|  |
| --- |
| **UNIVERSITATEA PETROL-GAZE DIN PLOIEŞTI****FACULTATEA: TEHNOLOGIA PETROLULUI ŞI PETROCHIMIE****DEPARTAMENTUL: CHIMIE****LISTA DE LUCRĂRI****Șef lucrări dr. chim. GHEORGHE CĂTĂLINA GABRIELA**1. **Lista celor 10 lucrări relevante (Articole publicate în reviste indexate ISI)**
2. **C. G. Gheorghe**, C M Dușescu-Vasile , D. R Popovici, D. Bombos; R.-E. Dragomir; F. M. Dima; M. Bajan; G.l Vasilievici, 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>
3. D. R Popovici, **C. G. Gheorghe**, C M Dușescu-Vasile [Assessment of the Active Sludge Microorganisms Population During Wastewater Treatment in a Micro-Pilot Plant](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:QIV2ME_5wuYC) Bioengineering,2024, 11 (12), 1306,<https://doi.org/10.3390/bioengineering11121306>
4. V.Gheorghe, **C. G. Gheorghe**, D. R. Popovici, S. Mihai, R. E. Dragomir, R.Somoghi, 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>
5. V. Gheorghe, **C. G. Gheorghe,** D.R. Popovici , S..Mihai., C. Calin., E. Sarbu, R.Doukeh, N. Grigoriu, C. N. Toader, C. .Epure, V. Matei -Synthesis, Purity Check, Hydrolysis and Removal of o-Chlorobenzyliden Malononitrile (CBM) by Biological Selective Media, Toxics, 2023, 11(8), 672, <https://doi.org/10.3390/toxics11080672>
6. V Gheorghe, **C. G. Gheorghe**, A Bondarev, R Somoghi, [Ecotoxicity of o-Chlorobenzylidene Malononitrile (CBM) and Toxicological Risk assessment for SCLP Biological Cultures (*Saccharomyces* sp., *Chlorella* sp., *Lactobacillus* sp](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=XULYmn0AAAAJ&citation_for_view=XULYmn0AAAAJ:2osOgNQ5qMEC), *Paramecium* sp.), Toxics, 2023, Volume 11, Issue 3, 285, <https://doi.org/10.3390/toxics11030285>
7. **C. G. Gheorghe**, A.Bondarev, I. Onutu Assessement of Water Quality Parameters in Some Potential Pollutant Areas from Romania REV.CHIM.(Bucharest), 69 (8), 2018 pag 2045-2049 <http://dx.doi.org/10.37358/RC.18.8.6470>
8. **C. G. Gheorghe**, C.M. Dusescu, M Carbureanu [Asphaltenes biodegradation in biosystems adapted on selective media](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=E8lHDXAAAAAJ&citation_for_view=E8lHDXAAAAAJ:W7OEmFMy1HYC) Revista de Chimie, 67(10), 2016, 2106-2110, ISSN 0034-7752
9. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea Testing of bacterial and fungal selection în the pollution of water with cationic detergents, Revista de Chimie, nr 62 (7), 2011, 707-711, ISSN 0034-7752
10. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea Testing the behavior of pure bacterial suspension (*Bacillus subtilis, Pseudomonas aeruginosa* and *Micrococcus luteus*) în case of hydrocarbons contaminators, Revista de Chimie, 62(9):2011, 926-929, ISSN 0034-7752
11. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea Research on the influence of diesel oil on the bacterial stems of *Bacillus subtilis* and *Pseudomonas aeruginosa*, Revista de Chimie, 62(5), 2011, 582-584 , ISSN 0034-7752

1. **Teza de doctorat**
	1. **Procese biologice selective pentru epurarea apelor contaminate cu reziduuri industriale** – Universitatea Petrol-Gaze din Ploiești, 2011
2. **Cărți și capitole în cărți, culegeri și indrumare**
	1. **C. G. Gheorghe** V. Matei [*Microbiologie si ecotoxicologie*](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:7PzlFSSx8tAC) *Lucrari de laborator*, Ed. Universitatea Petrol-Gaze din Ploiești, 2012, ISBN 978-973-719-466-4
	2. **C. G. Gheorghe** A.Bondarev [*Microbiologie si ecotoxicologie*](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:7PzlFSSx8tAC) *Lucr***ă***ri de laborator* Editia a II-a, Ed. Universitatea Petrol-Gaze din Ploiești, 2019, ISBN 978-973-719-773-3
