DOMENIUL: INGINERIE CHIMICĂ
UNIVERSITATEA PETROL-GAZE DIN PLOIEŞTI
Candidat: Oprescu Elena-Emilia

Avizat,
Director CSUD al IOSUD UPG Ploieşti
Prof. univ. dr. Ciuparu Mihael Dragoş

FISA referitoare la îndeplinirea standardelor minimale necesare şi obligatorii pentru susţinerea tezei de abilitare în domeniul - **INGINERIE CHIMICĂ**
conform Anexei nr. 8 ordinul 6.129/2016

1. Studiile de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	D o m e n i u l	Perioada	Titlul teza doctorat
1	Universitatea Petrol - Gaze din Ploieşti	Inginerie Chimică	2009-2013	Valorificarea glicerinei sub forma unor aditivi componenti pentru carburanti diese

2. Indeplinirea standardelor minimale

Criteriul	Nr. minim impus	Nr. realizat		
NTOP	**≥ 4**	**6**		
NP - număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă)	**20**	**20**		
FIC - factor de impact cumulat (suma factorilor de impact ale revistelor la momentul înscrierii la concurs)	**30**	**FIC din articole**	**FIC din brevete**	**FIC TOTAL**
		56,895	**1,232**	**58,12**
NC - număr total de citări (din baza SCOPUS)	**≥120**	**178**		
NCO ≥ 1	**1**	**1**		

3. Tabel cu articole ISI (indicatorii NT, NP şi FIC din articole ISI)

Nr. crt.	Autorii/titlul lucrării/titlul revistei/ /anul/vol/nr./pag. de la-până la/ISSN	Nr autori /prim autor/autor de corespondenţă	Factorul de impact al revistei	Factorul de impact ce revine candidatului
1	Oprescu E.-E., Enascuta E.C., Vasilievici G., Banu N.D., Banu I.,Preparation of magnetic biochar for nitrate removal from aqueous solutions, Reaction Kinetics, Mechanisms and Catalysis https://doi.org/10.1007/s11144-022-02263-1, on line	5 / prim autor	1.843	1.843

2	Vintila, ACN ; Vlaicu, A ; Radu, E ; Ciltea-Udrescu, M ; Enascuta, EC ; Banu, I ; Oprescu, EE., Evaluation of ultrasound assisted extraction of bioactive compounds from microalgae, Journal of Food Measurement and Characterization, (2022), 16, 2518–2526	7 / autor de corespondenta	3.006	3.006
3	Calin, C; Leostean, C; Trifoi, AR; Oprescu, EE,; Wiita, E,; Banu, I; Doukeh, R., Mutual inhibition effect of sulfur compounds in the hydrodesulfurization of thiophene, 2-ethylthiophene and benzothiophene ternary mixture, Scientific Reports, (2021) 11:19053	7	4.996	0.7137
4	Marinescu, Mihai, Popovici, D.R., Bombos, D., Vasilievici, G., Rosca, Paul, Oprescu, E.□E, Bolocan, I., Hydrodeoxygenation and hydrocracking of oxygenated compounds over CuPd/γ-Al2O3–ZSM-5 catalyst, Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 1013–1026.	7	1.843	0.263
5	Oprescu, E.-E., Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, Renewable Energy, 2021, 176, 651-662.	5/ prim autor	8.634	8.634
6	Popovici, D.- R., Neagu M., Dusescu-Vasile, C.M., Bombos, D., Mihai S., Oprescu, E.-E., Adsorption of p-nitrophenol onto activated carbon prepared from fir sawdust: isotherm studies and error analysis, Reaction Kinetics, Mechanisms and Catalysis , 2021, 133, 483–500.	6/ autor de corespondenta	1.843	1.843
7	Doukeh, R., Bombos, D., Bombos, M., Oprescu, E.-E., Dumitrascu, G., Vasilievici, G., Calin, C. Catalytic hydrotreating of bio-oil and evaluation of main noxious emissions of gaseous phase, Scientific Reports, 2021, 11(1), 6179,	7/ autor de corespondenta	4.996	4.996
8	Doukeh, R., Bombos, M., Bombos, D., Vasilievici, G., Radu, E., Oprescu, E.-E., Pyrolysis of digestate from anaerobic digestion on tungsten oxide catalyst, Reaction Kinetics, Mechanisms and Catalysis, 2021, 132(2), 829-838,	6/ autor de corespondenta	1.843	1.843
9	Bombos, M., **Oprescu, E.-E.,** Calin, C., Vasilievici, G., Velea, S., Bombos, D. Slow pyrolysis of biomass in acidic or metallic catalysis, Rev. de Chim., 2019, 70(9), 3148-3151.	6/autor de corespondenţă	0	0
10	Oprescu, E.-E., Bombos, M., Vasilievici, G., Velea, S., Use of Ethoxylated Surfactants to Improve Digestate Stability, Rev. de Chim., 2019, 70(7), 2530-2533.	4/prim autor	0	0

