

LISTA DE LUCRĂRI

A) TEZA DE DOCTORAT

Dragomir R.E., *Contribuții la studiul formării cocsului pe catalizatorii de cracare catalitică*, (Contribution to the study of coke formation on catalytic cracking catalysts), Universitatea Petrol-Gaze din Ploiești, 2006. Conducător științific: Prof. dr. ing. Constantin Ionescu.

B) BREVETE DE INVENȚIE ȘI ALTE TITLURI DE PROPRIETATE INDUSTRIALĂ ȘI INTELECTUALĂ

1. Roșca P., Bomboș D., Matei V., Dușescu C., Popovici D., Jugănar T., **Dragomir R.E.**, Bumbac Gh., Bomboș M., Vasilievici G., *Catalizator pentru reformarea bioalcoolilor*, OSIM RO 126377B1, 11/2013.

C) CURSURI, CĂRȚI ȘI INDRUMARE DE LABORATOR

1. **Dragomir R.E.**, *Tehnologii nepoluante în prelucrarea petrolului*, Editura UPG, Ploiești, 2013, p. 1-250, ISBN 978-973-719-502-9.
2. Roșca P., **Dragomir R.E.**, *Fabricarea produselor petroliere ecologice*, Editura UPG, Ploiești, 2004.
3. Roșca P., Ciuparu D., Borcea A., **Dragomir R.E.**, Petre D., *Procese termocatalitice. Îndrumar de laborator*, Editura UPG, Ploiești, 2003, ISBN 973-7965-11-6.

D) ARTICOLE / STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

D1. Articole în reviste cotate ISI

1. **Dragomir R.E.**, Dușescu-Vasile C.M., Manta A.M., Movileanu D.M., Bomboș D., *Ecotoxicological Monitoring of DSS Microorganisms and Quorum Sensing-Mediated Behavior Control over Metal Corrosion of Al, Zn and Fe*, *Toxics*, 2026, 14(4), 297, <https://doi.org/10.3390/toxics14040297> (WOS:001750530000001)
2. Gheorghe C.G., **Dragomir R.E.**, *Optimization of Diesel Fuel Quality and Production by Hydrotreated Gasoil Mixtures Using Co-Mo/ γ -Al₂O₃ Catalysts*, *Reaction Kinetics, Mechanisms and Catalysis*, 2025, 138(5), p. 2759–2776, <https://doi.org/10.1007/s11144-025-02913-0> (WOS:001536361900001)
3. Gheorghe C.G., Popovici D., Bomboș D., **Dragomir R.E.**, Dima F.M., Băjan M., Vasilievici G., *Monitoring the Biodegradation Progress of Naphthenic Acids in the Presence of *Spirulina platensis* Algae*, *Toxics*, 2025, 13(5), 368, <https://doi.org/10.3390/toxics13050368>, (WOS:001496611600001)
4. **Dragomir R.E.**, *The Kinetic and Experimental Study for the Pyrolysis of Hydrotreated and Non-Hydrotreated Coking Distillated Fractions*, *Reaction Kinetics, Mechanisms and Catalysis*, 2024, 137(5), 2599–2615, <https://doi.org/10.1007/s11144-024-02660-8>, (WOS:001255197500001)
5. Gheorghe V., Gheorghe C.G., Popovici D.R., **Dragomir R.E.**, Șomoghi R., *Reduction of Oxygen Production by Algal Cells in the Presence of O-Chlorobenzylidene Malononitrile*, *Bioengineering*, 2024, 11(6), 623, <https://doi.org/10.3390/bioengineering11060623>, (WOS:001254674100001)
6. **Dragomir R.E.**, *Polyethylene Waste Recycling into Fuel Products by Catalytic Cracking on Vision Zeolite Catalyst*, *Reaction Kinetics, Mechanisms and Catalysis*, 2023, 136(4), p. 2295–2308, <https://doi.org/10.1007/s11144-023-02462-4>, (WOS:001041847300002)
7. Țepeluș A., **Dragomir R.E.**, Roșca P., *Sustainable Aviation Fuel from Hydroconversion of Safflower Oil over NiMo/Al₂O₃ and Pt-ZrO₂/Al₂O₃ Catalysts*, *Reaction Kinetics, Mechanisms*

