

Personal Information

Surname: Pappa
Name: Georgia
Date of birth: 23-08-1969
Work address: Laboratory of Thermodynamics and transport Phenomena,
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Education

Studies
1993: Diploma of Chemical Engineering, Aristotle University of Thessaloniki
2002: Doctoral Dissertation
Phase Equilibrium in Polymer Solutions: Modeling and Application in Polymer Solutions
School of Chemical Engineering, National Technical University of Athens

Foreign Languages
English (First Certificate in English)
Italian (Certificato di Conoscenza della Lingua Italiana (CELI 3))

Professional Experience

2014 - today Laboratory Teaching Staff
School of Chemical Engineering, NTUA

2001 - 2014 Employee of NTUA

1993 - 2001 Freelancer - Researcher

Teaching Work

- Teaching the following undergraduate courses of the School of Chemical Engineering, NTUA:
 - [Thermodynamics II](#), 3rd semester: Computational exercises
 - [Unit Operations I and II](#) (5th and 6th Semester): Distillation Laboratory
 - [Advanced Thermodynamics](#) (8th semester): Computational and laboratory exercises
 - [Sustainable Management of Energy Systems](#): (10th semester). Computational exercises
- Supervision and scientific support of diploma thesis and doctoral dissertations, at the Thermodynamics & Transport Phenomena Laboratory, School of Chemical Engineering, NTUA.

Research Work

- Modeling of thermodynamic properties of pure compounds, and simple and complex mixtures
- Experimental measurements of thermodynamic properties and phase equilibrium
- Development, simulation and optimization of separation processes

Publications in journals	29
Communications in Conferences	>60
Book Chapters	1
Number of References	>850
h-index (Scopus 2024)	16

Book Chapters

E. Voutsas, N. Novak, V. Louli, G. Pappa, E. Petropoulou, C. Boukouvalas, E. Panteli, E. Skouras.
Thermodynamic modelling of natural gas and gas condensate mixtures, in: Natural Gas Processing from Midstream to Downstream, 1st Edition, Wiley 2019.

Publications

1. Kastanidis, P., Romanos, G.E., Stubos, A.K., Pappa, G., Voutsas, E., Tsimpanogiannis, I.N. Evaluation of a Simplified Model for Three-Phase Equilibrium Calculations of Mixed Gas Hydrates. *Energies*, 2024, 17(2), 440
2. Kallitsis, K., Koulocheris, V., Pappa, G., Voutsas, E. Evaluation of water + imidazolium ionic liquids as working pairs in absorption refrigeration cycles. *Applied Thermal Engineering*, 2023, 233, 121201
3. Boli, E., Prinos, N., Louli, V., Pappa, G., Stamatis, H., Magoulas, K., Voutsas, E. Recovery of Bioactive Extracts from Olive Leaves Using Conventional and Microwave-Assisted Extraction with Classical and Deep Eutectic Solvents. *Separations*, 2022, 9(9), 255
4. Prinos, N., Boli, E., Louli, V., Pappa, G., Magoulas, K., Voutsas, E. Solubilities of caffeic acid and tyrosol in two protic ionic liquids and one deep eutectic solvent. *Fluid Phase Equilibria*, 2022, 559, 113462
5. Georgiopoulou, I., Tzima, S., Pappa, G.D., Louli, V., Magoulas, K., Voutsas, E. Experimental design and optimization of recovering bioactive compounds from chlorella vulgaris through conventional extraction. *Molecules*, 2022, 27(1), 29
6. Georgiopoulou, I., Pappa, G.D., Vouyiouka, S.N., Magoulas, K. Recycling of post-consumer multilayer Tetra Pak® packaging with the Selective Dissolution-Precipitation process. *Resources, Conservation and Recycling*, 2021, 165, 105268
7. Boli, E., Savvidou, M., Logothetis, D., Louli, V., Pappa, G., Voutsas, E., Kollis, F., Magoulas, K. Magnetic harvesting of marine algae *Nannochloropsis oceanica*. *Separation Science and Technology (Philadelphia)*, 2021, 56(4), 730–737
8. Petropoulou, E.G., Carollo, C., Pappa, G.D., Caputo, G., Voutsas, E.C. Sensitivity analysis and process optimization of a natural gas dehydration unit using triethylene glycol. *Journal of Natural Gas Science and Engineering*, 2019, 71, 102982
9. Plakia, A., Pappa, G., Voutsas, E. Modeling of CO₂ solubility in aqueous alkanolamine solutions with an extended UMR-PRU model. *Fluid Phase Equilibria*, 2018, 478, 134–144
10. Petropoulou, E., Pappa, G.D., Voutsas, E. Modelling of phase equilibrium of natural gas mixtures containing associating compounds. *Fluid Phase Equilibria*, 2017, 433, 135–148
11. Skylogianni, E., Novak, N., Louli, V., Pappa, G., Boukouvalas, Ch., Skouras, S., Solbraa, E., Voutsas, E. Measurement and prediction of dew points of six natural gases. *Fluid Phase Equilibria*, 2015, 424, 8–15

