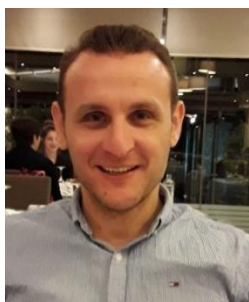


PERSONAL INFORMATION

Aris E. Giannakas-Assistant Professor



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| LinkedIn | https://www.linkedin.com/home?trk=nav_responsive_tab_home |

| Researchgate | https://www.researchgate.net/profile/Aris_Giannakas

Google Scholar profile Aris Giannakas

<https://scholar.google.gr/citations?user=SrFUnG8AAAAJ&hl=el>

Place of birth Paravola Aitolokarnanias | Date of birth 31/08/1978 | Nationality Greek

Marital status Married, 4 children

Significant Distinction

Member of the Stanford list of 2% of the world's leading scientists in the updated bibliometric study of Elsevier Publishing House for the single year 2022-2023 of J. P.A. Ioannidis <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>

BRIEF PRESENTATION

Academic experience

14 years of independent teaching

Publications

PEER REVIEWED INTERNATIONAL JOURNALS	AS CORRESPONDING AUTHOR	1 ST AUTHOR
69	25	28
LAST CO-AUTHOR	CHAPTERS IN BOOKS	PATENTS
4	4	1
PEER REVIEWED INTERNATIONAL CONFERENCES	EDITORIAL BOARD MEMBER	EDITING BOOK PUBLICATION
18	6	1

Citation Impact

h-Index	AVERAGE IMPACT FACTOR OF PUBLISHED WORK	CITATIONS
27	4,895	2230 (Google Scholar)

Supervision

POSTDOCTORAL STUDIES	DOCTORAL STUDIES	CO-SUPERVISION OF DOCTORAL STUDIES
9	4 (in progress)	3 (in progress)
PHD THESIS EXAMINER	REVIEWER OF INTERNATIONAL SCIENTIFIC JOURNALS	
1	10	

Research Programs

SCIENTIFIC ASSOCIATE	CHIEF SCIENTIFIC OFFICER	SUBMISSION OF RESEARCH PROPOSALS
10	3	4

CURRENT POSITION **Assistant Professor**, Department of Food Science & Technology, School of Agricultural Sciences, University of Patras, Greece

WORK EXPERIENCE

- 2015-2023** Member of the Advisory Educational Staff (AEP), School of Positive Sciences and Technology, Hellenic Open University, Patras, Greece
Postgraduate Programs:
- [Environmental Catalysis for Anti-Pollution and Clean Energy Production](#)
 - [Waste Management](#)
- 2014-2020** Laboratory Teaching Staff (EDIP), Department of Business Administration of Food and Agricultural Enterprises, University of Patras
- 2013-2014** Laboratory Teaching Assistant, Food Technology Laboratory, Department of Business Administration of Food and Agricultural Enterprises, University of Patras
- 2008-2013** IDAX Employee, Laboratory Assistant & Technical Support, Department of Environmental and Natural Resources Management, University of Ioannina
Laboratories:
- [General Chemistry](#)
 - [Environmental Organic Chemistry](#)
 - [Physical Chemistry](#)
 - [Geochemistry](#)
 - [Instrumental Analysis](#)
- 2009-2010** Scientific Associate, Department of Plant Production, School of Agricultural Technology, ATEI Epirus, Arta
- 2005-2008** Laboratory Associate, Department of Floriculture and Landscape Architecture, School of Agricultural Technology, ATEI Epirus, Arta
- 2006-2008** IDAX Employee, Secretarial support, Department of Environmental and Natural Resources Management, University of Ioannina
- 2005-2006** Chemistry Teacher, Private Upper Secondary/Senior High School Palladio, Agrinio

EDUCATION

- 2000-2004** **PhD Thesis**
Department of Chemistry, School of Sciences, University of Ioannina, Greece
- Use of microemulsion in the preparation of perovskite type and spinel type mixed oxides and implementation of them as heterogeneous catalysts.
<http://hdl.handle.net/10442/hedi/34212>
- 1996-2000** **Bachelor's degree**
Department of Chemistry, School of Sciences, University of Ioannina, Greece

