

► ARETI A. LEONTIOU

Laboratory Teaching Staff

Department of Food Science & Technology
University of Patras

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Academic Titles

- BSc in Chemistry, Department of Chemistry, University of Ioannina, 2000
- PhD in Chemical Technology, Department of Chemistry, University of Ioannina, 2004

Thesis: Heterogeneous perovskite type mixed oxides of iron and manganese.

Research Interests

- Composition of innovative nanocomposing polymer materials with applications in food packaging.
- Composition and characterisation of mixed perovskite oxides and study of catalytic activity in reactions of environmental interest.

Academic Experience

- **Laboratory Teaching Staff (EDIP)**, Discipline: **Chemical Technology**, Department of Food Science & Technology, University of Patras (July 2022-today).
- **Laboratory Teaching Staff (EDIP)**, Discipline: Chemical Technology, Department of Business Administration of Food and Agricultural Enterprises, University of Patras (May 2014-July 2022).
- **Laboratory Teaching Assistant**, Food Technology Laboratory, Department of Business Administration of Food and Agricultural Enterprises, University of Patras (April 2013-May 2014).
- **Chemist**, Department of Business Administration of Food and Agricultural Enterprises, University of Patras (July 2006-April 2013).

Teaching

- **2014-2022 (Department of Business Administration of Food and Agricultural Enterprises):**
 - General Chemistry - laboratory
 - Food Safety - laboratory
 - Chemistry & Food Technology - laboratory
- **2019-2020 (Department of Business Administration of Food and Agricultural Enterprises):**
 - Organic chemistry - theory (co-teaching)

- **2021-2022 (Department of Food Science & Technology):**
 - General & Inorganic Chemistry - *laboratory*
 - Instrumental Food Analysis - *laboratory*
 - Organic Chemistry - *laboratory*
 - Food Technology - *laboratory*
 - Food Additives – *theory & laboratory*
- **2022-today (Department of Food Science & Technology):**
 - Instrumental Food Analysis - *laboratory*
 - Food Packaging - *laboratory*
 - Food Processing and Preservation Technologies - *laboratory*
 - Food Additives - *laboratory*
 - Nanotechnology in Food Production – *laboratory*
 - Instrumental Food Analysis - *theory* (co-teaching) (2024-today)
 - Food Packaging - *theory* (co-teaching) (2024-today)
 - Food Processing and Preservation Technologies - *theory* (co-teaching) (2024-today)
 - Food Additives - *theory* (co-teaching) (2024-today)
 - Nanotechnology in Food Production – *theory* (co-teaching) (2024-today)
 - Technology & Quality Control of Food of Animal Origin I - *theory* (co-teaching) (2024)
 - Technology & Quality Control of Food of Animal Origin II – *theory* (co-teaching) (2023-today)

Supervision

- Supervision of 40 undergraduate theses (2017-2026).
- Co-supervision of more than 50 undergraduate theses (2017-2026).

phD Thesis

- Leontiou Areti. Heterogeneous pepovskite type mixed oxides of iron and manganese. Department of Chemistry, University of Ioannina. 2004. National Archive of PhD Theses No. 20173. <http://hdl.handle.net/10442/hedi/20173>

