

## CURRICULUM VITAE

---

### PERSONAL INFORMATION

**SURNAME** : Louli  
**FIRST NAME** : Vasiliki  
**DATE OF BIRTH** : 16-11-1974  
**PLACE OF BIRTH** : Athens, Greece  
**NATIONALITY** : Hellenic  
**MARITAL STATUS** : Married  
**TELEPHONE** : +30 210 772 3137 (work)  
**E-MAIL** : svlouli@chemeng.ntua.gr

### EDUCATION

**1998-2004**

#### **Doctoral Dissertation**

*Development of the Supercritical Fluid Extraction Technique and Applications in the Recovery of Natural Product*

Thermodynamics and Transport Phenomena Laboratory (TTPL)  
School of Chemical Engineering, National Technical University of Athens (NTUA)

#### **Scholarships – Awards**

1. Scholarship from the Eugenides Foundation for the academic year 1998-1999
2. Scholarship from the Institute of Communication and Computer Systems (ICCS), NTUA, for the academic year 1999-2000
3. “D. Thomaidis” award for the article, *Supercritical Fluid Extraction of Celery Seed Oil*, published in the international scientific journal, *J. Supercrit. Fluids* (2000).
4. “D. Thomaidis” award for the communication, *Solubility of Antioxidants in Supercritical Carbon Dioxide*, presented in the 19<sup>th</sup> European Seminar on Applied Thermodynamics (Santorini, September 2002).
5. “D. Thomaidis” award for the article, *Extraction of parsley seed oil by supercritical CO<sub>2</sub>*, published in the international scientific journal *J. Supercrit. Fluids* (2004).

**1992-1997**

#### **Diploma in Chemical Engineering**

School of Chemical Engineering, National Technical University of Athens (NTUA).  
Grade: “Excellent” 9.27/10 (graduated second out of 150)

- Diploma Thesis: “*Phase Equilibrium in Polymer Solutions with a Cubic Equation of State*”, Thermodynamics and Transport Phenomena Laboratory, School of Chem. Eng., NTUA.
- Specialization: Process Analysis and Plant Design

#### **Scholarships – Awards**

1. Scholarship from National Scholarship Foundation - given to the best three students of each class - for the academic years: 1992-1993 (2<sup>nd</sup>), 1993-1994 (2<sup>nd</sup>), 1994-1995 (1<sup>st</sup>) and

- 1995-1996 (2<sup>nd</sup>).
- 2. Award from Technical Chamber of Greece for the academic years: 1993-1994, 1995-1996 and 1996-1997 (top ten students of the School of Chem. Eng.).
- 3. Zografakis Scholarship (NTUA), given to the best student of each class, for the academic years: 1994-1995 and 1996-1997.
- 4. "D. Thomaidis" award of (NTUA) for the academic year: 1996-1997

## PROFESSIONAL EXPERIENCE

<b>April 2014-now</b>	Laboratory Teaching Staff, Department II, School of Chemical Engineering, NTUA
<b>Dec. 2001-2014</b>	Employee of NTUA
<b>1998-Dec 2001</b>	Freelancer-Research associate of TTPL, NTUA

## PROFESSIONAL SOCIETIES

<b>1998- Now</b>	Member of Technical Chamber of Greece
<b>1998- Now</b>	Member of Hellenic Association of Chemical Engineers
<b>2002- Now</b>	Member of Hellenic Association of Women Engineers

## FOREIGN LANGUAGES

<b>English</b>	Excellent (Certificate of Proficiency in English, University of Cambridge, June 1996)
<b>Italian</b>	Good (Certificato Medio, PALSO, May 1991)
<b>German</b>	Good (Mittelstufe, Goethe Institute, January 2001)

## SPECIAL SKILLS

<b>Programming Language</b>	:	FORTRAN
<b>Operating Systems</b>	:	MS DOS, Windows
<b>Software</b>	:	Ms Word, Ms Excel, Ms PowerPoint, Visio, ASPEN

## OTHER SCIENTIFIC ACTIVITIES

- **Reviewer in more than 10 International Scientific Journals:**
  - ✓ Fluid Phase Equilibria
  - ✓ Journal of Supercritical Fluids
  - ✓ The Canadian Journal of Chemical Engineering
  - ✓ Asia Pacific Journal of Chemical Engineering
  - ✓ Chemical Engineering & Technology
  - ✓ Industrial & Engineering Chemistry Research

- ✓ Journal of Agricultural & Food Chemistry
  - ✓ Bioresource Technology
  - ✓ Karbala International Journal of Modern Science
  - ✓ Industrial Crops and Products
  - ✓ Journal of Chemical & Engineering Data
  - ✓ Chemical Journals
  - ✓ International Journal of Chemical Engineering
  - ✓ Molecules
  - ✓ European Journal of Lipid Science and Technology
- **Member of Committees**
    - 28<sup>th</sup> European Seminar on Applied Thermodynamics, Athens, 11-14 June, 2015.
    - 12<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 29-31 May, 2019.