3. **Articole/studii in extenso publicate în reviste din fluxul științific internațional;**
	1. **C. G. Gheorghe**, C M Dușescu-Vasile , D. R Popovici, D. Bombos; R.-E. Dragomir; F. M. Dima; M. Bajan; G.l Vasilievici, 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>
	2. D. R Popovici, **C. G. Gheorghe**, C M Dușescu-Vasile [Assessment of the Active Sludge Microorganisms Population During Wastewater Treatment in a Micro-Pilot Plant](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:QIV2ME_5wuYC) Bioengineering,2024, 11 (12), 1306,<https://doi.org/10.3390/bioengineering11121306>
	3. A Bondarev, S. Mihai, A.Usman, D. Cursaru, D Matei, V Satulu, **C. G. Gheorghe**, G.Branoiu, R. Somoghi A facile microwave promoted formation of highly photoresponsive Au-decorated TiO2 nanorods for the enchanced photo-degradation of methylene blue, Nanomaterials, ***2024***, *14*(22), 1780 <https://doi.org/10.3390/nano14221780>
	4. V.Gheorghe, **C. G. Gheorghe**, D. R. Popovici, S. Mihai, R. E. Dragomir, R.Somoghi, 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>
	5. V. Gheorghe, **C. G. Gheorghe,** D.R. Popovici , S..Mihai., C. Calin., E. Sarbu, R.Doukeh, N. Grigoriu, C. N. Toader, C. .Epure, V. Matei -Synthesis, Purity Check, Hydrolysis and Removal of o-Chlorobenzyliden Malononitrile (CBM) by Biological Selective Media, Toxics 2023, 11(8), 672, <https://doi.org/10.3390/toxics11080672>
	6. V Gheorghe, **C. G. Gheorghe**, A Bondarev, R Somoghi, [Ecotoxicity of o-Chlorobenzylidene Malononitrile (CBM) and Toxicological Risk assessment for SCLP Biological Cultures (*Saccharomyces* sp., *Chlorella* sp., *Lactobacillus* sp](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=XULYmn0AAAAJ&citation_for_view=XULYmn0AAAAJ:2osOgNQ5qMEC), *Paramecium* sp.), Toxics 2023, Volume 11, Issue 3, 285, <https://doi.org/10.3390/toxics11030285>
	7. Bondarev, **C. G. Gheorghe** Adsorptive removal of crystal violet dye from aqueous solutions using natural resource systems, Desalination and Water Treat , 2022, 264,215-232 <http://dx.doi.org/10.5004/dwt.2022.28560>
	8. V Gheorghe, **C. G. Gheorghe**, A Bondarev, CN Toader, M Bomboş -[The contamination effects and toxicological characterization of o-chlorobenzylidene manolonitrile](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=XULYmn0AAAAJ&citation_for_view=XULYmn0AAAAJ:d1gkVwhDpl0C), Rev. Chim 71 (12), 67-75, 2021, <https://doi.org/10.37358/Rev.Chim.1949>
	9. A Bondarev, **C. G. Gheorghe**, V Gheorghe, M Bombos, [Removal of dyes from textile wastewater using sawdust as low-cost biosorbent](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=XULYmn0AAAAJ&citation_for_view=XULYmn0AAAAJ:u-x6o8ySG0sC) Revista de Chimie 71 (3), 387-396, 2020, <https://doi.org/10.37358/Rev>
	10. V Gheorghe, **C. G. Gheorghe** A Bondarev, V Matei, M Bombos [The Malachite Green Biodegradation in Bioreactors on Various pH Domains](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=XULYmn0AAAAJ&citation_for_view=XULYmn0AAAAJ:u5HHmVD_uO8C), Revista de chimie 70 (8), 2996-2999, 2019 <http://dx.doi.org/10.37358/RC.19.8.7472>
	11. **C. G. Gheorghe**, A.Bondarev, I. Onutu Assessement of Water Quality Parameters in Some Potential Pollutant Areas from Romania REV.CHIM.(Bucharest) 69 (8), 2018 pag 2045-2049 <http://dx.doi.org/10.37358/RC.18.8.6470>
	12. A.Bondarev, **C. G. Gheorghe** Waste biomass as biosorbent for lead removal from aqueous solutions, International Journal of Sciences and Applied Research, **4**(8),2017; pag 83-92
	13. Mihai, O Pantea, D Popovici**, C. G. Gheorghe** Evaluation of Metal Contents in Correlation with Phytosanitary Treatments at Vineyard REV.CHIM.(Bucharest) 68 (6), 2017 pag 1387-1391 <https://doi.org/10.37358/rc.17.6.5659>