11	Oprescu, E.E., Enascuta, C.E., Galan, A.M., Bombos, M., Vasilievici, G., Isopencu, G., Lavric, V., Velea, S., Evaluation of Porphyridium purpureum and Nannochloropsis sp. For carbohydrates and lipids production, Rev. de Chim., 2019, 70(9), 3305-3308 .	8/prim autor	0	0
12	Enascuta C.E., Stepan E., Bolocan I., Bombos D., Calin C., **Oprescu E.-E.,** Vasile L., Simultaneous production of oil enriched in ω-3 polyunsaturated fatty acids and biodiesel from fish wastes, Waste Management, 2018, 75, 205-214.	7/autor de corespondenţă	8.816	8.816
13	Stepan, E., Enascuta, C.-E**., Oprescu, E.-E.,** Radu, E., Vasilievici, G., Radu, A., Stoica, R., Velea, S., Nicolescu, A., Lavric, V., A versatile method for obtaining new oxygenated fuel components from biomass, Industrial Crops and Products, 2018, 113, 288-297.	10	6.449	0.6449
14	Gherman T., Popescu V., Carpa R., Gavril G.L., Rapa M., **Oprescu E.-E.,** Salvia Officinalis Essential Oil Loaded Gelatin Hydrogel as Potential Antibacterial Wound Dressing Materials, Rev. De Chim., 2018, 69(2), 410-414.	6	0	0
15	Radu, E., **Oprescu, E.-E.**, Enascuta, C.E., Calin, C., Stoica, R., Scaeteanu, G.V., Vasilievici, G., Capra, L., Ivan, G., Ion, A.C., Kinetic adsorption of humic acids mixture obtained from microalgae on exfoliated graphite nanoplatelets, Rev. De Chim, 2018, 69(1), 191-195	10/autor de corespondenţă (nu apare pe Scopus, dar apare in articol-anexa 1)	0	0
16	Enascuta, C.E., Stepan, E., **Oprescu, E.-E.,** Radu, A., Alexandrescu, E., Stoica, R., Epure, D.G., Niculescu, M.D., Microencapsulation of essential oils, Rev. de Chim.(Bucharest), 2018, 69(7), 1612-1615.	8/autor de corespondenţă	0	0
17	Galan A.-M., Calinescu I., Radu E., **Oprescu, E.-E.,** Vasilievici G., Velea S., Development of a new method for determination of the oil content from microalgae lipid fraction, Rev. de Chim, 2017, 68(4), 671-674.	6	0	0
18	Bombos D., Velea S., Bombos M., Vasilievici G., **Oprescu, E.E.,/** Ecological component for motor fuels based on furfural derivates, Rev. de Chim., 2016, 67(4), 745-750.	5/autor de corespondenţă	0	0
19	Radu, E., Stoica, R., Doncea, S.M., Vasilievici, G., **Oprescu, E.E.,** Bolocan, I. Al-Ogaidi, A.J.M., Ion, I., Ion, A.C. / Vancomycin sorption on pristine and oxidized exfoliated graphite nanoplatelets/ Rev. de Chim., 2016, 67(3), 401-407.	9	0	0
20	Radu E., Stoica, R., Calin, C., **Oprescu E-.E.,** Bolocan, I., Ion, I., Ion, C.A/ Validation of a RP-HPLC-UV method for the determination of bisphenol a at low levels in natural mineral water/ Rev. de	7	0	0