12. Louli, V., Pappa, G., Boukouvalas, C., Skouras, S., Solbraa, E., Christensen, K.O., Voutsas, E. Measurement and prediction of dew point curves of natural gas mixtures. *Fluid Phase Equilibria*, 2012, 334, 1–9
13. Pappa, G.D., Louli, V., Dedousi, K., Voutsas, E.C. Phase equilibria of mixtures containing CO₂ and organic acids using the UMR-PRU model. *Journal of Supercritical Fluids*, 2011, 58(3), 321–329
14. Voutsas, E.C., Pamouktsis, C., Argyris, D., Pappa, G.D. Measurements and thermodynamic modeling of the ethanol-water system with emphasis to the azeotropic region. *Fluid Phase Equilibria*, 2011, 308(1-2), 135–141
15. Alevizou, E.I., Pappa, G.D., Voutsas, E.C. Prediction of phase equilibrium in mixtures containing ionic liquids using UNIFAC. *Fluid Phase Equilibria*, 2009, 284(2), 99–105
16. Pappa, G.D., Perakis, C., Tsimpanogiannis, I.N., Voutsas, E.C. Thermodynamic modeling of the vapor-liquid equilibrium of the CO₂/H₂O mixture. *Fluid Phase Equilibria*, 2009, 284(1), 56–63
17. Katsoulotos, G., Pappa, G., Tarantili, P.A., Magoulas, K. Preparation and characterization of functionalized low density polyethylene matrix biocomposites. *Polymer Engineering and Science*, 2008, 48(5), 902–911
18. Voutsas, E., Perakis, C., Pappa, G., Tassios, D. An evaluation of the performance of the Cubic-Plus-Association equation of state in mixtures of non-polar, polar and associating compounds: Towards a single model for non-polymeric systems. *Fluid Phase Equilibria*, 2007, 261(1-2), 343–350
19. Baroulaki, I., Mergos, J.A., Pappa, G., Tarantili, P.A., Economides D., Magoulas, K., Dervos, C.T. Performance of polyolefin composites containing recycled paper fibers. *Polymers for Advanced Technologies*, 2006, 17(11-12), 954–966
20. Baroulaki, I., Karakasi, O., Pappa, G., Tarantili, P.A., Economides, D., Magoulas, K. Preparation and study of plastic compounds containing polyolefins and post used newspaper fibers. *Composites Part A: Applied Science and Manufacturing*, 2006, 37(10), 1613–1625
21. Pappa, G.D., Anastasi, C., Voutsas, E.C. Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions. *Fluid Phase Equilibria*, 2006, 243(1-2), 193–197
22. Voutsas, E.C., Pappa, G.D., Magoulas, K., Tassios, D.P. Vapor liquid equilibrium modeling of alkane systems with Equations of State: simplicity versus complexity. *Fluid Phase Equilibria*, 2006, 240(2), 127–139
23. Pappa, G.D., Voutsas, E.C., Magoulas, K., Tassios, D.P. Estimation of the differential molar heat capacities of organic compounds at their melting point. *Industrial and Engineering Chemistry Research*, 2005, 44(10), 3799–3806
24. Voutsas, E.C., Pappa, G.D., Boukouvalas, C.J., Magoulas, K., Tassios, D.P. Miscibility in Binary Polymer Blends: Correlation and Prediction. *Industrial and Engineering Chemistry Research*, 2004, 43(5), 1312–1321
25. Tritopoulou, E.A., Pappa, G.D., Voutsas, E.C., Economou, I.G., Tassios, D.P. Modeling of liquid-liquid phase equilibria in aqueous solutions of poly(ethylene glycol) with a UNIFAC-based model. *Industrial and Engineering Chemistry Research*, 2003, 42(21), 5399–5408
26. Pappa, G., Boukouvalas, C., Giannaris, C., Ntaras, N., Zografos, V., Magoulas, K., Lygeros, A., Tassios, D. The selective dissolution/precipitation technique for polymer recycling: A pilot unit application. *Resources, Conservation and Recycling*, 2001, 34(1), 33–44
27. Pappa, G.D., Voutsas, E.C., Tassios, D.P. Liquid-liquid phase equilibrium in polymer-solvent systems: Correlation and prediction of the polymer molecular weight and the pressure effect. *Industrial and Engineering Chemistry Research*, 2001, 40(21), 4654–4663

28. Pappa, G.D., Voutsas, E.C., Tassios, D.P. Prediction of activity coefficients in polymer and copolymer solutions using simple activity coefficient models. *Industrial and Engineering Chemistry Research*, 1999, 38(12), 4975–4984
29. Pappa, G.D., Kontogeorgis, G.M., Tassios, D.P. Prediction of Ternary Liquid-Liquid Equilibria in Polymer-Solvent-Solvent Systems. *Industrial and Engineering Chemistry Research*, 1997, 36(12), 5461–5466

Research projects (indicatively)

- *Gas processing and Liquefied Natural Gas Technologies: Simulator development / Process design with the UMR-PRU model*
STATOIL S.A., Norway, 2011-2015
- *CO2TRACCS: CO2 Transportation Risk Assessment for Carbon Capture and Storage*
BS-ERA.NET, DLR-JCS (GTET), 2011- 2014
- *Recovery of PVC and/or plasticizers from post-used PVC flooring.*
EuPC/EPFLOOR (European PVC Floor Manufacturers, Belgium), 2014-2015
- *Gas processing and Liquefied Natural Gas Technologies: Thermodynamic Modelling of trace components for reservoir fluids.*
STATOIL S.A., Norway, 2016 –2017
- *NANOCEUTICALS: Development of innovative cosmetology products and dietary supplements with nanoencapsulation of natural bioactive ingredients.*
ESPA 2014 – 2020. 2018-2021
- *CIRCULAR FLOORING: New products from waste PVC flooring and safe end-of-life treatment of plasticisers.*
HORIZON 2020, 2019-2024
- *ENDORSE-EOR: Integrated management of sour gas & reinjection into the 'Prinos' hydrocarbon reservoir for enhanced oil recovery.*
ESPA 2014-2020, 2021-2023
- *PRECYCLING: Plastics Recycling from and for home appliances, toys, and textile.*
HORIZON, 2022-2026

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