

DRAFT CV

of

Maria Papadaki

PERSONAL DATA

FULL NAME : Dr MARIA PAPADAKI.
PLACE OF BIRTH : PLEMENIANA SELINO CHANIA CRETE.
NATIONALITY: GREEK

ΔΙΕΥΘΥΝΣΗ

1. PERMANENT RESIDENCY : FILOTHEI MESSOLONGHI
30200
AETOLOACARNANIA
 2. WORK : DEPARTMENT OF AGRICULTURE, NEA KTIRIA
MESSOLONGHI 30200
- WORK TELEPHONES : 26410 74184, 26310 58428
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PRESENT POSITION : Professor of Environmental Chemistry & Processes, Agricultural
Department of Patras University.
Head of Agricultural Department

STUDIES :

1. Chemical Engineering, DipEng Degree (1985) "very good", (MEng equiv), Chemical Engineering Department, Aristotle University of Thessaloniki, Greece.
2. Ph.D in the field of transport properties, "excellent", "An Absolute Method for the Measurement of Viscosity of Liquids" :1988-1992, Chemical Engineering Department, Aristotle University of Thessaloniki, Greece.
3. Post-graduate Certificate in Teaching and Learning in Higher Education, Leeds, 2001
4. Member of the Chamber of Greek Engineers

FOREIGN LANGUAGES :ENGLISH
SPANISH

PREVIOUS POSTS

- 12/2009-
12/2009-5/2010 Professor of Environmental Chemistry & Processes,
Univercity of Ioannina, Department of Environmental & Natural Resources
Management.
- 5/2010-7/2013 Univercity of Weteren Greece, Department of Environmental & Natural Resources
Management.
- 7/2013-7/2019 Univercity of Patras, Department of Environmental & Natural Resources
Management..
- 7/2013-5/2019 Univercity of Patras, Department of Environmental Engineering
- 9/2022-
Univercity of Patras, Department of Agriculture
- 9/2005-12/2009 Associate Professor of Environmental Chemistry, Univercity of Ioannina,
Department of Environmental & Natural Resources Management..
- κατ
(Visiting Reader, School of Process, Environmental & Materials Engineering,
University of Leeds, UK)
- 8/2004-8/2005 University of Leeds
School of Process, Environmental and Materials Engineering
Department of Chemical Engineering
Position: Senior Lecturer (Associate Professor)
- 5/1998-8/2004 University of Leeds
School of Process, Environmental and Materials Engineering
Department of Chemical Engineering
Position: Lecturer (Assistant Professor)
- 2/1996-6/1997 Universitat Ramon Llul
Institut Quimíc de Sarrià (IQS)
Departamento de Ingeniería Química
Sección PQAT
Position: Investigadora Superior
- 9/1991-2/1996 University of London
Imperial College of Science, Technology & Medicine
Department of Chemical Engineering & Chemical Technology
Position: Research Associate
- 9/1986-7/1991 Polytechnic of Kavala, Greece
School of Applied technologies
Department of Petroleun Technology
Position: Professor of Applied Technologies
- 1985-1991 Associate of the Hellenic Center of Productivity, Kavala, Greece

BRIEF PRESENTATION OF TEACHING DUTIES

COURSE	Academic Year	Hours per week	Semester /Level	Comments
Mass & Energy Balances	2006-2017 2019-...	6	U/2'	A/C
Transport Phenomena	2006-2013 2019-...	6	U/4	A/C
Risk analysis	2006-2009	3	U/8'	A/E
Atmospheric pollution	2006-2009	3	U/4'	A/C
General & Inorganic Chemistry	2006-2009 2009-2017	3	U/1	S/C
Applied Fluid Mechanic	2005-2006	6	U/4	A/C
An introduction to Transport Phenomena and Transfer Processes	2005-2006	6	U/3	A/C
Plant Economics	2005-2006		U/9	A/E
Process Safety-Health and Safety at Work	2009-2017 2019-...		U/7	A/C
Elements of machines and mechanisms	2022-23		U/6	A/C
Molecular enzymology	2022-23		U/8	A/E
Physical Chemistry	2013-2017		U/6	A/C
Catalytic Processes	2015-2017 2019-...		U/8	A/C
Environmental pollution control methods	2015-2020		U/6	A/C
Introduction to the Science of Biosystems	2020-2022		U/1	A/C
Health and Safety at work	2006-08		MSc	8 h per year
Process Safety and Environment	2018-19		MSc	Environmental Engineering School of Crete
Process safety	36 hour March 2020		MSc	Mines Ales, France

U: Undergraduate

A: Autonomous Teaching

S: Shared teaching

C: Compulsory course

E: Elective course

BRIEF PRESENTATION OF TEACHING DUTIES (Cnt)