	Chim., 2016, 67(2), 236-240.			
21	Stepan, E., Enascut, C.-E., **Oprescu, E.-E.,** Radu, E., Radu, A., Galan, A-M, Vasilievici G., Lavric V., Velea S./ Intermediates for synthetic paraffinic kerosene from microalgae, Fuel, 2016, 172, 29-36	9/autor de corespondenţă	8.035	8.035
22	Rizea, C., Bombos, M., Vasilievici G., Bombos D., **Oprescu E.-E./** Acidity Influence of Catalysts on the Process Selectivity, Rev.Chim., 2015, 66(12), 2031-2035.	5	0	0
23	Bombos, M., Cristea, S., **Oprescu E.-E.,** Vasilievici G., Bombos D., Bolocan I./ Triglycerides Hydroconversion of Sunflower Oil On Ru / Gama-Alumina Catalyst, Rev. de Chim., 2015, 66(11) 1810-1813.	6	0	0
24	**Oprescu, E.-E.,** Bombos, D., Dragomir, R.-E., Stepan, E., Bolocan, I./ Esterification of Free Fatty Acids with Methanol over Superacid Catalyst/ Rev. de Chim., 2015, 66(6), 864-867.	5/prim autor	0	0
25	Dragomir, R.-E., Bogatu, L., Rosca, P., **Oprescu, E.-E.,** Juganaru, T./ Biodiesel Produced by Two Step Hydroprocessing of Waste Cooking Oil. II. Hydrocracking of hydrotreated waste cooking oil and straight run gasoil mixture, Rev. de Chim.., 2015, 66(4), 552-555.	5	0	0
26	Dragomir, R.-E., Rosca, P., **Oprescu, E.-E./**Comparative properties of fossil diesel, conventional biodiesel and green diesel blends/ Rev. de Chim., 2015, 66(3), 400-403	3/autor de corespondenţă	0	0
27	Dragomir, R.-E., Rosca, P., Juganaru, T., **Oprescu, E.-E.,** /Biodiesel produced by two step hydroprocessing of waste cooking oil 1. Hydrotreating of waste cooking oil and straight run gasoil mixture, Rev. de Chim., 2015, 66(2), 277-281.	4	0	0
28	Dragomir, R.-E., Rosca, P., **Oprescu, E.-E./**Renewable diesel production by co-processing of rapeseed oil mixed with straight run gas oil, Rev. de Chim., 2014, 65(5) 616-619.	3	0	0
29	**Oprescu, E.-E.,** Bombos, D., Bolocan, I., Dragomir, R-E, Rosca, P./Diesel Fuel Green Additive based on Glycerol/ Rev.Chim., 2014, 65(10) 1226-1229.	5/prim autor	0	0
30	**Oprescu, E.-E.,** Dragomir, R.-E., Radu, E., Radu, A., Velea, S.,, Bolocan, I.,	8/prim autor	8.129	8.129

	Stepan, E., Rosca, P./ Performance and emission characteristics of diesel engine powered with diesel–glycerol derivatives blends/ Fuel Process. Technol. 2014, 126, -468.			
31	**Oprescu, E.-E.**, Stepan, E., Dragomir, R.-E., Radu, A., Rosca, P./ Synthesis and Testing of Glycerol Ketals as Components for Diesel Fuel, Fuel Process.Technol., 2013, 110,214-217	5/prim autor	8.129	8.129
32	**Oprescu, E.-E.,** Stepan, E., Rosca, P. ,Radu, A., Enascuta, C.-E./Synthesis of Glycerol Carbonate over Hydrotalcite Catalyst/ Rev. Chim., 2012, 63(6), 621-625	5/prim autor	0	0
33	Stepan, E., Velea, S., Tanase, C., Radu, A., Enascuta, C.-E., **Oprescu, E.-E.,**/Biodiesel and Surfactants from Fats, Rev. de Chim., 2012, 63(6), 646-650	6	0	0
NTOP				**6**
NP - număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă)				**20**
FIC - factor de impact cumulat (suma factorilor de impact ale revistelor la momentul înscrierii la concurs)				**56.895**