Current research activity ▫ [Circular Economy/ Chemical Technology/ Food Nanotechnology](#).
Volarization of biomass and food by-products in the development and characterization of biobased/bioactive nanostructures and their application in food safety, food processing, food preservation, and active or smart food packaging by following circular economy spirit

Teaching Courses ▫ [FST_303 Instrumental Food Analysis](#)

- FST_403 Food Processing and Preservation Technologies
- FST_702 Food Packaging
- FST_X10 Nanotechnology & Biomaterials in Food Production
- FST_E08 Food Additives

Publications

- P_1.** A E Giannakas*, TC Valmeki's, AK Ladavos, P N Trikalitis, P J Pomonis: **"Variation of surface properties and textural features of spinel $ZnAl_2O_4$ and perovskite $LaMnO_3$ nanoparticles prepared via CTAB-butanol-octane-nitrate salt microemulsions in the reverse and bicontinuous states"**. Journal of Colloid and Interface Science 04/2003; 259(2):244-53., DOI:10.1016/S0021-9797(02)00068-1.
- P_2.** A E Giannakas, A K Ladavos, P J Pomonis: **"Preparation, characterization and investigation of catalytic activity for NO + CO reaction of $LaMnO_3$ and $LaFeO_3$ perovskites prepared via microemulsion method"**. Applied Catalysis B Environmental 05/2004; 49(3):147-158., DOI:10.1016/j.apcatb.2003.12.002
- P_3.** P. J. Pomonis, D. E. Petrakis, A. K. Ladavos, K. M. Kolonia, C. C. Pantazis, **A. E. Giannakas**, A. A. Leontiou: **"The I-point method for estimating the surface area of solid catalysts and the variation of C term of the BET equation"**. Catalysis Communications 01/2005; 6(1):93-96., DOI:10.1016/j.catcom.2004.11.006
- P_4.** A E Giannakas, A K Ladavos, G S Armatas, D E Petrakis, P J Pomonis: **"Effect of composition on the conductivity of CTAB-butanol-octane-nitrate salts ($Al(NO_3)_3 + Zn(NO_3)_2$ microemulsions and on the surface and textural properties of resulting spinels $ZnAl_2O_4$ "**. Applied Surface Science 01/2006; 252(6):2159-2170., DOI:10.1016/j.apsusc.2005.03.229
- P_5.** A.E. Giannakas, A.A. Leontiou, A.K. Ladavos, P.J. Pomonis: **"Characterization and catalytic investigation of NO + CO reaction on perovskites of the general formula $La_xM_{1-x}FeO_3$ (M = Sr and/or Ce) prepared via a reverse micelles microemulsion route"**. Applied Catalysis A General 08/2006; 309(2):254-262., DOI:10.1016/j.apcata.2006.05.016
- P_6.** A.E. Giannakas*, A K Ladavos, G.S. Armatas, P.J. Pomonis: **"Surface properties, textural features and catalytic performance for NO + CO abatement of spinels MA_2O_4 (M = Mg, Co and Zn) developed by reverse and bicontinuous microemulsion method"**. Applied Surface Science 03/2007; 253(16):6969-6979., DOI:10.1016/j.apsusc.2007.02.031