- and Catalysis, 2022, 135(3), p. 1503–1522. <https://doi.org/10.1007/s11144-022-02197-8>, (WOS:000770207500001)
8. Țepeluș A., **Dragomir R.E.**, Roșca P., *Biojet from Sugar Derivatives*, Revue Roumaine de Chimie, 2021, 66(4), p. 313–320, <https://doi.org/10.33224/rch.2021.66.4.01>, (WOS:000744200400001)
 9. Țepeluș A., Roșca P., **Dragomir R.E.**, *Biojet from Hydroconversion of Camelina Oil Mixed with Straight Run Gas Oil*, Revista de Chimie, 2019, 70(9), p. 3284–3291, <https://doi.org/10.37358/RC.19.9.7536>, (WOS:000489958900043)
 10. **Dragomir R.E.**, Roșca P., Popa C., *Five-Lump Kinetic Model for the Catalytic Cracking Process*, Revista de Chimie, 2018, 69(10), p. 2633–2637, ISSN 0034-7752, <https://doi.org/10.37358/RC.18.10.6595>, (WOS:000451925300007)
 11. Ion C.S., Bomboș M., Vasilievici G., Fierascu R.C., **Dragomir R.E.**, Bombos D., *Fuels Desulphurisation by Adsorption on Blasting Grit*, Revista de Chimie, 2017, 68(4), p. 732 – 736, ISSN 0034-7752, <https://doi.org/10.37358/RC.17.4.5540>, (WOS:000400732400021)
 12. **Dragomir R.E.**, Roșca P., Jugănaru T., *Upgrading FCC Light Cycle Oil*, Revista de Chimie, 2017, 68(4), p. 35-39, ISSN 0034-7752, <https://doi.org/10.37358/RC.17.1.5383>, (WOS:000395499200008)
 13. **Dragomir R.E.**, Bogatu L., Roșca P., *Benzene Management in Refinery Gasoline Pool*, Revista de Chimie, 2016, 67(12), p. 2600-2604, ISSN 0034-7752, (WOS:000393230400043)
 14. Bogatu L., **Dragomir R.E.**, *Influence of Additives on Antiwear and Extreme Pressure Behaviour of Vegetable Oils*, Revista de Chimie, 2016, 67(4), p. 630-633, ISSN 0034-7752, (WOS:000376549200008)
 15. Bogatu L., **Dragomir R.E.**, Roșca P., *Efficiency of Antioxidant Additives Mixed in Vegetable Oils*, Revista de Chimie, 2016, 67(1), p. 157-161, ISSN 0034-7752, (WOS:000369524300035)
 16. Al-Ali A., Bombos M., Buzoianu D.A., Matei V., **Dragomir R.E.**, Jugănaru T., Bombos D., *Hydrotreating of Coker Gas Oil in Single and Double Catalytic Layer*, Revista de Chimie, 2016, 67(1), p. 157-161, ISSN 0034-7752, (WOS:000369524300035)
 17. **Dragomir R.E.**, Bogatu L., Roșca P., *Upgrading of the FCC Gasoline Quality*, Revista de Chimie, 2015, 66(12), p. 2091-2096, ISSN 0034-7752, (WOS:000395499200008)
 18. Al-Ali A., Bombos M., Buzoianu D.A., Jugănaru T., **Dragomir R.E.**, Bombos D., *Hydrocracking of Delayed Coker Gas Oil by Cobalt Catalysts*, Revista de Chimie, 2015, 66(12), p. 2065-2069, ISSN 0034-7752 (WOS:000368437100032)
 19. Oprescu E.E., Bombos D., **Dragomir R.E.**, Stepan E., Bolocan I., *Esterification of Free Fatty Acids with Methanol over Superacid Catalyst*, Revista de Chimie, 2015, 66(6), p. 864-867, ISSN 0034-7752, (WOS:000357403600023)
 20. Bogatu L., **Dragomir R.E.**, *Suitable Compositions for Efficient Deep Stamping Lubricants*, Revista de Chimie, 2015, 66(5), p. 722-726, ISSN 0034-7752, (WOS:000355126000025)
 21. **Dragomir R.E.**, Bogatu L., Roșca P., Jugănaru T., Oprescu E.E., *Biodiesel Produced by Two-Step Hydroprocessing of Waste Cooking Oil. II. Hydrocracking of Hydrotreated Waste Cooking Oil and Straight Run Gasoil Mixture*, Revista de Chimie, 2015, 66(4), p. 552-555, ISSN 0034-7752, (WOS:000354914500024)
 22. **Dragomir R.E.**, Oprescu, E.E., Roșca, P., *Comparative Properties of Fossil Diesel, Conventional Biodiesel and Green Diesel Blends*, Revista de Chimie, 2015, 66(3), p. 400-403, ISSN 0034-7752, (WOS:000352756300024)
 23. **Dragomir R.E.**, Roșca P., Jugănaru T., Oprescu E.E., *Biodiesel Produced by Two-Step Hydroprocessing of Waste Cooking Oil. I. Hydrotreating of Waste Cooking Oil and Straight Run Gasoil Mixture*, Revista de Chimie, 2015, 66(2), p. 277-281, ISSN 0034-7752, (WOS:000351659300029)
 24. Oprescu E.E., Bomboș D., Bolocan I., **Dragomir R.E.**, Roșca P., *Diesel Fuel Green Additive Based on Glycerol*, Revista de Chimie, 2014, 65(10), p. 1226-1229, ISSN: 0034-7752, (WOS:000344719500022)
 25. Oprescu E.E., **Dragomir R.E.**, Radu A., Radu E., Velea S., Bolocan I., Stepan E., Roșca P., *Performance and Emission Characteristics of Diesel Engine Powered with Diesel Glycerol Derivatives Blends*, Fuel Processing Technology, 2014, 126, p. 460-468, ISSN: 0378-3820, <https://doi.org/10.1016/j.fuproc.2014.05.027>, (WOS:000340329600052)