4. Tabel cu brevete naţionale şi internaţionale (indicatorul FIC din brevete)

Nr. crt.	Brevetul, autorii, titlul brevetului, instituţia care l-a acordat, ţara în care se află instituţia, data acordării brevetului.	Tipul brevetului (naţional/internaţional)	Număr autori	Factorul de impact al brevetului	Factorul de impact ce revine candidatului
1	**Nr. RO 127,647,** Stepan, E., Velea, S., Enascuta, C. E., Radu, A., **Oprescu, E.- E.,** Tudor, A., Procedeu de obţinere a esterilor metilici ai acizilor graşi sulfurizaţi, din grăsimi, OSIM, Romania, 2012	naţional	6	1	0,166
2	**Nr. RO 126,669,** Stepan, E., Velea S., Tanase, C., Radu, A., Enascuta , C. E., **Oprescu E.- E.,** Procedeu de obţinere a unui biocarburant diesel şi a unor tenside din materii grase, OSIM, Romania, 2012	naţional	6	1	0,166
3	Stepan Emil, Oprescu, E. E. Radu, A.,	naţional	4	1	0,25

	Enăşcuţă C. E., 2017, "Process for obtaining acetals and ketals of glycerol", RO Patent 128,997.				
4	Stepan E., Velea S., Oprescu E.- E., Vasilievici Gabriel; Radu E., Radu Adrian, 2018, Catalizator bazic heterogen pentru obţinerea esterilor metilici, procedeu de obţinere al acestuia şi procedeu de obţinere a esterilor metilici ai acizilor graşi, Ro Patent 130749 B1.	naţional	6	1	0,166
5	Stepan E., Velea S., Oancea F., Oprescu E.-E., Bomboş M., 2018, Catalizator pentru obţinerea esterilor metilici ai acizilor graşi şi procedeu pentru obţinerea acestui catalizator", RO Patent 130689B1.	naţional	5	1	0,2
6	Stepan E., Velea S., Vasilievici G., Radu E., Radu A., Oprescu E., Enăşcuţă C., 2018. „Diesel biofuel based on furfurylidene glycerol derivatives and process for producing the same", RO Patent Patent 131,789.	naţional	7	1	0,142
7	Velea S., Bombos M., Doukeh R., Vasilievici G., Bombos D., Oprescu E.-E., Calin C., Catalizator pe bază de Mo şi procedeu de piroliză lentă a biomasei pe acest catalizator, Osim. /29.11.2021	naţional	7	1	0,142
Indicatorul FIC (din brevete)					**1,232**

5. Lista citărilor lucrărilor publicate (indicatorul NC)

S-au luat in considerare citările din baza de date SCOPUS. ***Autocitarile au fost excluse din calculul numarului total de citari. NC:178***

6. NCO ≥ 1 (in calitate de Director proiect)

Proiect de cercetare - Director proiect "Value added products from microalgae biomass applying biorefinery concepts" (2020-2022 - 181 TE /2020), valoare proiect 431900 lei.

Dată 18.07.2022

Conf. dr.chim. Oprescu Elena-Emilia

Anexa 1

Kinetic Adsorption of Humic Acids Mixture Obtained from Microalgae on Exfoliated Graphite Nanoplatelets

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[2]University Politehnica of Bucharest, 313 Splaiul Independentei, 060042, Bucharest, Romania.