Publications

1. Leontiou, A.A.; Kollia, E.; Lazaridis, D.G.; Kopsacheili, A.; Giannakas, A.E.; Kechagias, A.; Karabagias, I.K.; Proestos, C.; Giannakas, A.E. Corona-Treated LDPE Bilayer Films Coated with Chitosan/Glycerol and Carvacrol@Zeolite Nanohybrid for High-Oxygen-Barrier Active Packaging. *Polysaccharides* 2026, 7, 62. <https://doi.org/10.3390/polysaccharides7020062>
2. Giannakas, A.E.; Kechagias, A.; Dormousoglou, M.; Karakasidou, G.; Moschovas, D.; Triantafyllou, E.; Leontiou, A.A.; Giannakas, A.; Stathopoulou, P.; Avgeropoulos, A.; et al. Casein–Lecithin Nanoemulsions Co-Encapsulating Vitamin E and Carvacrol as Multifunctional Edible Coatings for Meat Preservation. *Gels* 2026, 12, 300. <https://doi.org/10.3390/gels12040300>
3. Karaboulis, P.; Leontiou, A.A.; Tsakonas, C.; Paterakis, G.; Dormousoglou, M.; Giannakas, A.; Stathopoulou, P.; Proestos, C.; Galiotis, C.; Salmas, C.E.; et al. Engineering Active PET Packaging via Corona Treatment and Natural Biocide Coating: Carvacrol and Trans-Cinnamaldehyde for Food Preservation. *Polymers* 2026, 18, 809. <https://doi.org/10.3390/polym18070809>
4. Leontiou AA, Giannakas AE. Cyclodextrin-Based Nanoencapsulation of Essential Oils for Advanced Food Applications. *Food Science and Engineering* . 2026 Mar. 24;7(1):137-55. <https://doi.org/10.37256/fse.7120269508>
5. Leontiou, A.A.; Kechagias, A.; Kopsacheili, A.; Kollia, E.; Oliinychenko, Y.K.; Stratakis, A.C.; Proestos, C.; Salmas, C.E.; Giannakas, A.E. Carvacrol@ZnO and trans-Cinnamaldehyde@ZnO Nanohybrids for

- Poly-Lactide/tri-Ethyl Citrate-Based Active Packaging Films. *Molecules* 2025, 30, 4646. <https://doi.org/10.3390/molecules30234646>
6. Dimitrios Moschovas, Andreas Karydis-Messinis, Eleni Triantafyllou, Achilleas Kechagias, Maria Baikousi, Areti Leontiou, Aris E. Giannakas, Constantinos E. Salmas, and Apostolos Avgeropoulos. Incorporation of LDPE with Casein for the Development of Packaging Materials with Optimized Properties, *Industrial & Engineering Chemistry Research* 2025 64 (37), 18347-18353. DOI: 10.1021/acs.iecr.5c02342
7. Kechagias, A.; Leontiou, A.A.; Vardakas, A.; Stathopoulos, P.; Xenaki, M.; Stathopoulou, P.; Proestos, C.; Giannelis, E.P.; Chalmpes, N.; Salmas, C.E.; et al. Antioxidant Nanohybrid Materials Derived via Olive Leaf Extract Incorporation in Layered Double Hydroxide: Preparation, Characterization, and Evaluation for Applications. *Antioxidants* 2025, 14, 1010. <https://doi.org/10.3390/antiox14081010>
8. Kechagias, A.; Leontiou, A.A.; Oliinychenko, Y.K.; Stratakos, A.C.; Zaharioudakis, K.; Katerinopoulou, K.; Baikousi, M.; Andritsos, N.D.; Proestos, C.; Chalmpes, N.; et al. Eugenol@natural Zeolite vs. Citral@natural Zeolite Nanohybrids for Gelatin-Based Edible-Active Packaging Films. *Gels* 2025, 11, 518. <https://doi.org/10.3390/gels11070518>