26. **Dragomir R.E.**, Roșca P., Oprescu E.E., *Renewable Diesel Production by Co-Processing of Rapeseed Oil Mixed with Straight Run Gas Oil*, Revista de Chimie, 2014, 65(5), p. 616-619, ISSN 0034-7752, (WOS:000337011900024)
27. **Dragomir R.E.**, Roșca P., *Biodiesel by Hydroprocessing of Gas Oil–Vegetable Oil*, Revista de Chimie, 2014, 65(4), p. 485-488, ISSN 0034-7752, (WOS:000338605100021)
28. Oprescu E.E., Stepan E., **Dragomir R.E.**, Radu A., Roșca P., *Synthesis and Testing of Glycerol Ketals as Components for Diesel Fuel*, Fuel Processing Technology, 2013, 110, p. 214-217, ISSN: 0378-3820, <https://doi.org/10.1016/j.fuproc.2012.12.017>, (WOS:000316586800028)
29. Dușescu C., Roșca P., Bomboș D., Jugănaru T., Popovici D., **Dragomir R.E.**, *Hydrogen from Glycerol by Steam Reforming*, Revista de Chimie, 2012, 63(2), p. 229-231, ISSN 0034-7752, (WOS:000301566400020)
30. Petre M.N., Roșca P., **Dragomir R.E.**, *The Effect of BioEthers on the Volatility Properties of Oxygenated Gasoline*, Revista de Chimie, 2011, 62(5), p. 567-574, ISSN 0034-7752, (WOS:000291275700016)
31. Petre M.N., Roșca P., **Dragomir R.E.**, Mihai O., *Bioalcohols Compounds for Reformulated Gasolines II. Prediction of Volatility Properties, for Fuel-Alcohols Blends*, Revista de Chimie, 2010, 61(8), p. 805-808, ISSN 0034-7752, (WOS:000282497600021)
32. Petre M.N., Roșca P., **Dragomir R.E.**, Mihai O., *Bioalcohols Compounds for Reformulated Gasolines I. The effect of Alcohols on Volatility Properties of Gasolines*, Revista de Chimie, 2010, 61(7), p. 706-711, ISSN 0034-7752, (WOS:000281217000020)
33. Neagu (Petre) M., Roșca P., **Dragomir R.E.**, Mihai O., *The Effect of Bioalcohol on the Water Solubility in Reformulated Gasoline*, Chemical Engineering Transactions, 2010, 21, p. 1291–1296, <https://doi.org/10.3303/CET1021216>, (WOS:000286978600216)
34. **Dragomir R.E.**, Roșca P., *Influence of Catalyst Aging on Coke Deposits during the Cracking Process*, Revista de Chimie, 2007, 58(11), p. 1117-1121, ISSN 0034-7752, (WOS:000251833900023)
35. Roșca P., **Dragomir R.E.**, Ionescu C., *Deactivation of Zeolite Catalysts by Coke Deposition*, Revista de Chimie, 2003, 54(8), p. 707-710, ISSN 0034-7752, (WOS:000186321000013)
36. Roșca P., Bolocan I., **Dragomir R.E.**, *A Mathematic Model for the Simulation of the Integrated Riser Regenerator System from the Catalytic Cracking Installation*, Revista de Chimie, 2003, 54(7), p. 624-631, ISSN 0034-7752, (WOS:000185562900017)