## RESEARCH WORK

<b>Publications in International Scientific Journals</b>	23
<b>Contributions in Books</b>	2
<b>Communications in International Scientific Conferences</b>	37
<b>Communications in National Scientific Conferences</b>	13
<b>Research projects</b>	27
<b>Citations excluding self-citations (Scopus, December 2020)</b>	>640
<b>h-index (Scopus, December 2020)</b>	10

## PUBLICATIONS IN INTERNATIONAL JOURNALS

1. V. Louli and D. Tassios, *Vapor-Liquid Equilibrium in Polymer-Solvent Systems with a Cubic Equation of State*, Fluid Phase Equilibria, 168 (2000) 165.
2. I. Papamichail, V. Louli and K. Magoulas, *Supercritical Fluid Extraction of Celery Seed Oil*, J. Supercrit. Fluids, 18 (2000) 213.
3. Ch. Boukouvalas, V. Louli and K. Magoulas, *Bench-scale Application of Supercritical Fluid Extraction for the Removal of Phenol from Aqueous Solution*, Separ. Sci. Technol., 36 (2001) 2279. DOI: 10.1081/SS-100105918
4. V. Louli, G. Folas, E. Voutsas and K. Magoulas, *Extraction of Parsley Seed Oil by Supercritical CO<sub>2</sub>*, J. Supercrit. Fluids, 30 (2004) 163. DOI: 10.1016/j.supflu.2003.07.003
5. V. Louli, N. Ragoussis and K. Magoulas, *Recovery of Phenolic Antioxidants from Wine Industry By-Products*, Bioresource Technology, 92 (2004) 201. DOI: 10.1016/j.biortech.2003.06.002
6. C. Perakis, V. Louli, K. Magoulas, *Supercritical Fluid Extraction of Black Pepper Oil*, Journal of Food Engineering, 71 (2005) 386. DOI: 10.1016/j.jfoodeng.2004.10.049
7. E. Voutsas, V. Louli, C. Boukouvalas, K. Magoulas, D. Tassios, *Thermodynamic Property Calculations with the Universal Mixing Rule for EoS/G<sup>E</sup> Models: Results with the Peng-Robinson EoS and a UNIFAC Model*, Fluid Phase Equilibria, 241 (2006) 216. DOI: 10.1016/j.fluid.2005.12.028
8. V. Louli, E. Voutsas, C. Boukouvalas, K. Magoulas, D. Tassios, *Application of the UMR-PRU Model to Multicomponent Systems: Prediction of the Phase Behavior of Synthetic Natural Gas and Oil Systems*, Fluid Phase Equilibria, 261 (2007) 351. DOI: 10.1016/j.fluid.2007.07.025
9. C. Perakis, V. Louli, E. Voutsas, K. Magoulas, *Supercritical CO<sub>2</sub> Extraction of Dittany Oil: Experiments and Modelling*, J. Supercrit. Fluids, 55 (2010) 573. DOI: 10.1016/j.supflu.2010.10.020

