

PETROLEUM-GAS UNIVERSITY OF PLOIEȘTI

Field: Chemical Engineering, Medical Engineering, Materials Science and Nanomaterials

Prof.dr.eng. Cursaru Diana-Luciana

LIST OF PUBLICATIONS

a) PhD Thesis

Kinetic investigations on direct hydration of n-butene in a multiphase reactor

Scientific coordinator: Prof. dr. eng. Ulrich Kunz (Technical University of Clausthal-Germany) Public presentation on 9.05.2006

b) Books

1. **Cursaru,D.** Tănăsescu, C., *Technology of lubricants*, Ed UPG, Ploiești, 244 pag, 2013, ISBN 978-973-719-463-3
2. Tănăsescu, C., **Cursaru,D.**, *Technology of lubricating oils*, Ed. UPG, Ploiești, 212 pag, 2009, ISBN 978-973-719-297-4.
3. Bohîlțea I., **Cursaru,D.**, Elements of modelling and optimization of chemical processes, Ed. MatrixRom, București, 236 pag, 2009, ISBN 978-973-755-545-8.
4. Tănăsescu, C., **Cursaru,D.**, Jugănar, T., Bogatu, L., *Technology of lubricants, practical applications*, Ed. UPG, Ploiești, 171 pag, 2010, ISBN 978-973-719-331-5
5. Roșca, P., Ciuparu, D., Borcea, A., Dragomir, R., **Petre, D.**, – Thermal-catalytical processes- practical applications, Ed. UPG, Ploiești, 117 pag, 2003, ISBN 973-7965-11-6.

c) Papers

c.1) Papers in journals listed in Web of Science Core Collection (ISI)

51. Brănoiu, Gh., Cehlarov, A., **Cursaru, D.**, Mihai, S., Celestine from Valea Sarii (Vrancea region): New Data and Crystal Structure Refinement, *Revista de Chimie*, 2020, 71, 8, p. 72-79.
50. Matei, D., Docin, B., **Cursaru, D.L.**, Stănică Ezeanu D., Yield optimization using artificial neural network in biodiesel production from soybean oil, *Revista de Chimie*, 2020, 71, 5, p. 132-140.
49. Brănoiu, Gh., **Cursaru, D.**, Mihai, S., Ramadan, I., Rietveld Structure Refinement of the Apophyllite Crystals from Deccan Basalt Plateau Using X-ray Powder Diffraction Data, *Revista de Chimie*, 2019, 70, 12, p. 4248-4254.
48. Rădulescu, G., **Cursaru, D.**, An optimal method for lubricating oil compounds properties estimations-The Computer based approach, *Revista de Chimie*, 2019, 70, 11, p. 3942-3946.
47. Mihai, S., **Cursaru, D.L.**, Matei, D., Manta, A.M., Șomoghi, R., Brănoiu, Gh., Rutile $Ru_xTi_{1-x}O_2$ nanobelts to enhance visible light photocatalytic activity, *Scientific Reports*, 2019, 9, 1-8
46. **Cursaru, D.L.**, Giagkas, N., Vizireanu, S., Mihai, S., Matei, D., Biță, B., Stancu, C., Manta, A.M., Ramadan, I., Improvement of antiwear properties by coating the steel surfaces and by lubricant additivation, *Digest Journal of Nanomaterials and Biostructures*, vol. 14 (4), 2019, 907-915