D2. Articole publicate în reviste de specialitate necotate ISI

1. **Dragomir R.E.**, *Recovery of tires waste through thermal cracking*, Romanian Journal of Petroleum & Gas Technology 2023, IV, LXXV, 1, <https://doi.org/10.51865/JPGT.2023.01.19>
2. **Dragomir R.E.**, Doicin B., *FCC-DD a software approach of the Castiglioni method for FCC yields prediction*, Romanian Journal of Petroleum & Gas Technology 2023, IV, LXXV, 1, <https://doi.org/10.51865/JPGT.2023.01.03>
3. **Dragomir R.E.**, Roșca P., *Biofuel from Hydroprocessing Fish Oil*, Revista de Chimie, 2020, 71(1), p. 176–184, <https://doi.org/10.37358/RC.20.1.7829>
4. Neagu M., Roșca P., **Dragomir R.E.** *The bio-ethanol effects on volatility properties of oxygenated gasoline*, Buletinul UPG Ploiești, 2012, LXIV, 1, p. 75-85.
5. Neagu M., Roșca P., **Dragomir R.E.**, Mihai O., *The Oxygenates Compounds Type Alcohols and Ethers as Reformulated Gasoline Substitutes*, Buletinul UPG, 2009, LXI, 4, p. 19-20
6. Petre M., **Dragomir R.E.**, Roșca P., (2008) *The effect of oxygenated compounds in formulated type EURO gasolines*, Chemical Bulletin of Politehnica University of Timișoara, Vol. 53 (67), No.1, 2, p. 118 – 122
7. **Dragomir R.E.**, Roșca P., *The influence of coke depositions on the acidity of FCC catalysts*, Buletinul UPG, 2008, LX, 4B p. 99-104
8. Dușescu C. , **Dragomir R.E.**, Popovici D., Brebeanu Gh., Ciuparu D., Roșca P., *Tendințe în evoluția formulării și calității combustibililor petrolieri*, Jurnal de Petrol, 2008, 1
9. **Dragomir R.E.**, Roșca P., Ionescu C., *Studiul formării cocsului pe catalizatorii de cracare*, Buletinul UPG, 2005, LVII, 2

10. Roșca P., Onuțu I., **Dragomir R.E.**, *Reducerea sulfului din benzina de cracare catalitică cu conservarea cifrei octanice*, Buletinul UPG, 2005, LVII, 2
11. Roșca P., Onuțu I., **Dragomir R.E.**, *Reducerea sulfului din benzina de cracare catalitică*, Buletinul UPG, 2004, LVI, 1

E) PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

1. Petre M.N., Roșca P., **Dragomir R.E.**, Mihai O., The Effect of Bioalcohol on the Water Solubility in Reformulated Gasoline, CHISA 2010 & ECCE-7, Praga, 28 Aug – 1 Sept 2010, ISBN 978-80-02-02210-7.
2. Roșca P., Petre (Neagu) M., **Dragomir R.E.**, Mihai O., Volatility of Reformulated Gasolines with Alcohols, 5th WSEAS International Conference on Energy, Environment, Ecosystems, Atena, 28–30 Sept 2009, pp. 116–121, ISSN 1790-5095, ISBN 978-960-474-125-0.
3. Roșca P., **Dragomir R.E.**, Tănăsescu C., Brebeanu Gh., The Influence of Storage Conditions on Evaporative Losses from Oil Tanks, Ovidius University Annals of Chemistry, vol. XIV, nr. 1, 2003, pp. 200–204, ISSN 1223-7221.
4. Roșca P., **Dragomir R.E.**, CO2 capture and sequestration. Refinery case study, 7th ICOSECS (7th (International Conference of The South Eastern Countries Chemical Societies), Ed. Politehnica Press, ISBN: 978-606-515-121-5, September 15 – 17, Bucharest, Romania, 2010
5. Roșca P., **Dragomir R.E.**, Tănăsescu C., Brebeanu Gh., The influence of the storage conditions on the evaporative losses from oil tanks, Ovidius University Annals of Chemistry, vol. XIV nr1, 2003, 200-204, ISSN 1223 7221

F) ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE

PARTICIPĂRI LA CONFERINȚE INTERNAȚIONALE (FĂRĂ PUBLICAREA LUCRĂRILOR ÎN EXTENSO)

1. Băjan M., **Dragomir R.E.**, Dușescu-Vasile C., Bomboș D., Movileanu D.L., Negoită L.I., Manta A.M., Filotti L., Borcea A., Marciuc M., Can Wood Sawdust Be a Fuel Component Resource? 6th International Colloquium Energy and Environmental Protection, Ploiești, 12–14 Nov 2025.
2. **Dragomir R.E.**, Gheorghe C., Borcea A., Polyethylene Waste Recycling into Fuel Products by Catalytic Cracking on VISION Zeolite Catalyst, Colloquium Energy and Environmental Protection, Ploiești, 12–14 Nov 2025.
3. **Dragomir R.E.**, Țepeluș A., Borcea A., Sustainable Aviation Fuel from Hydroconversion of Safflower Oil, 5th International Colloquium Energy and Environmental Protection, Ploiești, 9–10, Nov 2023.
4. Țepeluș A., **Dragomir R.E.**, Roșca P., Biojet from Sugar Derivatives, 4th International Colloquium Energy and Environmental Protection, Ploiești, 4–6 Nov 2020.
5. **Dragomir R.E.**, Roșca P., Țepeluș A., Obtaining Biojet from Hydroconversion of Camelina Oil Mixed with Straight Run Gas Oil, 3rd International Colloquium Energy and Environmental Protection, Ploiești, 14–16 Nov 2018.
6. **Dragomir R.E.**, Roșca P., Biodiesel by Hydroprocessing of Gas Oil Vegetable Oil Mixture, 1st International Colloquium Energy and Environmental Protection, Ploiești, 20–21 Nov 2014.

G) Proiecte de cercetare/dezvoltare pe bază de contract sau grant

1. Contract de cercetare GO-GICS nr. 30833/11.12.2024 cu tema: Biomasă lignocelulozică – soluție alternativă și ecologică pentru energie și infrastructură, beneficiar Universitatea Petrol-Gaze din Ploiești; membru.
2. Conversia deșeurilor în derivați ai furanului în scopul utilizării ca biocarburant, Contract 26/2014, Program PN II – Parteneriate, membru.

3. Studiu privind coeficienții maximi de consumuri tehnologice din rafinăriile Petromidia și Vega, Contract 34/2014, Beneficiar PETRODESIGN S.A., membru.
4. Bilanțul termoeenergetic al platformei RC2 din Rafinăria Petrobrazî, Contract 845141579708/2011, Beneficiar OMV S.A., membru.
5. Reducerea spumării în camerele de cocsare la OMV Petrom S.A., Contract 16/2011, Beneficiar OMV Petrom S.A., membru.
6. Determinarea randamentelor reale pentru instalațiile tehnologice ale diviziei petrochimice Bradu Oltchim, Contract 149/2010, Beneficiar Oltchim S.A., membru.
7. Cercetări privind substituirea parțială a benzinelor auto cu amestecuri eteri–benzină–alcooli, Contracte 2/2009 UPG și 1016/2009 CNCSIS, membru.
8. Industria de rafinare și petrochimie – prezent și perspective. Elemente strategice pentru creșterea competitivității, Plan Sectorial MEF, Contract 57/2008, membru.
9. Hidrogen din surse bioregenerabile, Program PNCII – P4 Parteneriate, Contract 69/2007, membru.
10. Dezvoltarea unui laborator de testare a calității carburanților conform cerințelor europene, INFRASTRUCTURA Modul IV, Contract 45/2006, membru.
11. Determinarea consumurilor tehnologice la transportul țițeiului, gazolinei și condensatului de la punctele de preluare la rafinării, Contract 49/2001, Beneficiar CONPET S.A., membru.
12. Contractul 1292/2000, „Bitumuri din smoale petroliere de distilare”, Programul Relansin; membru.

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