- P_7. A A Leontiou, A K Ladavos, **A E Giannakas**, T V Bakas, P J Pomonis: **“A comparative study of substituted perovskite-type solids of oxidic $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}$ and chlorinated $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3\pm\delta}\text{Cl}_\sigma$ form: Catalytic performance for CH_4 oxidation by O_2 or N_2O ”**. Journal of Catalysis 10/2007; 251(1):103-112., DOI:10.1016/j.jcat.2007.07.012
- P_8. Maria Antonopoulou, **Aris Giannakas**, Ioannis Konstantinou: **“Simultaneous Photocatalytic Reduction of Cr(VI) and Oxidation of Benzoic Acid in Aqueous N-F-Codoped TiO_2 Suspensions: Optimization and Modeling Using the Response Surface Methodology”**. International Journal of Photoenergy 09/2012; 10(1), DOI:10.1155/2012/520123
- P_9. Andreas Giannakas, **Aris Giannakas**, Athanasios Ladavos: **“Preparation and Characterization of Polystyrene/Organolaponite Nanocomposites”**. Polymer-Plastics Technology and Engineering 10/2012; 51(14), DOI:10.1080/03602559.2012.704115.
- P_10. **A E Giannakas**, E Seristatidou, Y Deligiannakis, I Konstantinou: **“Photocatalytic activity of N-doped and N-F co-doped TiO_2 and reduction of chromium (VI) in aqueous solution: An EPR study”**. Applied Catalysis B Environmental 03/2013; 132(133):460-468., DOI: 10.1016/j.apcatb.2012.12.017
- P_11. **A. Giannakas**, M. Antonopoulou, Y. Deligiannakis, I. Konstantinou: **“Preparation, characterization of N-I co-doped TiO_2 and catalytic performance toward simultaneous Cr(VI) reduction and benzoic acid oxidation”**. Applied Catalysis B: Environmental 08/2013; 140-141:636., DOI:10.1016/j.apcatb.2013.04.052
- P_12. M. Antonopoulou, **A. Giannakas**, Y. Deligiannakis, I. Konstantinou: **“Photocatalytic degradation of the N,N-diethyl-m-toluamide DEET: kinetic and mechanistic investigation”**. The Chemical Engineering Journal 09/2013; 231:314., DOI:10.1016/j.ccej.2013.06.123
- P_13. Katerina Katerinopoulou, **Aris Giannakas**, Kalouda Grigoriadi, Nektaria M. Barkoula, Athanasios Ladavos: **“Preparation and characterization of acetylated corn starch-(PVOH)/clay nanocomposite films”**. Carbohydrate Polymers 02/2014;, DOI:10.1016/j.carbpol.2013.11.030
- P_14. Charalambos G. Skoutelis, **Aris E. Giannakas**, Maria Antonopoulou, Yiannis Deligiannakis, Ioannis K. Konstantinou: **“Mechanism of Synergistic Photocatalytic Cr(VI)-reduction and Benzoic Acid Oxidation by Visible Light Active TiO_2 Photocatalysts”**. Journal of

- Advanced Oxidation Technologies 07/2014;, DOI:10.1515/jaots-2014-0205
- P_15. Aris Giannakas, Kalouda Grigoriadi, Areti Leontiou, Nektaria-Marianthi Barkoula, Athanasios Ladavos: **“Preparation, characterization, mechanical and barrier properties investigation of chitosan-clay nanocomposites”**. Carbohydrate Polymers 08/2014; 108:103-111., DOI:10.1016/j.carbpol.2014.03.019
- P_16. Kalouda Grigoriadi, Aris, Giannakas, Athanasios K Ladavos, Nektaria-Marianthi Barkoula: **“Interplay between processing and performance in chitosan-based clay nanocomposite films”**. Polymer Bulletin 02/2015; 72(5), DOI:10.1007/s00289-015-1329-
- P_17. Vasiliki Makrigianni, Aris Giannakas, Yiannis Deligiannakis, Ioannis Konstantinou: **“Adsorption of phenol and methylene blue from aqueous solutions by pyrolytic tire char: Equilibrium and kinetic studies”**. Journal of Environmental Chemical Engineering 03/2015; 3(1):574-582., DOI:10.1016/j.jece.2015.01.006
- P_18. V Makrigianni, A Giannakas, C Daikopoulos, Y Deligiannakis, I Konstantinou: **“Preparation, characterization and photocatalytic performance of pyrolytic-tire-char/TiO₂ composites, toward phenol oxidation in aqueous solutions”**. Applied Catalysis B Environmental 03/2015; 174-175:244-252., DOI:10.1016/j.apcatb.2015.03.007
- P_19. Aris Giannakas, Maria Vlach, Constantinos Salmas, Areti Leontiou, Petros Katapodis, Haralambos Stamatis, Nektaria-Marianthi Barkoula, Athanasios Ladavos: **“Preparation, characterization, mechanical, barrier and antimicrobial properties of chitosan/PVOH/clay nanocomposites”**. Carbohydrate Polymers 12/2015; 140., DOI:10.1016/j.carbpol.2015.12.072
- P_20. Maria Vlach, Aris Giannakas, Petros Katapodis, Haralambos Stamatis, Athanasios Ladavos, Nektaria-Marianthi Barkoula: **“On the efficiency of oleic acid as plasticizer of chitosan/clay nanocomposites and its role on thermo-mechanical, barrier and antimicrobial properties - Comparison with glycerol”**. Food Hydrocolloids 01/2016; 57., DOI:10.1016/j.foodhyd.2016.01.003
- P_21. M. Antonopoulou, P. Karagianni, A. Giannakas, V. Makrigianni, E. Mouzourakis, Y. Deligiannakis, I. Konstantinou: **“Photocatalytic degradation of phenol by char/N-TiO₂ and char/N-F-TiO₂ composite photocatalysts”**. Catalysis Today 05/2016;, DOI:10.1016/j.cattod.2016.03.054