9. Kechagias, A.; Leontiou, A.A.; Oliinychenko, Y.K.; Stratakos, A.C.; Zaharioudakis, K.; Proestos, C.; Giannelis, E.P.; Chalmpes, N.; Salmas, C.E.; Giannakas, A.E. Eugenol@Montmorillonite vs. Citral@Montmorillonite Nanohybrids for Gelatin-Based Extruded, Edible, High Oxygen Barrier, Active Packaging Films. *Polymers* 2025, 17, 1518. <https://doi.org/10.3390/polym17111518>
10. Karabagias, V. K., Giannakas, A. E., Leontiou, A. A., Karydis-Messinis, A., Moschovas, D., Andritsos, N. D., Avgeropoulos, A., Zafeiropoulos, N. E., Proestos, C., & Salmas, C. E. (2025). Novel Carvacrol@activated Carbon Nanohybrid for Innovative Poly(lactide Acid)/Triethyl Citrate Based Sustainable Active Packaging Films. *Polymers*, 17(5), 605. <https://doi.org/10.3390/polym17050605>
11. Kechagias, A.; Salmas, C.E.; Chalmpes, N.; Leontiou, A.A.; Karakassides, M.A.; Giannelis, E.P.; Giannakas, A.E. Laponite vs. Montmorillonite as Eugenol Nanocarriers for Low Density Polyethylene Active Packaging Films. *Nanomaterials* 2024, 14, 1938. <https://doi.org/10.3390/nano14231938>
12. Zaharioudakis, K.; Salmas, C.E.; Andritsos, N.D.; Leontiou, A.A.; Moschovas, D.; Karydis-Messinis, A.; Triantafyllou, E.; Avgeropoulos, A.; Zafeiropoulos, N.E.; Proestos, C.; Giannakas A.E. Investigating the Synergistic Effects of Carvacrol and Citral-Edible Polysaccharide-Based Nanoemulgels on Shelf Life Extension of Chalkidiki Green Table Olives. *Gels* 2024, 10, 722. <https://doi.org/10.3390/gels10110722>
13. Constantinos E Salmas, Stavros Georgopoulos, Areti Leontiou, Viktoria Sakavitsi, Antigoni Cheilari, Eleni Kollia, Konstantinos Zaharioudakis, Efthymia Ragkava, Vasilios K Karabagias, Nikolaos D Andritsos, Ioannis Konstantinou, Charalampos Proestos, George Kehayias, Aris E Giannakas. Crayfish Waste-shells Integrated Valorization for Added Value Materials Production: Calcium Hydroxide, Calcium Carbonate, Chitin, Chitosan, and N-S co-doped Carbon Quantum Dots. *Waste Biomass Valor* 15, 5947–5963 (2024). <https://doi.org/10.1007/s12649-024-02559-4>
14. Giannakas, A.E.; Karabagias, V.K.; Ndreka, A.; Dimitrakou, A.; Leontiou, A.A.; Katerinopoulou, K.; Karakassides, M.A.; Proestos, C.; Salmas, C.E. Effect of Corona Treatment Method to Carvacrol Nanocoating Process for Carvacrol/Halloysite-Nanotube/Low-Density-Polyethylene Active Packaging Films Development. *Nanomanufacturing* 2024, 4, 138-158. <https://doi.org/10.3390/nanomanufacturing4030010>
15. Karabagias, V.K.; Giannakas, A.E.; Andritsos, N.D.; Leontiou, A.A.; Moschovas, D.; Karydis-Messinis, A.; Avgeropoulos, A.; Zafeiropoulos, N.E.; Proestos, C.; Salmas, C.E. Shelf Life of Minced Pork in Vacuum-Adsorbed Carvacrol@Natural Zeolite Nanohybrids and Poly-Lactic Acid/Triethyl