10. G.D. Pappa, V. Louli, K. Dedousi, E.C. Voutsas, *Phase equilibria of mixtures containing CO<sub>2</sub> and organic acids using the UMR-PRU model*, J. Supercrit. Fluids, 58 (2011) 321. DOI: 10.1016/j.supflu.2011.07.013
11. V. Louli, G. Pappa, C. Boukouvalas, E. Skouras, E. Solbraa, K.O. Kristensen, E. Voutsas, *Measurement and Prediction of Dew Point Curves of Natural Gas Mixtures*, Fluid Phase Equilibria, 334 (2012) 1. DOI: 10.1016/j.fluid.2012.07.028
12. I. Lemonis, D. Tsimogiannis, V. Louli, E. Voutsas, V. Oreopoulou, K. Magoulas, *Extraction of Dittany (Origanum dictamnus) using supercritical CO<sub>2</sub> and liquid solvent*, J. Supercrit. Fluids 76 (2013) 48. DOI: 10.1016/j.supflu.2013.01.019
13. A. Bampouli, K. Kyriakopoulou, G. Papaefstathiou, V. Louli, M. Krokida, K. Magoulas, *Comparison of different extraction methods of Pistacia lentiscus var. chia leaves: Yield, antioxidant activity and essential oil chemical composition*, Journal of Applied Research on Medicinal and Aromatic Plants, 1(3) (2014) 81-91. DOI: 10.1016/j.jarmp.2014.07.001.
14. A. Bampouli, K. Kyriakopoulou, G. Papaefstathiou, V. Louli, N. Aligiannis, K. Magoulas, M. Krokida, *Evaluation of total antioxidant potential of Pistacia lentiscus var. chia leaves extracts using UHPLC-HRMS*, Journal of Food Engineering, 167, art. no. 7970 (2015) 25-31. DOI: 10.1016/j.jfoodeng.2014.10.021
15. E. Skylogianni, N. Novak, V. Louli, G. Pappa, C. Boukouvalas, E. Skouras, E. Solbraa, E. Voutsas, *Measurement and prediction of dew points of six natural gases*, Fluid Phase Equilibria, 424 (2016) 8-15. DOI: 10.1016/j.fluid.2015.08.025
16. E. Boli, M. Savvidou, D. Logothetis, V. Louli, G. Pappa, E. Voutsas, F. Kolisis, K. Magoulas, *Magnetic harvesting of Nannochloropsis oceanica microalgae cultivations*, Separ. Sci. Technol., 56 (2021) 730-737. DOI: 10.1080/01496395.2017.1296463
17. N. Novak, V. Louli, S. Skouras, E. Voutsas, *Prediction of dew points and liquid dropouts of gas condensate mixtures*, Fluid Phase Equilibria, 457 (2018) 62-73. DOI: 10.1016/j.fluid.2017.10.024
18. V. Koulocheris, V. Louli, E. Panteli, S. Skouras, E. Voutsas, *Modelling of elemental mercury solubility in natural gas components*, Fuel 233 (2018) 558-564. DOI: 10.1016/j.fuel.2018.06.077
19. D. Kavoura, K. Kyriakopoulou, G. Papaefstathiou, E. Spanidi, K. Gardikis, V. Louli, N. Aligiannis, M. Krokida, K. Magoulas, *Supercritical CO<sub>2</sub> extraction of Salvia fruticose*, J. Supercritical Fluids, 146 (2019) 159-164. DOI: 10.1016/j.supflu.2019.01.010
20. N. Novak, V. Louli, E. Voutsas, *Prediction of Vapor-Liquid Equilibrium and Thermodynamic Properties of Natural Gas and Gas Condensates*, Ind. Eng. Chem. Res. 58 (2019) 7370-7388. DOI: 10.1021/acs.iecr.9b00756
21. V. Koulocheris, V. Louli, E. Panteli, S. Skouras, E. Voutsas, *Modelling of hydrogen vapor-liquid equilibrium with oil & gas components*, Fluid Phase Equilibria 494 (2019) 125-134. DOI: 10.1016/j.fluid.2019.04.010
22. V. Koulocheris, M. Panteli, E. Petropoulou, V. Louli, and E. Voutsas, *Modeling of Simultaneous Chemical and Phase Equilibria in Systems Involving Non-reactive and Reactive Azeotropes*, Ind. Eng. Chem. Res. 59 (2020) 8836-8847. DOI: 10.1021/acs.iecr.0c00468
23. M.G. Savvidou, E. Boli, D. Logothetis, Th. Lymperopoulou, A. Ferraro, V. Louli, D. Mamma, D. Kekos, K. Magoulas, G.N. Kolisis, *A study on the effect of macro-and micro-nutrients on nannochloropsis oceanica growth, fatty acid composition and magnetic harvesting efficiency*, Plants, 9 (2020) 660. DOI: 10.3390/plants9050660

### CONTRIBUTIONS IN BOOKS

1. V. Louli, Ch. Boukouvalas and K. Magoulas, *Extractive Applications in Agro-Food Sector*, in: State of the Art Book on Supercritical Fluids, AINIA (Eds.), 2004.
2. 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.