45. Matei, D., Docin, B., **Cursaru, D.L.**, Stănică Ezeanu D., Artificial Neural Network for Environmental Air Emissions Prediction Systems, *Revista de Chimie*, 2019, 70, 9, p. 3338-3342.
44. Manta, A.M., **Cursaru, D.L.**, Mihai, S., The influence of synthesis conditions on the structural and redox properties of Mn-MCM-41, *Digest Journal of Nanomaterials and Biostructures*, vol. 14 (3), 2019, 509-515.
43. Matei, D., **Cursaru, D.L.**, Stănică Ezeanu D., Reduction of harmful components of cigarette smoke using MCM-48, *Digest Journal of Nanomaterials and Biostructures*, vol. 14 (2), 2019, 381-386.
42. Song, K., Borcea, A., **Cursaru, D.L.**, Ciuparu, D., Kinetics of gas phase synthesis of ethyl-tert-butyl Ether (ETBE) on H3PW12O40/MCM-41 catalyst, *Revista de Chimie*, 2018, 69, 11, p. 3042-3047.
41. **D.L. Cursaru**, S. Nassreddine, B. Riachi, M. Neagu, S. Mihai, D. Matei, Gh. Brănoiu, *Impact of moisture on the corrosion behavior of copper and mild carbon steel in corn biodiesel*, *Corrosion Reviews*, <https://doi.org/10.1515/correv-2018-0015>, 2018, 36 (6), p. 559
40. S. Mihai, **D.L. Cursaru**, D. Matei, A. Dinescu, S. D. Stoica, S. Vizireanu, G. Dinescu, *Carbon nanowalls decorated with gold nanoparticles for surface-enhanced raman spectroscopy*, *Digest Journal of Nanomaterials and Biostructures*, vol. 13 (3), 2018, 743-749.
39. Doicin, B., Stănică Ezeanu D., **D.L. Cursaru**, *Estimation Relationships for Ethanol Conversion and Hydrogen Yield Using Neural Network for Ethanol Steam Reforming on Co/Al2O3 Catalyst*, *Revista de Chimie*, 2017, 68, 11, p. 2720-2725.
38. Matei, D., Stănică Ezeanu D., **Cursaru, D.L.**, *The Efficiency of Co/CeO2 Catalyst in Ethanol Steam Reforming Process*, *Revista de Chimie*, 2017, 68, 11, p. 2601-2604.
37. **D.L. Cursaru**, B. Doicin, S. Mihai, *Connection between Co/MCM-48 catalyst synthesis conditions and performances in the steam reforming process through artificial neural network*, *Digest Journal of Nanomaterials and Biostructures*, vol. 12 (2), 2017, 483-494.
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35. Song, K., Matei, D., **Cursaru, D.L.**, Matei, V., Ciuparu, D., *Characterization and Stability of Heteropolyacid Catalysts Supported on MCM-41 Materials Synthesized by Ultrasonic Irradiation*, *Revista de Chimie*, 2017, 68, 1, p. 101-107.
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33. Matei, D., Doicin B., **Cursaru, D.L.**, *Pd/SBA-15 mesoporous catalyst for ethanol steam reforming. A neural network approach*, *Digest Journal of Nanomaterials and Biostructures*, 2016, 11, No 2, p. 443-451.
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29. Ghiță D., Brezeanu G., Stănică-Ezeanu D., **Cursaru D.**, *Hydrogen Production by Ethanol Steam Reforming*, *Revista de Chimie*, 2015, 66, 6, p. 847-850
28. Brănoiu Gh., Mihai S., **Cursaru D.**, *Rietveld Structure Refinement of the Stibnite Crystals from Herja (Romania) using X-ray Powder Diffraction Data*, *Revista de Chimie*, 2015, 66, 6, p. 825-828

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35. Giagkas Nikolaos, Cursaru Diana, Vizireanu Sorin, Mihai Sonia, Tribological properties of Zr and ZrN coatings 4th International Colloquium Energy and Environmental Protection, 4-6.11.2020, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>
34. Diana Cursaru, Decarbonizing and desulfurization of maritime fuels – challenges, Climate needs action: workshop on achieving low carbon transport in cities, 3-4.09.2020 online
33. Khoury Nivine, Nassreddine Salim, Riachi Bassam, **Cursaru Diana**, Juganaru Traian (2018), Catalytic hydroprocessing of light cycle oil - vegetable oil mixture for biofuels production, 3rd International Colloquium Energy and Environmental Protection, 14-16.11.2018, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>
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27. **Cursaru, D.**, Ghiță D., Bogatu, L., (2015), *Investigations on corrosion potential of sunflower biodiesel over automotive materials- 10th International Colloquium Fuels*, 20-22.01.2015, Esslingen, Germany
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(*WIT Transactions on Ecology and the Environment, Volume 147, 2011, Pages 331-341, 19th International Conference on Modelling, Monitoring and Management of Air Pollution, AIR 2011;19 September 2011through21 September 2011;Code92382, ISSN: 17433541 ISBN: 978-184564528-1, DOI: 10.2495/AIR110311*)
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2. **26/2015** Analize difracție de raze X pentru cenușă, Beneficiar Lukoil Energy&Gas Romania, Ploiești-**director proiect**
3. **14/2015** Caracterizarea fizico-chimică a condensatului de la sondele de extracție a gazelor, Beneficiar S.C. STRATUM ENERGY ROMÂNIA LLC WILMINGTON, Suc. Blejoi – membru
4. **12/2015** Calcule privind determinarea coeficienților maximi de pierderi, specifici activităților de depozitare, manipulare, distribuție și transport, desfășurate la rafinaria Petrotel-Lukoil Ploiești, Beneficiar PETRODESIGN S.A.-membru
5. **42/2014** Cercetări și expertiză tehnică privind evaluarea coeficienților de consum tehnologic, specifici activității de depozitare și manipulare produse petroliere finite, în depozitele și stațiile de carburanți aparținând Rompetrol Downstream, Beneficiar PETRODESIGN S.A.-membru
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7. **27/2014** Analize difracție de raze X pe carote, Beneficiar OMV-PETROM S.A-ICTP Câmpina.-**director proiect**
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13. **168/2012** Analiza fizico-chimică a unor motorine- Beneficiar COMITETUL OLIMPIC SI SPORTIV ROMAN, COMPLEX OLIMPIC SYDNEI 2000-**director proiect**;
14. **33/2010** - Proces alternativ de fabricare a biodieselului din bioetanol. Noi metode de separare a biodieselului de glicerină-Beneficiar UEFISCSU-**director proiect**;
15. **150/2010** - Studiu privind evaluarea pierderilor de produse petroliere lichide in activitatea de descarcare, incarcare, depozitare, manipulare si transport- Beneficiar SC OLCHEM SA-membru;
16. **149/2010** - Studiu privind determinarea randamentelor reale pentru instalațiile tehnologice aferente diviziei petrochimice Bradu a societății comerciale SC OLCHEM SA- Beneficiar OLCHEM SA-membru;
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