- Citrate/Carvacrol@Natural Zeolite Self-Healable Active Packaging Films. *Antioxidants* 2024, 13, 776. <https://doi.org/10.3390/antiox13070776>
16. Zaharioudakis Konstantinos, Salmas Constantinos E. , Andritsos Nikolaos D., Kollia Eleni, Leontiou Areti, Karabagias Vassilios K., Karydis-Messinis Andreas, Moschovas Dimitrios, Zafeiropoulos Nikolaos E., Avgeropoulos Apostolos, Proestos Charalampos, Giannakas Aris E. Carvacrol, citral, eugenol and cinnamaldehyde casein based edible nanoemulsions as novel sustainable active coatings for fresh pork tenderloin meat preservation. *Frontiers in Food Science and Technology* 2024, 4. <https://doi.org/10.3389/frfst.2024.1400224>
 17. Karabagias, V.K.; Giannakas, A.E.; Andritsos, N.D.; Moschovas, D.; Karydis-Messinis, A.; Leontiou, A.; Avgeropoulos, A.; Zafeiropoulos, N.E.; Proestos, C.; Salmas, C.E. Novel Polylactic Acid/Tetraethyl Citrate Self-Healable Active Packaging Films Applied to Pork Fillets' Shelf-Life Extension. *Polymers* 2024, 16, 1130. <https://doi.org/10.3390/polym16081130>
 18. Giannakas, A.E.; Baikousi, M.; Karabagias, V.K.; Karageorgou, I.; Iordanidis, G.; Emmanouil-Konstantinos, C.; Leontiou, A.; Karydis-Messinis, A.; Zafeiropoulos, N.E.; Kehayias, G.; et al. Low-Density Polyethylene-Based Novel Active Packaging Film for Food Shelf-Life Extension via Thyme-Oil Control Release from SBA-15 Nanocarrier. *Nanomaterials* 2024, 14, 423. <https://doi.org/10.3390/nano14050423>
 19. Zaharioudakis, K.; Kollia, E.; Leontiou, A.; Moschovas, D.; Karydis-Messinis, A.; Avgeropoulos, A.; Zafeiropoulos, N.E.; Ragkava, E.; Kehayias, G.; Proestos, C.; et al. Carvacrol Microemulsion vs. Nanoemulsion as Novel Pork Minced Meat Active Coatings. *Nanomaterials* 2023, 13, 3161. <https://doi.org/10.3390/nano13243161>
 20. Giannakas, A.E.; Karabagias, V.K.; Moschovas, D.; Leontiou, A.; Karabagias, I.K.; Georgopoulos, S.; Karydis-Messinis, A.; Zaharioudakis, K.; Andritsos, N.; Kehayias, G.; et al. Thymol@activated Carbon Nanohybrid for Low-Density Polyethylene-Based Active Packaging Films for Pork Fillets' Shelf-Life Extension. *Foods* 2023, 12, 2590. <https://doi.org/10.3390/foods12132590>
 21. Salmas, Constantinos E; Giannakas, Aris E; Karabagias, Vassilios K; Moschovas, Dimitrios; Karabagias, Ioannis K; Gioti, Christina; Georgopoulos, Stavros; Leontiou, Areti; Kehayias, George; Avgeropoulos, Apostolos. Development and Evaluation of a Novel-Thymol@ Natural-Zeolite/Low-Density-Polyethylene Active Packaging Film: Applications for Pork Fillets Preservation. *Antioxidants* 2023, 12(2) 523. <https://doi.org/10.3390/antiox12020523>
 22. Leontiou, Areti; Georgopoulos, Stavros; Karabagias, Vassilios K; Kehayias, George; Karakassides, Anastasios; Salmas, Constantinos E; Giannakas, Aris E. Three-Dimensional Printing Applications in Food Industry. *Nanomanufacturing* 2023, 3(1), 91-112. <https://doi.org/10.3390/nanomanufacturing3010006>
 23. Salmas, C.E.; Kollia, E.; Avdylaj, L.; Kopsacheili, A.; Zaharioudakis, K.; Georgopoulos, S.; Leontiou, A.; Katerinopoulou, K.; Kehayias, G.; Karakassides, A.; et al. Thymol@Natural Zeolite Nanohybrids for Chitosan/Polyvinyl-Alcohol-Based Hydrogels Applied as Active Pads. *Gels* 2023, 9, 570. <https://doi.org/10.3390/gels9070570>
 24. Kechagias, Achilleas; Lykos, Christos; Karabagias, Vassilios K; Georgopoulos, Stavros; Sakavitsi, Viktoria; Leontiou, Areti; Salmas, Constantinos E; Giannakas, Aris E; Konstantinou, Ioannis. Development and Characterization of N/S-Carbon Quantum Dots by Valorizing Greek Crayfish Food Waste. *Appl. Sci.* 2023, 13(15), 8730. <https://doi.org/10.3390/app13158730>
 25. Salmas, Constantinos E; Leontiou, Areti; Kollia, Eleni; Zaharioudakis, Konstantinos; Kopsacheili, Anna; Avdylaj, Learda; Georgopoulos, Stavros; Karabagias, Vassilios K; Karydis-Messinis, Andreas; Kehayias, George. Active Coatings Development Based on Chitosan/Polyvinyl Alcohol Polymeric Matrix Incorporated with Thymol Modified Activated Carbon Nanohybrids. *Coatings* 2023, 13(9), 1503. <https://doi.org/10.3390/coatings13091503>