**COMMUNICATIONS IN INTERNATIONAL CONFERENCES**

1. V. Louli and D. Tassios, *Correlation of Vapor-Liquid Equilibrium in Polymer Solutions with a Cubic Equation of State*, 17<sup>th</sup> European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
2. Ch. Boukouvalas, V. Louli and K. Magoulas, *Removal of Phenol from Aqueous Solutions with Supercritical Fluid Extraction*, 17<sup>th</sup> European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
3. G. Folas, I. Papamichail, V. Louli, Ch. Boukouvalas and K. Magoulas, *Supercritical CO<sub>2</sub> Extraction of Celery and Parsley Seed Oil*, 17<sup>th</sup> European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
4. E. C. Voutsas, V. Louli, Ch. Boukouvalas, K. Magoulas and D. Tassios, *Applications of Supercritical Fluids, Chemical Reactions under Extreme Conditions*, CERC-3 Workshop, Arcachon, France, 2000.
5. V. Louli, G. Folas, S. Stamataki and K. Magoulas, *Application of SCFE to the Recovery of Antioxidants from Red Grape Marc*, 18<sup>th</sup> European Seminar on Applied Thermodynamics, Kutna Hora, Czech Republic, June 8-11, 2000.
6. Ch. Boukouvalas, V. Louli and K. Magoulas, *The application of the Supercritical Fluid Extraction in the removal of pollutants from wastewater: the case of phenol*, 7<sup>th</sup> Conference on Environmental Science & Technology, Syros, Greece, 3-6 September, 2001.
7. V. Louli and K. Magoulas, *Solubility of Antioxidants in Supercritical Carbon Dioxide*, 19<sup>th</sup> European Seminar on Applied Thermodynamics, Santorini, Greece, 6-10 September, 2002.
8. C. Perakis, V. Louli and K. Magoulas, *Supercritical Fluid Extraction of Black Pepper Oil*, 20<sup>th</sup> European Symposium on Applied Thermodynamics, Lahnstein, Germany, 8-12 October, 2003.
9. C. Perakis, V. Louli, E. Voutsas, K. Magoulas and D. Tassios, *Modeling of the Water/Ethanol/Carbon Dioxide System with the Cubic Plus Association (CPA) Equation of State*, 21<sup>st</sup> European Symposium on Applied Thermodynamics, Jurata, Poland, 1-5 June, 2005.
10. E. Voutsas, N. Botis, V. Louli, C. Boukouvalas, G. Pappa, K. Magoulas, D. Tassios, *Thermodynamic property calculations with the universal mixing rule for EoS/G<sup>E</sup> models*, 22<sup>nd</sup> European Symposium on Applied Thermodynamics, Elsinore, Denmark, 28 June-1 July 2006.
11. N. Botis, V. Louli, E. Voutsas, G. Caputo, D. Tassios, *Thermodynamic Modelling of the Polystyrene+Cyclohexane+Carbon Dioxide System using the Universal Mixing rule for EoS/G<sup>E</sup> Models and the SANCHEZ-LACOMBE EoS*, 11<sup>th</sup> International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, May 20 - 25, 2007.
12. V. Louli, Ch. Boukouvalas, E. Voutsas, S. Stamataki, K. Magoulas, D. Tassios, *Application of the UMR-PRU Model to Multicomponent Systems: Prediction of the Phase Behavior of Synthetic Natural Gas and Oil Systems*, 11<sup>th</sup> International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, May 20 - 25, 2007.
13. I. Lemonis, V. Louli, E. Voutsas, V. Oreopoulou, K. Magoulas, *Supercritical CO<sub>2</sub> Extraction of Dittany (Origanum Dictamnus) Oil: Study of the Process Parameters and the Extracts' Antioxidant Activity*, 11<sup>th</sup> International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, May 20 - 25, 2007.
14. N. Botis, Y. Fappas, E. Voutsas, V. Louli, G. Caputo, D. Tassios, *Thermodynamic Modelling of the Polystyrene + Cyclohexane + Carbon dioxide system using the Universal Mixing Rule for EoS/G<sup>E</sup> Models and the Sanchez - Lacombe EoS*, 23<sup>rd</sup> European Seminar on Applied Thermodynamics, Cannes, France, May 29 – June 1, 2008.
15. V. Louli, E. Dedoussi, S. Stamataki, K. Magoulas, E. Voutsas, *Thermodynamic Modeling of Phase Equilibrium of CO<sub>2</sub>-Organic Acid Systems Using the UMR-PRU Model*, 23<sup>rd</sup> European Seminar on Applied Thermodynamics, Cannes, France, May 29 – June 1, 2008.
16. E. Skouras, E. Voutsas, V. Louli, E. Solbraa, *Hydrocarbon Dew Point of Synthetic and Real Natural Gas Mixtures with the UMR-PRU Model*, 24<sup>th</sup> European Symposium on Applied Thermodynamics, Santiago de Compostela, Spain, June 27-July 1, 2009.
17. V. Louli, Ch. Perakis, P. Katsis, E. Voutsas, and K. Magoulas, *Extraction of Dittany Oil with Supercritical CO<sub>2</sub>*, 24<sup>th</sup> European Symposium on Applied Thermodynamics, Santiago de Compostela, Spain, June 27-July 1, 2009.