- P_22. **A.E. Giannakas**, M. Antonopoulou, C. Daikopoulos, Y. Deligiannakis, I. Konstantinou: **“Characterization and catalytic performance of B-doped, B-N co-doped and B-N-F tri-doped TiO₂ towards simultaneous Cr(VI) reduction and benzoic acid oxidation”**. Applied Catalysis B Environmental 05/2016; 184:44-54., DOI:10.1016/j.apcatb.2015.11.009
- P_23. M. Antonopoulou, I. Chondrodinou, F. Bairamis, **A. Giannakas**, I. Konstantinou: **“Photocatalytic reduction of Cr (VI) by char/TiO₂ composite photocatalyst: optimization and modeling using the response surface methodology (RSM)”**. Environmental Science and Pollution Research 05/2016; 24(2)., DOI:10.1007/s11356-016-6779-x
- P_24. M. Antonopoulou, **A. Giannakas**, F. Bairamis, M. Papadaki, I. Konstantinou: **“Degradation of organophosphorus flame retardant Tris (1-chloro-2-propyl) phosphate (TCPP) by visible light N,S-co-doped TiO₂ photocatalysts”**. DOI:10.1016/j.cej.2016.06.124
- P_25. Vassiliki Makrigianni, **Aris Giannakas**, Feidias Bairamis, Maria Papadaki, Ioannis Konstantinou: **“Adsorption of Cr(VI) from aqueous solutions by HNO₃ -purified and chemically activated pyrolytic tire char”**. Journal of Dispersion Science and Technology 08/2016; 38(7)., DOI:10.1080/01932691.2016.1216862
- P_26. **Aris Giannakas**, A. Patsoura, N.-M. Barkoula, A. Ladavos: **“A novel solution blending method for using olive oil and corn oil as plasticizers in chitosan based organoclay nanocomposites”**. Carbohydrate Polymers 10/2016; 157., DOI:10.1016/j.carbpol.2016.10.020
- P_27. A Koltsakidou, M Antonopoulou, E Evgenidou, I Konstantinou, **A.E. Giannakas**, M Papadaki, D Bikiaris, D.A. Lambropoulou, bullet N Tio, Barcelo: **“Photocatalytical removal of fluorouracil using TiO₂ -P25 and N/S doped TiO₂ catalysts: A kinetic and mechanistic study”**. Science of The Total Environment 11/2016; 578., DOI:10.1016/j.scitotenv.2016.08.208
- P_28. V. Makrigianni, **A. Giannakas** D. Hela M. Papadaki I. Konstantinou: **“Adsorption of methylene blue dye by pyrolytic tire char in fixed-bed column”**. Desalination and water treatment 03/2017; 65:346–358., DOI:10.5004/dwt.2017.20340
- P_29. **A.E. Giannakas**, M. Antonopoulou, J. Papavasiliou, Y. Deligiannakis, I. Konstantinou: **“Photocatalytic performance of Pt-TiO₂, Pt-N-TiO₂ and Pt-N/F-TiO₂ towards simultaneous Cr(VI) reduction/benzoic acid oxidation: Insights into photogenerated charge carrier dynamics and**