26. Giannakas, Aris E; Zaharioudakis, Konstantinos; Kollia, Eleni; Kopsacheili, Anna; Avdylaj, Learda; Georgopoulos, Stavros; Leontiou, Areti; Karabagias, Vassilios K; Kehayias, George; Ragkava, Efthymia. The Development of a Novel Sodium Alginate-Based Edible Active Hydrogel Coating and Its Application on Traditional Greek Spreadable Cheese. *Gels* 2023, 9(10), 807. <https://doi.org/10.3390/gels9100807>
27. Giannakas, A.E.; Salmas, C.E.; Moschovas, D.; Karabagias, V.K.; Karabagias, I.K.; Baikousi, M.; Georgopoulos, S.; Leontiou, A.; Katerinopoulou, K.; Zafeiropoulos, N.E.; et al. Development, Characterization, and Evaluation as Food Active Packaging of Low-Density-Polyethylene-Based Films Incorporated with Rich in Thymol Halloysite Nanohybrid for Fresh “Scaloppini” Type Pork Meat Fillets Preservation. *Polymers* 2023, 15, 282. <https://doi.org/10.3390/polym15020282>
28. Salmas, C.E.; Giannakas, A.E.; Moschovas, D.; Kollia, E.; Georgopoulos, S.; Gioti, C.; Leontiou, A.; Avgeropoulos, A.; Kopsacheili, A.; Avdylaj, L.; et al. Kiwi Fruits Preservation Using Novel Edible Active Coatings Based on Rich Thymol Halloysite Nanostructures and Chitosan/Polyvinyl Alcohol Gels. *Gels* 2022, 8, 823. <https://doi.org/10.3390/gels8120823>
29. Giannakas, A.E.; Salmas, C.E.; Leontiou, A.; Moschovas, D.; Baikousi, M.; Kollia, E.; Tsigkou, V.; Karakassides, A.; Avgeropoulos, A.; Proestos, C. Performance of Thyme Oil@Na-Montmorillonite and Thyme Oil@Organo-Modified Montmorillonite Nanostructures on the Development of Melt-Extruded Poly-L-lactic Acid Antioxidant Active Packaging Films. *Molecules* 2022, 27, 1231. <https://doi.org/10.3390/molecules27041231>
30. Giannakas, A.E.; Salmas, C.E.; Moschovas, D.; Baikousi, M.; Kollia, E.; Tsigkou, V.; Karakassides, A.; Leontiou, A.; Kehayias, G.; Avgeropoulos, A.; et al. Nanocomposite Film Development Based on Chitosan/Polyvinyl Alcohol Using ZnO@Montmorillonite and ZnO@Halloysite Hybrid Nanostructures for Active Food Packaging Applications. *Nanomaterials* 2022, 12, 1843. <https://doi.org/10.3390/nano12111843>
31. Giannakas, A.E.; Salmas, C.E.; Leontiou, A.; Baikousi, M.; Moschovas, D.; Asimakopoulos, G.; Zafeiropoulos, N.E.; Avgeropoulos, A. Synthesis of a Novel Chitosan/Basil Oil Blend and Development of Novel Low Density Poly Ethylene/Chitosan/Basil Oil Active Packaging Films Following a Melt-Extrusion Process for Enhancing Chicken Breast Fillets Shelf-Life. *Molecules* 2021, 26, 1585. <https://doi.org/10.3390/molecules26061585>
32. Salmas, C.E.; Giannakas, A.E.; Baikousi, M.; Leontiou, A.; Siasou, Z.; Karakassides, M.A. Development of Poly(L-Lactic Acid)/Chitosan/Basil Oil Active Packaging Films via a Melt-Extrusion Process Using Novel Chitosan/Basil Oil Blends. *Processes* 2021, 9, 88. <https://doi.org/10.3390/pr9010088>
33. Salmas, C.; Giannakas, A.; Katapodis, P.; Leontiou, A.; Moschovas, D.; Karydis-Messinis, A. Development of ZnO/Na-Montmorillonite Hybrid Nanostructures Used for PVOH/ZnO/Na-Montmorillonite Active Packaging Films Preparation via a Melt-Extrusion Process. *Nanomaterials* 2020, 10, 1079. <https://doi.org/10.3390/nano10061079>
34. Giannakas, A.; Salmas, C.; Leontiou, A.; Tsimogiannis, D.; Oreopoulou, A.; Braouhli, J. Novel LDPE/Chitosan Rosemary and Melissa Extract Nanostructured Active Packaging Films. *Nanomaterials* 2019, 9, 1105. <https://doi.org/10.3390/nano9081105>
35. Giannakas A.; Vlach M. ; Salmas C.; Leontiou A.; Katapodis P.; Stamatias H.; Barkoula N.; Ladavos A. Preparation, characterization, mechanical, barrier and antimicrobial properties of chitosan/PVOH/clay nanocomposites. *Carbohydrate Polymers* 140 (2016) 408-415. <https://doi.org/10.1016/j.carbpol.2015.12.072>
36. Giannakas A.; Grigoriadi K.; Leontiou A.; Barkoula N.; Ladavos A. Preparation, morphological characterization, mechanical and barrier properties investigation of chitosan-clay nanocomposites. *Carbohydrate Polymers* 108 (2014) 103-111. <https://doi.org/10.1016/j.carbpol.2014.03.019>