	14. M Carbureanu, Sf Mihalache, **C. G. Gheorghe,** [A hardware ann-based controller for ph neutralization in industrial plants](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=E8lHDXAAAAAJ&citation_for_view=E8lHDXAAAAAJ:Y0pCki6q_DkC), Revista de chimie, 67 (7), 2016, 1309-1313 , ISSN 0034-7752
	15. A Bondarev, O Pantea, S Mihai, C Calin, **C. G. Gheorghe,** [Removal of cadmium from aqueous solutions using low cost sorbents](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=E8lHDXAAAAAJ&citation_for_view=E8lHDXAAAAAJ:Tyk-4Ss8FVUC), Revista de Chimie, 67(4) 2016 , 728-733, ISSN 0034-7752
	16. **C. G. Gheorghe**, C Dusescu, M Carbureanu [Asphaltenes biodegradation in biosystems adapted on selective media](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=E8lHDXAAAAAJ&citation_for_view=E8lHDXAAAAAJ:W7OEmFMy1HYC) Revista de Chimie, 67(10), 2016, 2106-2110, ISSN 0034-7752
	17. F. Nicolescu, F. Lupu, O.Pantea, **C. G. Gheorghe**, A. Bondarev, C. Calin Toxicity study of benzene, toluene and xylene (btx) at exposure on some experimental groups REV. CHIM. (Bucharest) 66 (8), 2015, 1181-1183, ISSN 0034-7752
	18. E. Grigore, O. Pantea, D. Bombos, C. Calin, A. Bondarev, **C. G. Gheorghe**  Effect of inhibitors based amine derivates on some carbon steel corrosion, Revista de Chimie, (Bucharest) 66(5) 2015, 685-690, ISSN 0034-7752
	19. M. Carbureanu, **C. G. Gheorghe** -pH variation in the presence of the coagulants used in oil-well industry wastewater treatment REV. CHIM. **2014** , 65(12), 1498-1501, ISSN 0034-7752 WOS:000345946400021
	20. F. Lupu, **C. G. Gheorghe**, C. Calin, O. Pantea, Biotreatment of the oil pollutants, Revista de Chimie, 64 (2), 2013, 210-212, ISSN 0034-7752
	21. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea [The Efficiency of Flocculants in Biological Treatment with Activated Sludge](http://bch.ro/pdfRC/GHEORGHE%20C.pdf%2010%2011.pdf) Revista de Chimie, nr 62(10), **2011**, 1023-1026 , ISSN 0034-7752 WOS:000296933300014
	22. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea Testing the behavior of pure bacterial suspension (*Bacillus subtilis, Pseudomonas aeruginosa* and *Micrococcus luteus*) în case of hydrocarbons contaminators, Revista de Chimie, 62(9):2011, 926-929, ISSN 0034-7752
	23. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea Testing of bacterial and fungal selection în the pollution of water with cationic detergents, Revista de Chimie, nr 62 (7), 2011, 707-711, ISSN 0034-7752
	24. **C. G. Gheorghe**, O. Pantea, V. Matei, D. Bombos, A.F. Borcea Testing the biodegradation of contaminated water with petroleum products through convenţional treatment în comparison with treatment through biological sludge enriched with activated charcoal, Revista de Chimie, **2011**, 62 (6), 655-658, ISSN 0034-7752 WOS:000292629400013
	25. **C. G. Gheorghe**, O.Pantea, V. Matei, D. Bombos, A.F. Borcea Research on the influence of diesel oil on the bacterial stems of *Bacillus subtilis* and *Pseudomonas aeruginosa*, Revista de Chimie, 62(5), 2011, 582-584 , ISSN 0034-7752
4. **Publicații apărute în lucrări ale conferințelor internaționale de specialitate**
	1. **C. G. Gheorghe** C. M. Dusescu Vasile, D. R. Popovici Removing of emerging contaminants from aquifers environments trough bioconversions Main direction of ensuring sustenable development:Contmporary issues of ecological education and environmental protection Magtymguly Turkmen State University, 2025 (4)
	2. **C. G. Gheorghe** C. M. Dusescu Vasile, D. R. Popovici [Quantification of the degree of toxicity of an organic substance on algal cultures](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:dhFuZR0502QC) Revista Institutului de Cercetare-Dezvoltare pentru Ecologie Acvatică  Pescuit și Acvacultură Simpozionul Utilizarea algelor pentru o acvacultură durabilă– 51, 2024, vol 2, p. 89, ISSN 3061
