

Sef lucrari dr.ing. SIBEL (GEACAI) OSMAN

**LISTA LUCRĂRILOR PUBLICATE
PARTICIPARI LA CONFERINȚE**

Teza de doctorat

„Proprietății fizico-chimice în sisteme binare și ternare cu biodiesel”,
Universitatea Politehnica din București,
Titlul de doctor in domeniul chimie din anul 2014 (2008-2014)
Conducator de doctorat **Prof. emerit dr. ing. Olga Iulian**
Calificativul-„foarte bine”

Cărți publicate

1. **Sibel Osman**, Nița Irina, Termodinamică chimică-Indrumar de laborator, ed. Ovidius „University” Press, ISBN 978-973-614-907-8, 156 pg., Constanța 2016

Capitole de carte publicate în editură internațională

1. Mert Gulum, **Sibel Osman**, Measurement of some fuel properties of diesel fuel-2-ethylhexyl nitrate and gasoline-acetone blends, Advances in Engineering Sciences, Editor: Prof. Gül den Başığ it Kılıç, Ph.D. Platanus Publishing, Publisher’s Certificate No 45813, ISBN 978-625-6454-09-5, Ankara, Turkey, 2023, DOI:10.5281/zenodo.1002474
2. Mert Gulum, **Sibel Osman**, Assessing the Effect of Hexanol and Di-n-Butyl Ether on Diesel Fuel Characteristics, New frontiers in engineering, Editors: Assoc. Prof. Bayram Akdemir, Assist Prof. Umut Özkaya, Duvar Yayınları, Publisher Certificate No: 49837, ISBN: 978-625-6585-18-8, İzmir, Turkey, 2023
<https://www.duvar yayinlari.com/icerik/e-kitaplar/new-frontiers-in-engineering-editors-assoc-prof-bayram-akdemir-assist-prof-umut-ozkaya>

Articole în reviste cotate ISI cu factor de impact

1. **S. Osman**, A. Stefaniu*, Density, Viscosity, and Distillation Temperatures of Binary Blends of Diesel Fuel Mixed with Oxygenated Components at Different Temperatures, Sustainability 2023, 15, 15460. **IF: 3.9, Q2**
<https://doi.org/10.3390/su152115460>
2. **S. Osman**, O. V. Sapunaru* , A. E. Sterpu , T. V. Chis and C. I. Koncsag, “Impact of Adding Bioethanol and Dimethyl Carbonate on Gasoline Properties”, Energies, vol. 16, 1940, 2023, doi.org/10.3390/en16041940, **IF: 3.252, Q3**
<https://www.mdpi.com/journal/energies>
3. I. Nita*, O. Iulian, **S. Osman**, T. Chis, “Measurements and Correlation of the Viscosity of Isopropanol Mixtures with Diesel Fuel and Biodiesel“, STUDIA UBB CHEMIA, LXVII, Jun2022, vol. 67 Issue 2, pp. 7-21, 2022, DOI:10.24193/subbchem.2022.2.01, **IF: 0.558, Q4**

13. *I. Niță, E. Geacai, S. Osman**, *O. Iulian*, “Study of the influence of alcohols addition to gasoline on the distillation curve, vapor pressure”, Ovidius University Annals of Chemistry, vol. 30, no.2, 2019, pp.122-26, ISSN-1223-7221, DOI: 10.2478/auoc-2019-0022, <https://content.sciendo.com/view/journals/auoc/30/2/article-p122.xml>
14. *Sandu G-R., I. Nita**, *S. Osman*, *O. Iulian*, Study on the density of diesel fuel+isopropanol and biodiesel+isopropanol pseudo-binary systems, U.P.B. Sci. Bull., Series B, vol. 80, no.1, 2018, pp.87-100, ISSN 1454-2331 https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullc43_436231.pdf
15. *E. Geacai, I. Niță, S. Osman**, *O. Iulian*, Effect of n-butanol addition on density and viscosity of biodiesel, U.P.B. Sci. Bull., Series B, vol. 79, no.1, 2017, pp.11-24, ISSN 1454-2331 https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez049_134280.pdf
16. *I. Nita, E. Geacai, O. Iulian, S. Osman**, “Study of the refractive index of gasoline+alcohol pseudo-binary mixtures”, Ovidius University Annals of Chemistry, vol. 28, no.1, 2017, pp.18-24, ISSN-1223-7221, B+. doi: 10.1515/auoc-2017-0004 <https://www.degruyter.com/view/j/auoc.2017.28.issue-1/auoc-2017-0004/auoc-2017-0004.xml>