[3]Petroleum-GasUniversity of Ploiesti, Faculty of Petroleum Refining and Petrochemistry, 39 Bucharest Blvd., 100680, Ploiesti, Romania

[4]University of Agronomic Sciences and Veterinary Medicine, Faculty of Agriculture, 59 Marasti Blvd., 011464, Bucharest, Romania

The dehydration of polysaccharides fraction in the presence of acid catalysts, is a chemical process in which results as secondary product humic matter. In our work, the humic acid mixture was for the first time based on our knowledge extracted from defatted microalgae biomass rich in polysaccharides by standard alkali treatment, followed by precipitation at acidic pH. The dried humic acid mixture has been characterized using infrared spectroscopic measurements (FT-IR). Exfoliated graphite nanoplatelets (xGnP) were used as new adsorbents for this type of humic acids mixture, their adsorption being investigated. The effect of several paraneters such as: contact time, concentration of humic acid mixture, concentration of xGnP, temperature and pH of the solutions were studied. The process of adsorption took place with good results, in the following conditions: at a concentration of humic acid mixture of 18.6 mg L^{-1}, an xGnP amount of 0.01 mg in 25 mL of solution, at a temperature of 25 °Ñ and at acidic pH values, in aqueous solution.

Keywords: defatted algal biomass, polysaccharides, humic acids mixture, exfoliated graphite nanoplatelets, adsorption

In recent years, biomass is known to gain high potential as renewable feedstock for chemical production. Humic substances (HS) can be divided into three components: fulvic acids (FAs), humic acids (HAs) and humins. One of the most important parts of humic substances is the HAs mixture. Humic and fulvic acids represent alkali-soluble fractions, meanwhile humins represents the insoluble residue due to the own molecular structure. The mechanisms of the formation of HS can be slightly different and depending on geographical, climatic, physical and biological circumstances, these compounds can be made up in several ways [1]. HAs represent the most important components of the HS that help the transfer of micronutrients from soil to plants, promote the water retention, increase seeds germination and improve soil fertility [2], having excellent sorption properties for reducing available contaminants from the soil, too [3].

Carbon nanomaterials (CNMs) have become candidates for numerous applications in nanocomposites, microelectric devices, sensors, energy storage, microelectronics, biomedicines, and mechanical resonators [4]. Among these, exfoliated graphite nanoplateletes (xGnP) have recently attracted attention due to their great potential for retention of environmental contaminants [5]. However to maximize the advantage of exfoliated graphite nanoplateletes (e.g., as effective adsorbents in water), they should not form aggregates and must be well dispersed, so that dispersed and stabilized CNMs in solution can greatly increase the interaction of CNMs with, for example, contaminants in solutions. In our previous study [6] it was shown that the presence of humic acids improves the dispersability and the stability of several carbon nanomaterials. Based on these aspects it can be supposed that their sorption capacity might increase in environmental samples and these nanomaterials can be further used as new sorbents for environmental contaminants.

Therefore, in this study the synthesis of a new adsorbent with high affinity for several pollutants from the environment is proposed. The new sorbent it is based on functionalized exfoliated graphite nanoplatelets with high dispersability due to the interactions of HAs mixture with the hydrophobic xGnP surfaces. To the best of our knowledge it is the first time when these carbon based nanostructures are used as sorbents for humic acids mixture in order to estimate the effect of these organic acids over their sorption capacity.

Experimental part

Materials and methods

Reagents and materials

All reagents were analytical-grade and were used as received. Deionised distilled water was used in all experiments. All experiments in this work were carried out at a temperature of 25 ± 1°Ñ and at atmospheric pressure. Commercial exfoliated graphite nanoplatelets (xGnP) were purchased as powder from XG Sciences, Inc, Michigan, US. The thick graphite platelets with the following structure characteristics: length <10 nm, average diameter around 15 μm and surface area of 100 m^2/g, were provided from XG Sciences, Inc. East Lansing, MI 48823 [7].