18. E. Panteli, V. Louli, E. Voutsas, and H. Stamatis, *Thermodynamic Study of Solid-Liquid Equilibrium in Mixtures Containing Ionic Liquids*, Thermodynamics 2009, September 23-25, London, UK, 2009.
19. E. Skouras, V. Louli, G. Pappa, Ch. Boukouvalas, E. Solbraa, E. Voutsas, *Dew point prediction of synthetic and real natural gas mixtures with the UMR-PRU model*, CHISA 2010, 28 August- 1 September, Prague, Czech Republic, 2010.
20. G. Pappa, V. Louli, S. Stamataki, K. Magoulas, E. Voutsas, *Thermodynamic Modeling of the Phase Equilibrium of CO<sub>2</sub> – Organic Acid Systems with the UMR-PRU Model*, 25<sup>th</sup> European Symposium on Applied Thermodynamics, Saint Petersburg, Russia, June 24-27, 2011.
21. E. Panteli, G. Pappa, V. Louli, E. Solbraa, E. Skouras, E. Voutsas, *Dew Point Predictions in Natural Gases*, 26<sup>th</sup> European Symposium on Applied Thermodynamics, Potsdam, Germany, October 7-10, 2012.
22. A. Bampouli, K. Kyriakopoulou, G. Papaefstathiou, V. Louli, N. Aligiannis, M. Krokida, K. Magoulas, *Effects on Extraction Methods on the Antioxidant Activity of Pistacia lentiscus var chia Leaves*, 1<sup>st</sup> International Conference on Food Properties (ICFP2014), Kuala Lumpur, Malaysia, January 24-26, 2014.
23. A. Bampouli, K. Kyriakopoulou, G. Papaefstathiou, V. Louli, N. Aligiannis, M. Krokida, K. Magoulas, *Evaluation of total antioxidant potential of Pistacia lentiscus var chia leaves extracts using UHPLC-MS*, 3<sup>rd</sup> International ISEKI Food Conference (ISEKI\_FOOD 2014), Athens, Greece, May 21-23, 2014.
24. G. Papaefstathiou, V. Louli, E. Chaita, E. Voutsas, K. Magoulas, E. Gikas, N. Aligiannis, A. Skaltsounis, *Optimization of the extraction process of Licorice (Glycyrrhiza glabra) roots using supercritical CO<sub>2</sub>*, 9<sup>th</sup> International Symposium on Chromatography of Natural Products, Lublin, Poland, May 26-29, 2014.
25. G. Papaefstathiou, V. Louli, E. Chaita, N. Aligiannis, A. Skaltsounis, E. Voutsas, K. Magoulas, *Optimization of the extraction process of Licorice (Glycyrrhiza glabra) roots using supercritical CO<sub>2</sub>*, 27<sup>th</sup> European Seminar on Applied Thermodynamics, Eindhoven, The Netherlands, 6-9 July, 2014.
26. M. Savvidou, G. Pappa, V. Louli, E. Voutsas, K. Magoulas, F. Kolisis, *Studies on the growth, biochemical composition and downstream processing of microalgae Nannochloropsis sp.*, 27<sup>th</sup> European Seminar on Applied Thermodynamics, Eindhoven, The Netherlands, 6-9 July, 2014.
27. E. Voutsas, N. Novak, V. Louli, G. Pappa, Ch. Boukouvalas, E. Skylogianni, E. Skouras, E. Solbraa, G. A. Evjen, Ch. Aaserud, *Measurement and Prediction of Thermodynamic Properties of Natural Gas Mixtures*, 27<sup>th</sup> European Seminar on Applied Thermodynamics, Eindhoven, The Netherlands, 6-9 July, 2014.
28. E. Boli, M. Savvidou, D. Logothetis, Th. Lymperopoulou, K. Balta-Brouma, G. Pappa, V. Louli, E. Voutsas, K. Magoulas, F. Kolisis, *Investigation of parameters affecting the harvesting and extraction of Nannochloropsis sp.*, 28<sup>th</sup> European Seminar on Applied Thermodynamics, Athens-Greece, 11-14 June, 2015.
29. A. Bletsas, G. Papaefstathiou, V. Louli, E. Voutsas, K. Magoulas, A. Skaltsounis, N. Aligiannis, *Optimization of the extraction process of licorice roots for the production of bioactive products*, 28<sup>th</sup> European Seminar on Applied Thermodynamics, Athens, Greece, 11-14 June, 2015.
30. N. Novak, V. Louli, G. Pappa, Ch. Boukouvalas, E. Voutsas, E. Skouras, E. Solbraa, *Prediction of thermodynamic properties of natural gas and gas condensate mixtures*, 28<sup>th</sup> European Seminar on Applied Thermodynamics, Athens, Greece, 11-14 June, 2015.
31. N. Novak, E. Petropoulou, A. Plakia, K. Pittas, V. Louli, G. Pappa, C. Boukouvalas, E. Voutsas, *Prediction of Dew point and Liquid Dropout of Natural Gas and Gas Condensates*, 29<sup>th</sup> European Seminar on Applied Thermodynamics, Bucharest, Romania, May 18-21, 2017.
32. V. Koulocheris, V. Louli, E. Voutsas, *Phase equilibria of mercury in natural gas using UMR-PRU model*, 29<sup>th</sup> European Seminar on Applied Thermodynamics, Bucharest, Romania, May 18-21, 2017.
33. D. Kavoura, K. Kyriakopoulou, G. Papaefstathiou, V. Louli, K. Gardikis, N. Aligiannis, M. Krokida, E. Voutsas, K. Magoulas, *Extraction of Salvia fruticosa with supercritical CO<sub>2</sub>: Mathematical modelling and comparison with other extraction methods*, 29<sup>th</sup> European Seminar on Applied Thermodynamics, Bucharest, Romania, May 18-21, 2017.
34. I-G. Athanasoulia, V. Louli, P. Schoinas, P. Tarantili, K. Magoulas, *Study of 3D porous structures prepared from poly(lactic acid), via supercritical CO<sub>2</sub> foaming for potential use as scaffolds in tissue engineering*, 28<sup>th</sup> Annual Conference of the European Society for Biomaterials (ESB), Athens, Greece, 04-08 September, 2017.