Articole în reviste indexate BDI

1. *S. Geacai, I. Niță, O. Iulian, E. Geacai*, Refractive indices for biodiesel mixtures, U.P.B. Sci. Bull., Series B, vol. 74, no.4, 2012, pp.149-160, ISSN 1454-2331, B+. http://www.scientificbulletin.upb.ro/rev_docs_arhiva/fulle5e_188565.pdf
2. *A. Neagu, I. Niță, E. Botez and S. Geacai*, “A physico-chemical study for some edible oils properties”, Ovidius University Annals of Chemistry, vol. 24, no.2, 2013, pp.121-126, ISSN -1223-7221, B+. <http://www.degruyter.com/view/j/auoc.2013.24.issue-2/auoc-2013-0020/auoc-2013-0020.xml>
3. *I. Niță, S. Geacai, A. Neagu, E. Geacai*, “Estimation of the refractive index of diesel fuel+biodiesel blends”, Ovidius University Annals of Chemistry, vol. 24, no.1, 2013, pp.24-26, ISSN-1223-7221, B+. <https://www.degruyter.com/view/j/auoc.2013.24.issue-1/auoc-2013-0005/auoc-2013-0005.xml>
4. *I. Niță, S. Geacai*, “Study of density and viscosity for ternary mixtures biodiesel+diesel fuel + bioalcohols”, Ovidius University Annals of Chemistry, vol. 23, no. 1, 2013, pp.58-62, ISSN-1223-7221, B+. <https://www.degruyter.com/view/j/auoc.2012.23.issue-1/v10310-012-0009-2/v10310-012-0009-2.xml>
5. *I. Niță, S. Geacai*, “Study of the density and viscosity variation with temperature for fuels used for Diesel engine”, Ovidius University Annals of Chemistry, vol. 22, no.1, 2011, pp. 57-61, ISSN-1223-7221, B+. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.227.6830&rep=rep1&type=pdf>

6. *I. Niță, A. Neagu, S. Geacai, A. Dumitru, A. Sterpu*, „Study of the behavior of some vegetable oils during the thermal treatment”, *Ovidius University Annals of Chemistry*, vol.21, no.1, 2010, pp. 5-8, ISSN-1223-7221, B+.
http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2010-1/full/1_nita.pdf

Publicații în extenso

apărute in volume ale conferințelor internaționale cotate ISI (proceedings ISI)

1. *I. Niță**, *O. Iulian, E. Geacai, S. Osman*, Physico-chemical properties of the pseudo-binary mixture gasoline + 1-butanol, *The International Scientific Conference on Environmental and Climate Technologies – CONECT 2015*, 14-16 october 2015, Riga, Latvia, *Energy Procedia*, vol. 95, 2016, pp. 330 – 336, ISSN: 1876-6102. DOI information: 10.1016/j.egypro.2016.09.017
<http://www.sciencedirect.com/science/article/pii/S1876610216306567>
2. *Mert Gülüm, Sibel Osman*, Diethyl Ether as an Additive for Improving Cold Flow Properties of Diesel Fuel/Biodiesel Blends, *Proc. 2023 International Conference on Advances in Multidisciplinary Engineering, Sciences and Technology (ICAMEST)*, 29-30 September 2023, Dubai, UAE, 2023, pp 53-59, ISNI 0000000512511788
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Publicații în extenso