Microalgae cultivation and algal oil extraction

The microalgae *Nannochloris sp.* 424-1, original strain cod CCAP/10 (Culture Collection of Algae and Protozoa, Scottish Marine Institute, Scotland), were grown on mixotrophic conditions with glycerin as additional source of organic carbon, to improve biomass production, and with voluntary stress conditions by reducing inorganic nitrogen from medium, in order to increase lipids and carbohydrates

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Tabel cu lista citărilor lucrărilor publicate (indicatorul NC)

Nr. crt.	Lucrarea citată	Lucrarea care citează	Adresa web a lucrării care citează
1.	**Oprescu, E.-E.,** Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, **Renewable Energy**, 2021, 176, p. 651-662, ISSN 09601481	Wang, H., Wang, Y., Huang, L., Geng, Anying;Yi, Fengjiao, Zhu, Y., Li, Y., Continuous production of 1,4-pentanediol from ethyl levulinate and industrialized furfuryl alcohol over Cu-based catalysts, 2022, Sustainable Energy and Fuels, 6(10), pp. 2449-2461	https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85131681022&origin=resultslist&sort=plf-f&cite=2-s2.0-85107151584&src=s&imp=t&sid=54d3d095f36d57100f6b7dd8495564b7&sot=cite&sdt=a&sl=0&relpos=0&citeCnt=1&searchTerm=
2.	**Oprescu, E.-E.,** Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, **Renewable Energy**, 2021, 176, p. 651-662, ISSN 09601481	Ye, B., Zhang, W., Zhou, R., Jiang, Yuanyuan, Zhong, Z., Hou, Z., Dehydration of fructose to 5-hydroxymethylfurfural over a mesoporous sulfonated high-crosslinked polymer in different solvents, 2022, New Journal of Chemistry, 46(14), pp. 6756-6764	https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85128123510&origin=resultslist&sort=plf-f&cite=2-s2.0-85107151584&src=s&imp=t&sid=54d3d095f36d57100f6b7dd8495564b7&sot=cite&sdt=a&sl=0&relpos=1&citeCnt=0&searchTerm=
3.	**Oprescu, E.-E.,** Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, **Renewable Energy**, 2021, 176, p. 651-662, ISSN 09601481	Di Menno Di Bucchianico, D., Wang, Y., Buvat, J.-C., Pan, Yong, Casson Moreno, V., Leveneur, S., Production of levulinic acid and alkyl levulinates: A process insight, 2022, Green Chemistry, 24(2), pp. 614-646	https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85123695100&origin=resultslist&sort=plf-f&cite=2-s2.0-85107151584&src=s&imp=t&sid=54d3d095f36d57100f6b7dd8495564b7&sot=cite&sdt=a&sl=0&relpos=2&citeCnt=3&searchTerm=
4.	**Oprescu, E.-E.,** Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, **Renewable Energy**, 2021, 176, p. 651-662, ISSN 09601481	Tian, Y., Zhang, F., Wang, J., Cao, L., Han, Q., A review on solid acid catalysis for sustainable production of levulinic acid and levulinate esters from biomass derivatives, 2021, Bioresource Technology, 342, p. 125977	https://www-scopus-com.am.e-nformation.ro/results/citedbyresults.uri?sort=plf-f&refeid=2-s2.0-85107151584&src=s&imp=t&sid=5da04714942e207db3ac58835225f412&sot=ctocbw&sdt=a&sl=16&s=PU