- catalyst properties**". Journal of Photochemistry and Photobiology A: Chemistry 08/2017; 349., DOI:10.1016/j.jphotochem.2017.08.066
- P_30. Aris Giannakas*, Ioannis Tsagalias, Dimitris S. Achilias, Athanasios Ladavos: "A novel method for the preparation of inorganic and organo-modified montmorillonite essential oil hybrids". Applied Clay Science 09/2017; 145:362–370., DOI:10.1016/j.clay.2017.06.018
- P_31. A. Giannakas, F. Bairamis, I. Papakostas, T. Zerva, I. Konstantinou: "Evaluation of TiO₂/V₂O₅ and N,F-doped-TiO₂/V₂O₅ nanocomposite photocatalysts towards reduction of Cr(VI) and oxidation reactions by OH radicals". DOI:10.1016/j.jiec.2018.05.008
- P_32. Vasiliki Chalkia, Nikolaos Tachos, Pavlos K. Pandis, Aris Giannakas, Maria K. Koukou, Michalis Gr. Vrachopoulos, Luis Coelho, Athanasios Ladavos and Vassilis N. Stathopoulos: "Influence of organic phase change materials on the physical and mechanical properties of HDPE and PP polymers". RSC Adv., 2018, 8, 27438, DOI: 10.1039/c8ra03839b.
- P_33. Katerina Katerinopoulou, Aris Giannakas*, Nektaria-Marianthi Barkoula & Athanasios Ladavos: "Preparation, characterization and biodegradability assessment of Maize starch-(PVOH)/Clay nanocomposite films". Starch - Stärke 2018, 1800076 DOI: 10.1002/star.201800076.
- P_34. Aris Giannakas*, Martha Pissanou: "Chitosan/Bentonite nanocomposites for wastewater treatment: A Review". SF Journal of Nanochemistry and Nanotechnology, published 26 Nov. 2018
- P_35. Panagiotis – Spyridon Konstas, Dimitra Hela, Aris Giannakas, Albanis Triantafyllos & Ioannis Konstantinou. "Photocatalytic degradation of organophosphate flame retardant TBEP: kinetics and identification of transformation products by orbitrap mass spectrometry". International Journal of Environmental Analytical Chemistry, (2019). <https://doi.org/10.1080/03067319.2019.1593399>
- P_36. Maria Solakidou, Aris Giannakas, Yiannis Georgiou, Maria Louloudi, Yiannis Deligiannis: "Efficient photocatalytic water-splitting performance by ternary CdS/Pt-N-TiO₂ and CdS/Pt-N,F-TiO₂: interplay between CdS photo corrosion and TiO₂-doping" Applied Catalysis B: Environmental. 254 (2019) 194-205. <https://doi.org/10.1016/j.apcatb.2019.04.091>
- P_37. Aris Giannakas*: Constantinos Salmas Areti Leontiou, Dimitrios Tsimogiannis, Antigoni Oreopoulou and Joerg Brauhli. "Novel LDPE/Chitosan Rosemary and Melissa Extract Nanostructured Active