apărute in volume ale conferințelor internaționale de specialitate

3. *I. Niță, S. Geacai, O. Iulian, E. Geacai*, “Density-refractive index new correlations for biodiesel blends”, *The 18th Romanian Int. Conf. on Chem. and Chem. Eng (RICCCE 18)*, 4-7 sept. 2013, Sinaia, Romania, S3, pp.28-31, ISSN 2344-1895.
4. *S. Geacai, I. Niță, O. Iulian, E. Geacai, A. Ștefaniu*, “Physico-chemical properties of mixtures with biodiesel, diesel fuel, benzene and toluene”, *The 20th Int. Congress of Chem. and Process Eng.(CHISA 2012)*, 25–29 aug 2012, Praga, Czech Rep., P1.72, 7 pag, CD, (Serial Number: 1143) ISBN CD ROM of full texts: 978-80-905035-1-9.
5. *A. Ștefaniu, O. Iulian, S. Geacai*, “Volumetric and viscometric analysis for L-histidine in aqueous NaCl solutions at different temperatures”, *The 20th Int. Congress of Chem. and Process Eng.(CHISA 2012)*, 25 – 29 aug 2012, Praga, Czech Rep., P1.87, 6 pag, CD, (Serial Number: 1386) ISBN CD ROM of full texts: 978-80-905035-1-9.
6. *S. Geacai, I. Niță, O. Iulian, E. Ștephan*, “A study of the average molar weight of biodiesel”, *The 17th Romanian Int. Conf. on Chem. and Chem. Eng. (RICCCE 17)*, 7–10 sept 2011, Sinaia, S3-P-18, 6 pag, CD, ISSN CD ROM of full texts: 2247-5389.
7. *S. Geacai, I. Niță, O. Iulian*, “Measurements and correlations of physico-chemical properties to composition of pseudo-binary mixtures with biodiesel”, *The 19th Int. Congress of Chem. and Process Eng.(CHISA 2010)*, 29 aug – 02 sept 2010, Praga, Czech Rep., P3.146, 7 pag, Book of abstracts, seria 187, ISBN 978-80-02-02247-3

8. A. E. Sterpu, I. Niță, A. A. Neagu, A. I. Dumitru, **S. Geacai**, "Mathematical models for mixing time of some additive free calcium soap lubricating greases", Int. Review of Chem. Eng., Rapid Communications (IRECHE), dec. 2010, Italy, pp.801-804; ISSN 2035-1755.

**Participări la conferințe internaționale,
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1. I. Nita, **S. Osman**, Viscosity of butanol and propanol blends with diesel oil, International Chemical Engineering and Material Symposium, SICHEM 2022, 17-18 November 2022, ISSN 2537-3354
2. A. Stefaniu, M. Brinzei, O. Iulian, and **S. Osman**, Refractive index of l-alanine at different temperatures: experimental and predictive calculations, CHIMIA 2020- New trends in applied chemistry", Mai 2021, Constanta, Book of abstracts
3. R.-D. Pavaloiu , F. Sha'at, C. Hlevca, M. Sha'at, G. Savoiu, **S. Osman** Evaluation on drug release kinetics from polymeric nanoparticles loaded with poorly-water soluble apis, CHIMIA 2020- New trends in applied chemistry", Mai 2021, Constanta, Book of abstracts
4. A. Stefaniu, L. Pirvu, and **S. Osman**, Druglikeness parameters for luteolin derivatives: a computational approach, CHIMIA 2020- New trends in applied chemistry", Mai 2021, Constanta, Book of abstracts
5. I. Nita, M. Oprea and **S. Osman**, Biopentanol, a possible fuel for transportation domaine, CHIMIA 2020- New trends in applied chemistry", Mai 2021, Constanta, Book of abstracts
6. **S. Osman and I. Niță**, " Ternary fuels blends with applications in transport domaine" International Conference "CHIMIA 2018- New trends in applied chemistry", Mai 2018, Constanta, Book of abstracts, vol.3 ISSN 2360-3941
7. **I. Niță and S. Osman**, "Transport properties of some biofuels blends" International Conference "CHIMIA 2018- New trends in applied chemistry", Mai 2018, Constanta, Book of abstracts, vol.3 ISSN 2360-3941
8. **I. Niță and S. Osman**, "Models for the estimation of volumetric and transport properties of diesel fuel+bioalcohols blends" International Conference "CHIMIA 2018- New trends in applied chemistry", Mai 2018, Constanta, Book of abstracts, vol.3 ISSN 2360-3941
9. **G-R. Stoica, I. Niță, S. Osman, O. Iulian**, "Study of the impact of isopropanol addition to diesel fuel", The 20th Romanian Int. Conf. on Chem. and Chem. Eng (RICCCE 20), 6-9 sept. 2017, Poiana Brasov, România, S3 – 194.
10. **G-R. Stoica, A-R. Popescu, I. Nita, O.Iulian, S. Osman, E. Geacai**, Study of density and viscosity of diesel fuel + i-propanol mixtures, Prioritatile Chimiei pentru o dezvoltare Durabila-PRIOCHEM, editia a XII-a, 27-28 Octombrie 2016, Bucuresti, S4 – P02, pp. 135, Book of abstracts, ISSN 2285 8334.
11. **I. Niță, O. Iulian, E. Geacai, S. Osman**, Physico-chemical properties of the pseudo-binary mixture gasoline + 1-butanol, The International Scientific Conference on Environmental and Climate Technologies – CONECT 2015, 14-16 october 2015, Riga, Latvia, P2.20.
12. **I. Niță, O. Iulian, E. Geacai, S. Osman**, Volumetric properties of pseudo-binary and ternary mixtures with biodiesel, The 19th Romanian Int. Conf. on Chem. and Chem. Eng (RICCCE 19), 2-5 sept. 2015, Sibiu, Romania, S3-62.
13. **I. Niță, O. Iulian, E. Geacai and S. Osman**, "Distillation curves of gasoline+alcohols blends", International Conference "CHIMIA 2016- New trends in applied chemistry", 26-28 Mai 2016, Constanta, PC4, p.54, Book of abstracts, Volume 2, ISSN 2360-3941.