			BYEAR+BEF+2024&origin=cto&citeCnt=2_DELIM_2_DELIM_CTODS_1401913098_DELIM_1&txGid=df0ec0e728d022a3b4c186e9e6b090e4
5.	Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, **Renewable Energy**, 2021, 176, p. 651-662, ISSN 09601481	Cao, M., Zhu, J., Fu, H., Loic, H.Y.F., Response surface design of bellows parameters with negative pressure shrinkage performance, 2022, International Journal on Interactive Design and Manufacturing, Article in Press	https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85122353332&origin=resultslist&sort=plf-f&cite=2-s2.0-85107151584&src=s&imp=t&sid=54d3d095f36d57100f6b7dd8495564b7&sot=cite&sdt=a&sl=0&relpos=3&citeCnt=1&searchTerm=
6.	Marinescu, Mihai;Popovici, Daniela Roxanaa;Bombos, Dorin;Vasilievici, Gabriel;Rosca, Paul; **Oprescu, Elena-Emilia**;Bolocan, Ion, Hydrodeoxygenation and hydrocracking of oxygenated compounds over CuPd/γ-Al2O3–ZSM-5 catalyst, 2021, Reaction Kinetics, Mechanisms and Catalysis, 133(2), p. 1013 – 1026, ISSN 18785190	Ishihara, A., Kobayashi, M., Hashimoto, T., Dehydrocyclization-cracking of soybean oil using β-zeolite-Al2O3 hierarchical composite-supported Pt, Pd, CoMo, and NiMo sulfide catalysts, 2021, Biomass Conversion and Biorefinery, Article in Press	https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85114631269&origin=resultslist&sort=plf-f&cite=2-s2.0-85111093233&src=s&imp=t&sid=37a92bab1232b0b98cbd4451d4c51a65&sot=cite&sdt=a&sl=0&relpos=2&citeCnt=0&searchTerm=
7.	Marinescu, Mihai;Popovici, Daniela Roxanaa;Bombos, Dorin;Vasilievici, Gabriel;Rosca, Paul;**Oprescu, Elena-Emilia**;Bolocan, Ion, Hydrodeoxygenation and hydrocracking of oxygenated compounds over CuPd/γ-Al2O3–ZSM-5 catalyst, 2021, Reaction Kinetics, Mechanisms and Catalysis, 133(2), p. 1013 – 1026, ISSN 18785190	Liu, X., Ma, J., Wang, M., Yuan, H., Synthesis of mesoporous Pt@KIT−6/SAPO−11 VIA in situ encapsulation to catalyze the decarboxylation of oleic acid to C8–C17 alkanes, 2022 Journal of Chemical Technology and Biotechnology, Article in Press	https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85127965361&origin=resultslist&sort=plf-f&cite=2-s2.0-85111093233&src=s&imp=t&sid=37a92bab1232b0b98cbd4451d4c51a65&sot=cite&sdt=a&sl=0&relpos=1&citeCnt=0&searchTerm=
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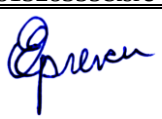

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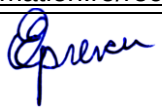

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Nr. înregistrare Contractor 2125/30.10.2020 Nr. înregistrare UEFISCDI _____

CONTRACT DE FINANȚARE PENTRU EXECUȚIE PROIECTE

NR. TE 181/2020

NUMAR INREGISTRARE UEFISCDI 2590 04.11.2020

Finanțare:	bugetul de stat
Denumirea Programului din PN III:	Programul 1 - Dezvoltarea sistemului național de cercetare-dezvoltare
Subprogram:	Subprogramul 1.1 - Resurse umane
Tip proiect:	Proiecte de cercetare pentru stimularea tinerelor echipe independente
Titlul proiectului:	Produse cu valoare adăugată din biomasă microalgala aplicând concepte de biorefinare
Valoarea totală a Contractului:	431.900,00 lei
Din care, pe surse:	
Sursa 1 - de la bugetul de stat:	431.900,00 lei
Sursa 2 - din alte surse atrase (cofinanțare)[1]:	0,00 lei
Durata Contractului:	24 luni
Nr. de pagini ale Contractului:	19 pagini
Autoritatea Contractantă:	Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării
Contractor:	Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie - ICECHIM Bucuresti

Semnături:

De acord pentru Contractor

La Bucuresti,Bucuresti - Sector 6
Data _____

Institutul National de Cercetare-Dezvoltare pentru Chimie si Petrochimie - ICECHIM Bucuresti

Director General
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Director de proiect
Dr.chim. Elena-Emilia Oprescu

Director Economic
Ec. Magda-Aura CANTACUZ

Consilier juridic
Consilier juridic Anca Carpan

De acord pentru Autoritatea Contractantă

La București
Data _____

Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării

Director general UEFISCDI,
Adrian CURAJ

pentru Director Economic,
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MINISTERUL EDUCAȚIEI ȘI CERCETĂRII U.E.F.I.S.C.D.I. VIZAT PENTRU CONTROL FINANCIAR PREVENTIV PROPRIU Nr. 1 Data aplicării vizei: 2020 11 05

[1] Doar pentru tipurile de proiecte care implică și cofinanțare