37. Leontiou A.A.; Ladavos A.K.; Giannakas A.E.; Bakas T.V.; Pomonis P.J. A comparative study of substituted perovskite-type solids of oxidic $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}$ and chlorinated $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}\text{Cl}_\theta$ form: Catalytic performance for CH_4 oxidation by O_2 or N_2O . *Journal of Catalysis* 251 (2007) 103-112. <https://doi.org/10.1016/j.jcat.2007.07.012>
38. Giannakas A.E.; Leontiou A.A.; Ladavos A.K.; Pomonis P.J. Characterization and catalytic investigation of NO+CO reaction on perovskites of the general formula $\text{La}_x\text{M}_{1-x}\text{FeO}_3$ (M=Sr and/or Ce) prepared via a reverse micelles microemulsion route. *Applied Catalysis A: General* 309 (2006) 254-262. <https://doi.org/10.1016/j.apcata.2006.05.016>
39. Pomonis P.J.; Petrakis D.E.; Ladavos A.K.; Kolonia K.M.; Pantazis C.C.; Giannakas A.E.; Leontiou A.A. The I-Point method for estimating the surface area of solid catalysts and the variation of C-term of the BET equation. *Catalysis Communications* 6 (2005) 93-96. <https://doi.org/10.1016/j.catcom.2004.11.006>
40. Leontiou A.A.; Ladavos A.K.; Armatas G.S.; Trikalitis P.N.; Pomonis P.J. Kinetics investigation of NO+CO reaction on La-Sr-Mn-O perovskite-type mixed oxides. *Applied Catalysis A: General* 263 (2004) 227-239. <https://doi.org/10.1016/j.apcata.2003.12.017>
41. Leontiou A.A.; Ladavos A.K.; Bakas T.V.; Vaimakis T.C.; Pomonis P.J. Reverse uptake of oxygen from $\text{La}_{1-x}\text{Sr}_x(\text{Fe}^{3+}/\text{Fe}^{4+})\text{O}_{3\pm\delta}$ perovskite-type mixed oxides ($x = 0; 0.00; 0.15; 0.30; 0.40; 0.60; 0.70; 0.80; 0.90$). *Applied Catalysis A: General* 241 (2003) 143-154. [https://doi.org/10.1016/S0926-860X\(02\)00458-1](https://doi.org/10.1016/S0926-860X(02)00458-1)
42. Leontiou A.A.; Ladavos A.K.; Pomonis P.J. Catalytic NO reduction with CO on $\text{La}_{1-x}\text{Sr}_x(\text{Fe}^{3+}/\text{Fe}^{4+})\text{O}_{3\pm\delta}$ perovskite-type mixed oxides ($x = 0.00; 0.15; 0.30; 0.40; 0.60; 0.70; 0.80; 0.90$). *Applied Catalysis A: General* 241 (2003) 133-141. [https://doi.org/10.1016/S0926-860X\(02\)00457-X](https://doi.org/10.1016/S0926-860X(02)00457-X)