14. *I. Niță, O. Iulian, E. Geacai and S. Osman*, “Study of density and viscosity variation of diesel fuel blends with n-butanol”, International Conference “CHIMIA 2016- New trends in applied chemistry”, 26-28 Mai 2016, Constanta, PC5, p.55, Book of abstracts, Volume 2, ISSN 2360-3941.
15. *I. Niță, O. Iulian, S. Osman, G. R. Stoica and A. R. Popescu*, “Correlations for refractive index of diesel fuel+n-butanol mixtures”, International Conference “CHIMIA 2016- New trends in applied chemistry”, 26-28 Mai 2016, Constanta, PC6, p.56, Book of abstracts, Volume 2, ISSN 2360-3941.
16. *I. Niță, O. Iulian, E. Geacai, S. Osman*, „Study of physico-chemical properties of gasoline+bioalcohols mixtures”, Prioritatile Chimiei pentru o dezvoltare Durabila-PRIOCHEM, editia a XI-a, 29-30 Octombrie 2015, Bucuresti, S4 – P - 19, pp. 144, Book of abstracts, ISSN 2285 8334, ISSN-L 2285 8334.
17. *I. Niță, S. Osman*, “Thermal expansion coefficient for different vegetable oils”, International Workshop “Food Chemistry & Engineering”, 15-16 Mai 2015, Constanta, P8, pp. 15, Book of abstracts, ISBN 978-973-614-776-0.
18. *I. Niță, A. Neagu, E. Botez and S. Geacai*, “Correlations for refractive index of vegetable oils”, International Conference “CHIMIA 2014- New trends in applied chemistry”, 23-24 Mai 2014, Constanta, p.103, Book of abstracts, ISSN 2360-3941, ISSN-L 2360-3941.
19. *S. Geacai, O. Iulian, I. Niță, E. Geacai*, “Ternary blends with biodiesel”, International Conference “CHIMIA 2014- New trends in applied chemistry”, 23-24 Mai 2014, Constanta, p.103, Book of abstracts, ISSN 2360-3941, ISSN-L 2360-3941.
20. *I. Niță, S. Geacai, A. Neagu, E. Geacai*, “Estimation of the refractive index of diesel fuel+biodiesel blends”, Workshop "New trends in oil, gas and petrochemical industry", 24-25 Mai 2013, Constanta, P21, pp. 54-55, Book of abstracts, ISBN 978-973-614-776-0.
21. *A. Neagu, I. Niță, E. Botez, S. Geacai*, “Study of physico-chemical properties of some edible oils”, Int. Workshop challenges in food chem., 31 Mai–1 Iunie 2013, Constanta, P14, pp.42-43, Book of abstracts, ISBN 978-973-614-777-7.
22. *I. Niță, S. Geacai*, “Study of density and viscosity for ternary mixtures biodiesel+diesel fuel+bioalcohols”, “CHIMIA 2012-New trends in applied chemistry”, 24-26 mai 2012, Constanta, PC.2, pp.112-113, Book of abstracts, ISBN 987-973-614-711-1.
23. *S. Geacai, I. Niță*, “The influence of the nature of vegetable oil in biodiesel synthesis”, International Conference “CHIMIA 2012- New trends in applied chemistry”, 24-26 mai 2012, Constanta, PD2, pp.126-127, Book of abstract, ISBN 987-973-614-711-1.
24. *I. Niță, A. Neagu, S. Geacai, A. Dumitru, A. Sterpu*, “Study of the behavior of some vegetable oils during the thermal treatment”, Int. workshop Challenges in food chem., 28-29 mai 2010, Constanta, PC.2, pp.112-113, Book of abstract, ISBN 978-973-614-538-4.
25. *S. Geacai, I. Niță, A.A. Neagu, A. Dumitru, A.E. Sterpu*, “Study regarding the corrosivity of biodiesel and its blends with diesel fuel”, The 2nd Int. Conf. on Chem. and Chem. Eng., 2009, Timisoara, pp.103, CD, ISSN 2068-374X
26. *I. Niță, S. Geacai, A. Dumitru, A.A. Neagu, A.E. Sterpu*, “Correlation between physical properties of biodiesel-diesel oil blend”, The 2nd Int. Conf. on Chem. and Chem. Eng, 2009, Timisoara, p.104, CD, ISSN 2068-374X
27. *A. Dumitru, A.E. Sterpu, A.A. Neagu, I. Niță, S. Geacai*, “Composition effect of biodiesel-diesel oil blends on total unsaturation and acidity”, The 2nd Int. Conf. on Chem. and Chem. Eng, 2009, Timisoara, p.105, CD, ISSN 2068-374X
28. *A. Dumitru, A.E. Sterpu, A.A. Neagu, I. Niță, S. Geacai*, “Experimental study concerning ignition characteristics of biodiesel-diesel oil blends”, The 2nd Int. Conf. on Chem. and Chem. Eng, 2009, Timisoara, p.106, CD, ISSN 2068-374X