- Packaging Films” Nanomaterials (Special Issue: Nanostructured Materials and Natural Extract) 9(8):1105,**
<https://doi.org/10.3390/nano9081105>
- P_38. Aris Giannakas***: Panayota Stathopoulou, George Tsiamis and Constantinos Salmas: “**The effect of preparation procedure in packaging performance of chitosan/thyme oil/montmorillonite nanocomposite films**”. *Journal of Food Processing and Preservation*. 44(2) 2020, 1-15. <https://doi.org/10.1111/jfpp.14327>.
- P_39. O. Boura-Theodoridou, A. Giannakas, P. Katapodis, H. Stamatis, Athanasios Ladavos: Nektaria-Marianthi Barkoula: “Effect of ZnO growth on the morphological, mechanical, barrier and antimicrobial properties of chitosan-based films for food packaging applications”.** *Food Packaging and Shelf Life* 23 (2020) 100456.
<https://doi.org/10.1016/j.fpsl.2019.100456>
- P_40. Aris Giannakas***: “**Na-Montmorillonite Vs. Organically Modified Montmorillonite as Essential Oil Nanocarriers for Melt-Extruded Low-Density Poly-Ethylene Nanocomposite Active Packaging Films with a Controllable and Long-Life Antioxidant Activity.**” *Nanomaterials Special Issue Nanomaterials for Food Packaging* 10 (6), 1027.
<https://doi.org/10.3390/nano10061027>
- P_41. Constantinos Salmas*, Aris Giannakas*, Petros Katapodis, Areti Leontiou, Dimitrios Moschovas, Andreas Karydis-Messinis, “Development of ZnO/Na-Montmorillonite Hybrid Nanostructures Used for PVOH/ZnO/Na-Montmorillonite Active Packaging Films Preparation via a Melt-Extrusion Process”** *Nanomaterials Special Issue Nanomaterials for Food Packaging* 10 (6), 1079.
<https://doi.org/10.3390/nano10061079>
- P_42. Dimitrios Gournis and Michael A. Karakassides Vasilis Kostas, Maria Baikousi, Nektaria-Marianthi Barkoula, Aris Giannakas, Antonios Kouloumpis, Apostolos Avgeropoulos, “Synthesis, Characterization and Mechanical Properties of Nanocomposites Based on Novel Carbon Nanowires and Polystyrene”** *Applied Sciences* 10 (17), 5737.
<https://doi.org/10.3390/app10175737>
- P_43. CE Salmas*, AE Giannakas*, M Baikousi, A Leontiou, Z Siasou, MA Karakassides, “Development of Poly (L-Lactic Acid)/Chitosan/Basil Oil Active Packaging Films via a Melt-Extrusion Process Using Novel Chitosan/Basil Oil Blends.”** *Processes Special Issue Multifunctional Hybrid Materials Based on Polymers: Design and Performance*, 2021, 9, 88. <https://doi.org/10.3390/pr9010088>

- P_44. Aris E Giannakas*, Constantinos E Salmas*, Areti Leontiou, Maria Baikousi, Dimitrios Moschovas, Georgios Asimakopoulos, Nikolaos E Zafeiropoulos, Apostolos Avgeropoulos, **“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 Special Issue: Food Packaging Strategies for Enhancing Food Product Shelf Life*, 26 (6), 1585.
<https://doi.org/10.3390/molecules26061585>
- P_45. Ioannis S Tsagkalias, Alexandra Loukidi, Stella Chatzimichailidou, Constantinos E Salmas, Aris E Giannakas, Dimitris S Achilias, **“Effect of Na-and Organo-Modified Montmorillonite/Essential Oil Nanohybrids on the Kinetics of the In Situ Radical Polymerization of Styrene”** *Nanomaterials Special Issue Nanomaterials for Food Packaging*, 11 (2), 474. <https://doi.org/10.3390/nano11020474>
- P_46. Athanasios Ladavos, Aris E Giannakas, Panagiotis Xidas, Dimitrios J Giliopoulos, Maria Baikousi, Dimitrios Gournis, Michael A Karakassides, Konstantinos S Triantafyllidis, **“Preparation and Characterization of Polystyrene Hybrid Composites Reinforced with 2D and 3D Inorganic Fillers”** *Micro* 1 (1), 3-14. <https://doi.org/10.3390/micro1010002>
- P_47. Aris E. Giannakas,* Constantinos E. Salmas,* Andreas Karydis-Messinis, Dimitrios Moschovas, Eleni Kollia, Vasiliki Tsigkou, Charalampos Proestos, Apostolos Avgeropoulos and Nikolaos E. Zafeiropoulos **“Nanoclay and polystyrene type efficiency on the development of polystyrene/montmorillonite/oregano oil antioxidant active packaging nanocomposite films”** *Applied Sciences Special Issue Antioxidants in Natural Products II*, 2021, 11(20), 9364.
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- P_48. Constantinos E. Salmas,* Aris E. Giannakas, Maria Baikousi, Eleni Kollia, Vasiliki Tsigkou and Charalampos Proestos **“Effect of Copper and Titanium-Exchanged Montmorillonite Nanostructures on the Packaging Performance of Chitosan/Poly-Vinyl-Alcohol-Based Active Packaging Nanocomposite Films.”** *Foods Special Issue Current Trends in Biopolymer-Based Films and Coatings for Food Packaging*, 2021, 10, 3038. <https://doi.org/10.3390/foods10123038>
- P_49. Aris E. Giannakas*, Constantinos E. Salmas*, Areti Leontiou, Dimitrios Moschovas, Maria Baikousi, Eleni Kollia, Vasiliki Tsigkou, Anastasios Karakassides, Apostolos Avgeropoulos, Charalampos Proestos. **“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*/MDPI, Section: Natural Products Chemistry, Special Issue: Essential Oils: Biological Activities and New Possible Applications.” <https://doi.org/10.3390/molecules27041231>