Conference Publications

- "A green method of manufacturing hybrid materials from hydrophilic and organophil montmorillonite and essential oils", A. Giannakas, A. Leontiou, I. Tsagkalias, D. Achilias, A. Ladavos, *5th Conference on Green Chemistry and Sustainable Development, Patras, 20-22 October 2017*.
- "Composition and characterization of LDPE nanocomposined film - clay modified with essential oils", A. Giannakas A. Leontiou, K. Zacharioudakis, A. Ladavos, *5th Conference on Green Chemistry and Sustainable Development, Patras, 20-22 October 2017*.
- "Effect of the different manufacturing method on mechanical properties, moisture barrier and antioxidant capacity of nanosythetic chitosan/thyme oil/montmorillonite film", A. Giannakas, A. Leontiou, A. Ladavos, *5th Conference on Green Chemistry and Sustainable Development, Patras, 20-22 October 2017*.
- "Authenticity check and certification of the geographical origin of agricultural products", (poster), C. Salmas, A. Leontiou, A. Patakas, A. Ladavos, *12th Chemistry Conference of Greece - Cyprus, Thessaloniki, 8-10 May 2015*.
- "A comparative study of substituted perovskite-type mixed solids of oxidic $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}$ and chlorinated $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}\text{Cl}_\theta$ forms for the catalytic oxidation of CH_4 by O_2 ", (poster), A.A. Leontiou, A.K. Ladavos, P.J. Pomonis, *7th European Congress on Catalysis, Sofia, Bulgaria, 28 August – 1 September 2005*.
- "The I-Point method for the estimation of surface area of solids catalysts and the variation of C term of the BET equation using BET-Scatchard plots", P.J. Pomonis, D.E. Petrakis, A.K. Ladavos, K.M. Kolonia, G.S. Armatas, A.A. Leontiou, A.E. Giannakas, C.C. Pantazis, *7th European Congress on Catalysis, Sofia, Bulgaria, 28 August – 1 September 2005*.
- "Surface properties, textural features and catalytic performance for NO+CO abatement of spinels MAl_2O_4 (M=Mg, Co and Zn) developed by reverse and bicontinuous microemulsion method", A.E. Giannakas, A.A. Leontiou, A.K. Ladavos, D.E. Petrakis, K.M. Kolonia, P.J. Pomonis, *7th European Congress on Catalysis, Sofia, Bulgaria, 28 August – 1 September 2005*.

- "A novel method for the estimation of surface area of solids catalysts and the variation of C-term of the BET equation using BET-Scatchard plots", P.J. Pomonis, D.E. Petrakis, A.K. Ladavos, K.M. Kolonia, A.A. Leontiou, A.E. Giannakas, C.C. Pantazis, *13th International Congress on Catalysis, Paris, 11-16 July 2004*.
- "Comparative study of substituted perovskitic oxides $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}$ and $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}\text{Cl}_\sigma$ for CH_4 oxidation reaction with N_2O or O_2 ", (poster), A. Leontiou, A. Ladavos, P. Pomonis, *8th Panhellenic Catalysis Symposium, Ayia Napa, Cyprus, 30 October – 1 November 2004*.
- "Oxygen absorption study in mixed perovskitic structure oxides $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}$ using thermal analysis techniques", A. Leontiou, A. Ladavos, P. Pomonis, *2nd Panhellenic Conference on Thermal Analysis, Ioannina, 25-26 June 2004*.
- "Catalytic activity of La-Sr-Mn-O mixed perovskitic oxides in NO+CO reaction", (poster), A. Leontiou, A. Ladavos, G. Armatas, P. Pomonis, *5th Conference of the Department of Chemistry, University of Ioannina, 22-24 October 2002*.
- "Catalytic activity of La-Sr-Mn-O mixed perovskitic oxides in NO+CO reaction", (poster), A. Leontiou, A. Ladavos, G. Armatas, P. Pomonis, *7th Panhellenic Symposium on Catalysis, Edessa, 4-5 October 2002*.

Book Chapters

- Giannakas, Aris E., and Areti A. Leontiou. "Montmorillonite composite materials and food packaging." *Composites materials for food packaging* (2018): 1-71.

Scholarships

- Achievement Scholarship (IKY) - State Scholarships Foundation - Department of Chemistry, University of Ioannina for academic years 1996-97 and 1997-98.
- Achievement Award (IKY) - State Scholarships Foundation - Department of Chemistry, University of Ioannina for academic year 1997-98 .
- Excellence & Achievement Awards for all school years 1990-1996

Additional Skills

- **English ability:**
Certificate of Proficiency, University of Cambridge, 2000
Certificate of Proficiency, University of Michigan, 2000
- **Computer skills:**
ECDL Training Diploma, 2004