	3. V.Gheorghe**, C. G. Gheorghe**, [Screening behavioral responses of certain microorganisms to CBM toxic used in military and law enforcement operations](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:Wp0gIr-vW9MC), 5 th International Colloquium Energy and Environmental Protection, 2023, Ploiesti;
	4. V. Gheorghe, **C. G. Gheorghe**, A Bondarev, C. N. Toader, [Growth kinetic of SPLC-cultures for CBM and toxicological risk assesment](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&citation_for_view=NY61ruUAAAAJ:qxL8FJ1GzNcC) Catalysis, Chemical Engineering and Technology, 2023, Tokyo, Japan 15-th Edition;
	5. A Bondarev, **C. G. Gheorghe** [The Use of Lignin for Environmental Protection: An Overview of Recent Literature](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:Zph67rFs4hoC) The Annals of “Dunarea de Jos” University of Galati. Fascicle IX, Fascicle IX, Metallurgy and Materials Science, 2022, 45 (1) p5-8
	6. **C. G. Gheorghe**, V. Gheorghe, A. Bondarev [Environmental Bioremediation-the malachit green adsorption in bioreactors on various pH domains](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=XULYmn0AAAAJ&citation_for_view=XULYmn0AAAAJ:9yKSN-GCB0IC) Journal of Petroleum & Environmental Biotechnology, 2018, (ISSN: 2157-7463), 86, Roma, DOI: 10.4172/2157-7463-C2-044.
	7. A Bondarev, **C. G. Gheorghe** [Biosorption, a green approach for heavy metal removal from water](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:UebtZRa9Y70C) International Colloquium Energy and Environmental Protection, 2018, 14 (11)
	8. S. Mihai A. Bondarev, **C. G. Gheorghe** [Adsorptive Bioremediation of Petroleum Refinery Wastewater Effluent](https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=NY61ruUAAAAJ&cstart=20&pagesize=80&citation_for_view=NY61ruUAAAAJ:kNdYIx-mwKoC) 8th International Conference on Petroleum Engineering & 9th International Conference and Expo on Oil and Gas, 2018, 10(15), ISSN: 2157-7463
	9. F. Lupu, C. G. Gheorghe,O. Pantea Biodegradation of toxic contaminants coming from petroleum residues through biotreatment, The 9th international conference OPROTECH, “Vasile Alecsandri” University of Bacau, 24-26 mai 2011
5. **Alte lucrări și contribuții științifice**
	1. **C. G. Gheorghe,** N. Naum Depoluarea apelor impurificate cu produse petroliere prin metoda cu namol activ in prezenta speciilor Zooglee ramigera si Paramecium sp. Buletinul Universitatii Petrol-Gaze din Ploiesti,2005, SeriaTehnica nr 2, 57, Editura UPG
	2. V. Popa, I. Codita, V. Ungureanu, **C. G. Gheorghe** Research regarding to the use and in vitro testing of antibiotic association in veterinary medecine", Avicol magazine / Bulletin of Romanian Veterinary Society in Avian and Small Animal Pathology 3: 5 – 11, Anul 7, nr.2 (29), 2010, ISSN 1841 – 0472.

**Membru in Contracte de cercetare/Proiecte** * + - 1. **Dezvoltarea de ambalaje alimentare inovative fără impact negativ asupra mediului ambiant**”, acronim **AMBAL-INOV, My SMIS**: 120994, Contract:375/390051 / 30.09.2021, Competitia 63/POC/163/1/3/LDR, S.C. MEDACRIL S.R.L.
			2. GO-GICS nr. 30757/11.12.2024- cu tema: **-DEZVOLTAREA UNOR SISTEME POLIMERICE BIODEGRADABILE**- beneficiar Universitatea Petrol-Gaze din Ploiești;;
			3. 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;
			4. **CN FIS-FDI-2025-F-0199-Viața de student la UPG-Facilitarea accesului tinerilor ce provin din medii defavorabile la invățămantul superior Prahovean**

Data Semnatura16.06.2025 |