35. M. Chiliou, E. Petropoulou, E. Spanidi, K. Gardikis, V. Louli, K. Magoulas, *Supercritical fluid extraction of Cistus Creticus: Experiments and Modelling*, 30<sup>th</sup> European Seminar on Applied Thermodynamics, Prague, Czech Republic, June 10-13, 2018.
36. V. Koulocheris, V. Louli, Eleni Panteli, Efstathios Skouras, E. Voutsas, *Predicting the solubility of mercury in hydrocarbons, compressed gases, water and methanol with the UMR-PRU model*, 30<sup>th</sup> European Seminar on Applied Thermodynamics. Prague, Czech Republic, June 10-13, 2018.
37. M.M. Dardavila, M. Savvidou, I. Georgiopoulou, V. Louli, G. Pappa, E. Voutsas, H. Stamatis. K. Magoulas, *Optimization of microalgae biomass magnetic harvesting process*, International Congress of Chemical and Process Engineering, CHISA 2021 (virtually), 15-18 March, 2021.

#### COMMUNICATIONS IN GREEK CONFERENCES

1. V. Louli, G. Folas, I. Papamichail, Ch. Boukouvalas and K. Magoulas, *Extraction of Essential Oils from Celery and Parsley Seeds with Supercritical CO<sub>2</sub>*, 2<sup>nd</sup> Panhellenic Scientific Conference of Chemical Engineering, Thessaloniki, Greece, 27-29 May, 1999.
2. V. Louli, M. Chrysaphis, and M. Magoulas, *Recovery of Antioxidants from Pomace using Super critical CO<sub>2</sub>*, 3<sup>rd</sup> Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 31 May-2 June, 2001.
3. V. Louli, C. Perakis, Ch. Boukouvalas, E. Voutsas and K. Magoulas, *Applications of Supercritical Fluid Extraction in the of Natural Products*, 4<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineer, Patra, Greece, 29-31 May, 2003.
4. D. Antipa, H. Lemonis, V. Louli, E. Voutsas, K. Magoulas, *Study of the Extraction with Supercritical CO<sub>2</sub> and the Antioxidant Activity of Dittany oil (Origanum Dictamnus L.)*, 2<sup>nd</sup> Panhellenic Symposium of Green Chemistry and Sustainable Development, Patra, Greece, 8-10 March, 2007.
5. E. Panteli, G. Pappa, V. Louli, E. Voutsas, *Experimental Measurements and Thermodynamic Modelling of Phase Equilibria of Sugars and Antioxidants in Organic Solvents and Ionic Liquids*, 2<sup>nd</sup> Panhellenic Symposium of Green Chemistry and Sustainable Development, Patra, Greece, 8-10 March, 2007.
6. N. Botis, V. Louli, E. Voutsas, K. Magoulas, G. Caputo, *Applications of Supercritical Fluids in Nanoparticles Production Process. The Role of Thermodynamics in the Design of the Process and Modeling of the Ternary System, CO<sub>2</sub>- Polystyrene- Cyclohexane*, 6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineer, Athens, Greece, 31 May- 2 June, 2007.
7. H. Lemonis, D. Antipa, V. Louli, E. Voutsas, K. Magoulas, G. Kouri, D. Tsimogiannis, V. Oreopoulou, *Recovery of Antioxidants from Dittany (Origanum Dictamnus)*, 6<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineer, Athens, Greece, 31 May- 2 June, 2007.
8. E. Panteli, V. Louli, E. Voutsas, H. Stamatis, *Thermodynamic Study of the Phase Equilibrium in Mixtures containing Ionic Liquids*, 7<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineer, Patra, Greece, 3-5 June, 2009.
9. G. Papaefstathiou, E. Chaita, N. Aligiannis, A. L. Skaltsounis, V. Louli, E. Voutsas, K. Magoulas, *Optimization of the Extraction Process of Bioactive Products from Licorice (Glycyrrhiza glabra) roots using Environmentally Friendly Extraction Methods*, 9<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 23-25 May, 2013.