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	<i>All</i>
<u>Citations</u>	270
<u>h-index</u>	9
<u>i10-index</u>	8

Membru în comitete de organizare ale unor conferințe naționale și internaționale

Membru în comitete de organizare a unor conferințe internaționale:

1. „CHIMIA 2009 – New trends in applied chemistry” - International Conference, 13-16 Mai 2009, Constanța, România
2. „Challenges in food chemistry” - International Workshop, 28-29 mai 2010, Constanța, România
3. “CHIMIA 2012- New trends in applied chemistry” - International Conference 24-26 Mai 2012, Constanța, România
4. “Challenges in food chemistry” - International workshop, 31 Mai-1 iunie 2013, Constanța, Romania
5. “Oil, gas and petrochemical industry” - International Workshop, 24 - 25 mai 2013, Constanța, Romania
6. “CHIMIA 2014 - New trends in applied chemistry” – International Conference mai 2014, Constanța, Romania
7. "Food chemistry & engineering" - International Workshop 15 mai 2015, Constanța, Romania
8. “CHIMIA 2016 - New trends in applied chemistry” – International Conference 26-28 mai 2016, Constanța, Romania
9. “CHIMIA 2018 - New trends in applied chemistry” – International Conference mai 2018, Constanța, Romania
10. “CHIMIA 2020 - New trends in applied chemistry” – International Conference mai 2021, Constanța, Romania

Stagii în străinătate

1. ERASMUS PLUS PROGRAM KAI/STAFF MOBILITY FOR TEACHING, September 21 – 28, 2014, University of Nevsehir, FEN Faculty, Turkey
2. ERASMUS PLUS PROGRAM KAI/STAFF MOBILITY FOR TRAINING, 5-8.04.2021, University of Ordu, FEN Faculty, Turkey
3. ERASMUS PLUS PROGRAM KAI/STAFF MOBILITY FOR TRAINING, 20-23.12.2021, Batman University, Faculty of Engineering and Architecture, Department of Petroleum and Natural Gas Engineering, Turkey
4. ERASMUS PLUS PROGRAM KAI/STAFF MOBILITY FOR TRAINING, 24-27.07.2023, Bursa Technical University, Faculty of Engineering and Natural Sciences, Department of Chemical Engineering, Turkey

Premii științifice naționale

- I. Niță, S. Geacai, O. Iulian, “Measurements and correlations of physico-chemical properties to composition of pseudo-binary mixtures with biodiesel”, *Renew. Energ.*, vol. 36, no.12, 2011, pp.3417-3423, ISSN 0960-1481, **IF: 8.634.**, PN-II-RU-PRECISI- 2011-3-1045.
- II. S. Geacai, O. Iulian, I. Niță, Measurement, correlation and prediction of biodiesel blends viscosity, *Fuel*, vol. 143, 2015, pp.268–274, ISSN 0016-2361, **IF: 8.035**, PN-II-RU-PRECISI- 2015-9-9034, WOS:000347688700032.

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Semnătura:
SL.ing.dr. Sibel Osman (Geacai)