*, 16<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, Romania, Proceedings (on CD), S4. P-06, S.IV.1-IV.10, Ed. Printech, ISBN:978-606-521-349-4.
- Vi 10.** Dobre, T., **Pârvulescu, O.C.**, Calotă, L., Jipa, I., Stoica, A., 2009, *Model and Algorithm Concerning Parameters Estimation at Ion Exchange Demineralization*, 16<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, Romania, Proceedings (on CD), S4. O-07, S.IV.1-S.IV.13, Ed. Printech, ISBN:978-606-521-349-4.
- Vi 11.** Dobre, T., Stroescu, M., **Pârvulescu, O.C.**, Stoica, A., Mihalcea, M., 2009, *Thermal Conductivity of Multicomponent Granular Bed Used Composite Support for Heat Loss Control*, 16<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sinaia, Romania, Proceedings (on CD), S4. O-09, S.IV.1-S.IV.10, Ed. Printech, ISBN:978-606-521-349-4.
- Vi 12.** **Pârvulescu, O.C.**, Dobre, T., Iavorschi, G., Mirea, R., 2008, *Characterization of Cereal Grains Pyrolysis with Volatiles Post-Processing*, 18<sup>th</sup> International Congress of Chemical and Process Engineering (CHISA), Prague, Czech Republic, CD-ROM of Full Texts, 1-9, ISBN:978-80-02-02048-6.
- Vi 13.** Dobre, T., Stroescu, M., **Pârvulescu, O.C.**, Ichim, M., Sandu, I.M., 2007, *Use of Ion Exchange in Nicotine Separation*, 34<sup>th</sup> International Conference of Slovak Society of Chemical Engineering, Tatranske Matliare, Slovakia, Proceedings (on CD), Po-We-4, 220s.pdf, 1-10, ISBN:978-80-227-2640-5.
- Vi 14.** Dobre, T., **Pârvulescu, O.C.**, Calotă, L., Iavorschi, G., 2007, *Use of Individual Breakthrough Curves for Prediction of Ion Removal by Fixed Bed Ion Exchange*, 34<sup>th</sup> International Conference of Slovak Society of Chemical Engineering, Tatranske Matliare, Slovakia, Proceedings (on CD), Po-We-4, 221s.pdf, 1-10, ISBN:978-80-227-2640-5.
- Vi 15.** Jinescu, G., Vasilescu, P., **Pârvulescu, O.C.**, 2005, *Mass Transfer in an External-Loop Air-Lift Apparatus with Three-Phase Fluidized Bed*, 5<sup>th</sup> Jubilee Symposium of South East European Countries (SEEC) on Fluidized beds in Energy Production, Chemical, Process Engineering & Ecology, Sunny Beach, Bulgaria, Proceedings, vol. 2, 53-64.



## Articole publicate în volumele unor manifestări științifice naționale

- Vn 1.** Jinescu, G., Vasilescu, P., **Pârvulescu, O.C.**, 2003, *Aspecte privind hidrodinamica aparatelor „air-lift” cu recirculare externă*, Simpozion „Mediul și Industria”, București, Romania, 386-394.

## III. BREVETE DE INVENȚIE

- B 1.** Dobre, T., Stoica, A., Stroescu, M., Iavorschi, G., **Pârvulescu, O.C.**, Sanchez-Marcano, J., Rivallin, M., *Membrane și sorbenți dezvoltate din sistemul compozit celuloză/bioceluloză-silicagel*, Brevet de invenție nr. RO 127026 A2, 2012, DIIDW:2012D53498.

## IV. CONTRACTE

### Proiecte de cercetare-dezvoltare naționale obținute prin competiție, pe bază de contract

- PN 1.** *Cercetări de laborator privind caracterizarea pirolizei masei vegetale proprii beneficiarului și caracterizarea masei lichide obținute* - beneficiar: S.C. ICE BLINK CONSULTING S.R.L., 12777/29.07.2013, nr. UPB T45-13-01 (2013-2014), director: prof. dr. ing. **Tănase DOBRE**.
- PN 2.** *Materiale biopolimerice superabsorbante pentru utilizari agricole* - SABIOM, PCCA2, 114/2012, nr. UPB CH45-12-01 (2012-2015), director: prof. dr. ing. **Anicuța STOICA**.
- PN 3.** *Soluii ecoeficiente pentru gestionarea deșeurilor de plastic folosind potentialul degradativ al sistemelor biologice* - ECODEGRAD, 32115/2008, PN II, nr. UPB CH45-08-17 (2008-2011), director: prof. dr. ing. **Marta STROESCU**.
- PN 4.** *Dezvoltarea unei metodologii de biocontrol exercitat de sisteme microbiene asupra infecțiilor fungice* - BIOCONTROL, 61045/2007, nr. UPB CH 45-07-17 (2007-2010), director: prof. dr. ing. **Marta STROESCU**.
- PN 5.** *Materiale compozite hibride, pe baza de polistiren expandat, destinate reabilitării termice a cladirilor* - COMRETERM, 21027/2007, nr. UPB CH 45-07-14 (2007-2010), director: prof. dr. ing. **Tănase DOBRE**.

- PN 6.** *Analiza prin modelare, simulare și experimentare a proceselor fundamentale din sinteza sol-gel cu matrice de bioceluloză*, IDEI 177/2007 (2007-2010), director: prof. dr. ing. **Tănase DOBRE**.
- PN 7.** *Structuri polimerice impregnate pentru recunoașterea moleculară a compuşilor bioactivi din fitoextracte - BIOSPIM*, 148/2006, CEEEX, nr. UPB 48-06-18 (2006-2008), director: prof. dr. ing. **Tănase DOBRE**.
- PN 8.** *Modelarea, simularea și experimentarea micro și nanoimplantării chimice în structuri vegetale poroase*, nr. UPB 48-05-16 (2005-2007), director: prof. dr. ing. **Tănase DOBRE**.

**20.03.2017**

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