10. N. Novak, E. Petropoulou, K. Pittas, A. Plakia, V. Louli, G. Pappa, Ch. Boukouvalas, E. Voutsas, *Thermodynamic Modelling and Simulation of Natural Gas Processes*, 10<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Thessaloniki, Greece, 25-27 May, 2017.
11. E. Petropoulou, N. Novak, V. Koulocheris, V. Louli, G. Pappa, Ch. Boukouvalas, E. Voutsas, *Thermodynamic Modelling and Simulation of Natural Gas Processes*, 12<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 29-31 May, 2019.
12. F. Saloustris, M. Poulogiannopoulou, E. Boli, G. Pappa, V. Louli, K. Magoulas, E. Voutsas, *Study of the Extraction of Bioactive Compounds from Olive Leaves*, 12<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 29-31 May, 2019.

13. N. Katsis, M. Chiliou, N. Novak, E. Petropoulou, D. Tsimogiannis, K. Gardikis, Th. Lymperopoulou, V. Louli, V. Oreopoulou, K. Magoulas, *Supercritical Extraction of the plants Cistus Creticus and Sideritis syriaca*, 12<sup>th</sup> Panhellenic Scientific Conference of Chemical Engineering, Athens, Greece, 29-31 May, 2019.

## RESEARCH PROJECTS

1. *Plastics – Integrated Technology*  
Duration: 4 years (1/95 - 12/98)  
Financial Support: GSRT
2. *Improved Lipase Synthesis of Sugar Esters by Combined Enzyme and Solvent Engineering*  
Duration: 32 months (09/98-05/2001)  
Financial Support: BIOTECH E.U.
3. *Enzymatical Transformation of Natural Antioxidants for the Optimization of the of their Recovery Process from Industrial Wastes and the Improvement of their Properties*  
Duration: 32 months (09/98-05/2001)  
Financial Support: GSRT
4. *Application of Biotechnology to the Selective Improvement of the Properties of Mastic Gum and Mastic Gum Oil*  
Duration: 18 months (01/2000-06/2001)  
Financial Support: GSRT
5. *Developments and Applications in Supercritical Fluids in Agriculture and Fisheries (DASFAF Network)*  
Duration: 3 years (06/98-06/2001)  
Financial Support: EU (FAIR-98)
6. *Development of a Pilot Plant for the Supercritical Extraction of Essential Oils from Natural Products*  
Duration: 6 months (09/2001-02/2002)  
Financial Support: GSRT
7. *Study of the hydrogen bonding effect in the solubility of organic compounds in the supercritical carbon dioxide in the presence of co-solvents.*  
Duration: 3 years (11/2002-10/2005)  
Financial Support: Heraklitos, Ministry of Education and Religion
8. *Study-Incorporation of Natural Antioxidants in Effective Foodstuffs and Production of Greek effective Foodstuffs using new Technologies*  
Duration: 6 months (09/2001-02/2002)  
Financial Support: Pythagoras II, Ministry of Education and Religion
9. *Gas processing and Liquefied Natural Gas Technologies*  
Duration: 9 months (07/2009-3/2010)  
Financial Support: STATOILHYDRO S.A., Norway
10. *Gas processing and Liquefied Natural Gas Technologies- Phase II: Prediction of phase equilibrium in hydrocarbon mixtures*  
Duration: 8 months (02/2010-09/2010)  
Financial Support: STATOILHYDRO A.S., Norway
11. *Gas processing and Liquefied Natural Gas Technologies: Simulator development / Process design with the UMR-PRU model*  
Duration: 20 months (05/2011–12/2012)  
Financial Support: STATOIL A.S., Norway
12. *Gas processing and Liquefied Natural Gas Technologies: Further development of the UMR-PRU model/Technical support DLL-file*  
Duration: 24 months (05/2011–7/2013)  
Financial Support: STATOIL A.S., Norway