- P_50. Aris E. Giannakas*, Constantinos E. Salmas*, Dimitrios Moschovas, Maria Baikousi, Eleni Kollia, VasilikiTsigkou, Anastasios Karakassides, Areti Leontiou, George Kehayias, Apostolos Avgeropoulos, Charalampos Proestos* «**Nanocomposite films development based on chitosan/poly-vinyl-alcohol using ZnO@montmorillonite and ZnO@Halloysite hybrid nanostructures for active food packaging applications**» *Nanomaterials* MDPI special issue *Nanomaterials for Food Packaging* *Nanomaterials* 2022, 12, 1843.
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- P_51. Panagiotis Ziogas, Alexios P Douvalis, Athanasios B Bourlinos*, Christina Papachristodoulou, Nikolaos Chalmpes, Michael A Karakassides, Aris E Giannakas, Constantinos E Salmas*, “**Isolation, Characterization and Hydrogen Sulfide H₂S Sorption Properties at Room Temperature of Magnetite Sludge from Radiator**”, *Journal of Nanotechnology Research* 2022; 4 (2): 97-110 DOI: 10.26502/jnr.2688-85210032.
- P_52. Aris E. Giannakas*, Constantinos E. Salmas*, Dimitrios Moschovas, Konstantinos Zaharioudakis, Stavros Georgopoulos, Georgios Asimakopoulos, Anastasios Aktypis, Charalampos Proestos, Anastasios Karakassides, Apostolos Avgeropoulos, Nikolaos E. Zafeiropoulos, George-John Nychas, “**The increase of soft cheese shelf-life packaged with edible films based on novel hybrid nanostructures**” *Gels*/MDPI, Special Issue: Bioactive Gel Films and Coatings Applied in Active Food Packaging, 2022, 8, 539.
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- P_53. Constantinos E Salmas*, Aris E Giannakas*, Dimitrios Moschovas, Eleni Kollia, Stavros Georgopoulos, Christina Gioti, Areti Leontiou, Apostolos Avgeropoulos, Anna Kopsacheili, Learda Avdylaj, Charalampos Proestos, “**Kiwi Fruits Preservation Using Novel Edible Active Coatings Based on Rich Thymol Halloysite Nanostructures and Chitosan/Polyvinyl Alcohol Gels**”, *Gels* 2022, 8(12), 823;
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- P_54. Aris E Giannakas*, Constantinos E Salmas*, Dimitrios Moschovas, Vassilios K Karabagias, Ioannis K Karabagias, Maria Baikousi, Stavros Georgopoulos, Areti Leontiou, Katerina Katerinopoulou, Nikolaos E Zafeiropoulos, Apostolos Avgeropoulos, “**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(2), 282;
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- P_55. Constantinos E Salmas*, Aris E Giannakas*, Vassilios K Karabagias, Dimitrios Moschovas, Ioannis K Karabagias, Christina Gioti, Stavros Georgopoulos, Areti Leontiou, George Kehayias, Apostolos Avgeropoulos, Charalampos Proestos, “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;
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