13. *Gas processing and Liquefied Natural Gas Technologies: Simulator development / Process design with the UMR-PRU model*  
Duration: 24 months (05/2011–7/2013)  
Financial Support: STATOIL A.S., Norway
14. *Optimization of the trash containers' placement and the route of urban solid waste collection vehicles in the Municipality of Lamia*  
Duration: 9 months (03/2012–11/2012)  
Financial Support: Municipality of Lamia, Greece
15. *Gas processing and LNG Technologies*  
Duration: 24 months (03/2013–4/2015)  
Financial Support: STATOIL A.S., Norway
16. *Sustainable Use of the Marine Microalgae for the Production of Biofuels and High-Added Value Biochemicals*  
Duration: 27 months (03/2013–6/2015)  
Financial Support: Synergasia 2011, GSRT
17. *Recovery of PVC and/or Additives from used PVC floors*  
Duration: 18 months (5/2014–6/2017)  
Financial Support: EPFLOOR, European PVC Floor Manufacturers, Belgium
18. *Gas processing and Liquefied Natural Gas Technologies*  
Duration: 23 months (8/2015–6/2017)  
Financial Support: STATOIL A.S., Norway
19. *Gas processing and Liquefied Natural Gas Technologies: Thermodynamic Modelling of trace components for reservoir fluids*  
Duration: 7 months (9/2016–3/2017)  
Financial Support: STATOIL A.S., Norway
20. *Phase and chemical equilibrium modelling of natural gas mixtures containing Hg*  
Duration: 36 months (9/2017–8/2020)  
Financial Support: STATOIL A.S., Norway
21. *Development of innovative cosmetic products and food supplements based on nanoencapsulation of natural bioactive compounds*  
Duration: 36 months (7/2018–7/2021)  
Financial Support: "Research-Create-Innovate", EPAnEK 2014-2020 (ESPA)
22. *Modelling of Hg adsorption in natural gas pipelines*  
Duration: 3 months (7/2018–9/2018)  
Financial Support: Equinor Energy A.S., Norway
23. *Development of nanomagnetic bioreactor for the continuous production of microalgae biomass and high added value products*  
Duration: 36 months (10/2018–10/2021)  
Financial Support: "Research-Create-Innovate", EPAnEK 2014-2020 (ESPA)
24. *Algorithm improvements in NeqSim*  
Duration: 6 months (1/2019–6/2019)  
Financial Support: Equinor Energy A.S., Norway
25. *Improvement proposal for the extended PhaseOpt*  
Duration: 3 months (1/2019–4/2019)  
Financial Support: Equinor Energy A.S., Norway
26. *CIRCULAR FLOORING: New products from waste PVC flooring and safe end-of-life treatment of plasticizers*  
Duration: 48 months (6/2019–6/2023)  
Financial Support: HORIZON 2020
27. *Development of Green Processes for the Recovery of Bioactive Products with anti-ageing and antioxidant Activity from Marine Algae*  
Duration: 36 months (6/2019–6/2022)

Financial Support: "Special Actions: Aquaculture-Industrial Materials-Open Innovation in Culture", GSRT, ESPA 2014-2020

28. Development of a single model for natural gas process simulation

Duration: 31.5 months (5/2020–12/2022)

Financial Support: Equinor Energy A.S., Norway

29. Improvement and extension of PhaseOpt

Duration: 3 months (10/2020–12/2020)

Financial Support: Equinor Energy A.S., Norway