Chemical Engineering Department, University of Leeds, UK				
COURSE	YEARS TAUGHT	CREDITS	Level	ΣΧΟΛΙΑ
CENG2160 (Unit Oper.1&2)	1998-99	20 in 120 per year	U/3	A/C
CENG3150 (Reac.Eng.1&2)	1998-99	20 in 120 per year	U/5	A/C
CENG2161(Unit Oper. 1)	1999-02	10 in 120 per year	U/3	A/C
CENG3151(Reaction Eng 1)	1999-05	10 in 120 per year	U/5	A/C
CENG3152(Reaction Eng 2)	1999-05	10 in 120 per year	U/6	A/C
CENG4110(Research Proj.)	2000-02	30 in 120 per year	MEng	co-ordinator
CENG5180(Reaction Eng 1)	1999-05	10 in 40 per year	MSc	A/C
CENG5182(Reaction Eng 2)	1999-05	10 in 40 per year	MSc	A/C
CENG3170 (Sep. Proc. 2)	2002-05	10 in 40 per year	U/3'	50% S/C
CENG5290 (Sep.Proc 2)	2002-05	10 in 40 per year	MSc	A/C
CENG4100 (Multi-disciplinary Design Project)	2002-05	40 in 40 per year	MEng	co-ordinator
Leeds, UK, Supervision of Research and Design Projects_Labs_Tutorials				
PILOT_PLANT	1998-05	20	U/4	2 exp in 10-13
DESIGN_PROJECT_1	1998-05	20	U/5	1-2 groups in 6-10
DESIGN_PROJECT_2	1998-05	20	U/6	1-2 groups in 6-10
CENG4110_SUPERVISION	1998-05	30	Meng/C	1-2 students 15-20
CENG4100 (Multi-disciplinary Design Project)	2003-05	40	Meng/C	S/C
PREN1000	2000-05	20		S/C

U: Undergraduate

A: Autonomous Teaching

S: Shared teaching

C: Compulsory course

E: Elective course

SUPERVISION OF PhD STUDENTS				
Name	Start	TRANSFER	Completion	Title
Sarah.D.Lever	10.2000	10.2001 Successful	11.2004 Successful	Thermal study of the decomposition of 2-nitrobenzoyl chloride, the product of the chlorination of 2-nitrobenzoic acid
Richard.J.Emery	10.2001	10.2002 Successful	09.2005 Successful	Ultrasonic treatment of dilute aqueous organic solutions
Jun Gao	9.2002	10.2003 Successful	10.2006 Successful	The N-oxidation of alkylpyridines using isothermal calorimetry
David R. Stapleton	10.2003	10.2004 Successful	11.2007 Successful	Photolytic and photocatalytic (TiO ₂) destruction of halogenated pyridines in aqueous solutions
Charalambos Skoutelis	7-2007		11.2011 Successful	Photolytic and photocatalytic study of chemical and genotoxic degradation of halogenated pyridines in aqueous solutions.
Stavros Georgopoulos	2013		11/2021 Successful	Photodegradation and synergistic decomposition by plant species of organic pollutants in fluids

Additionally, though without a formal involvement, I have considerably contributed to the supervision of 10 PhD students at Mary Kay Oñ Connor Process Safety Center, Texas A/M University since 2006 until 2020 while I had provided regular consultation to at least 40 PhD candidates during the same period.

UNDERGRADUATE AND POSTGRADUATE RESEARCH PROJECT SUPERVISION

I have supervised approximately 50 undergraduate and postgraduate diploma theses and, research in the fields of process safety, persistent pollutant degradation by advanced oxidation processes and wastewater management.

RESEARCH EXPERIENCE

The main objective of my research for the period 1988-1995 was the development of absolute techniques for the high-precision measurement of transport properties of fluids. Accurate and reliable information on the thermophysical properties of fluids are required for both science and industry. Theoretical models and prediction schemes for thermophysical properties need to be tested against accurate experimental data for representative fluids and fluid mixtures, especially for extreme conditions of pressure and temperature and in the critical region.

12/1987-12/1991: PhD Research, Greece

An absolute vibrating wire viscometer for the measurement of liquids in the pressure range of 0.1-100 MPa and temperature range 300K-400K was designed and constructed. Design of a pressure system (including a pressure vessel) and a thermostatic bath to accommodate the viscometer. The viscosity of aromatic, normal hydrocarbons and hydrocarbon mixtures were measured and the results were used together with those of other investigators to develop correlations and semi-empirical schemes for the prediction of transport properties of liquid hydrocarbon mixtures.

9/1991-10/1992 : Postdoctoral Research, Imperial College, London

Measurement of the thermal conductivity of alternative refrigerants in the liquid phase, in the temperature range 210-293K and near saturation pressure. Project sponsored by ICI.

10/1992-10/1995: Postdoctoral Research, Imperial College, London

Measurement of the thermal conductivity of representative gases (argon, nitrogen and carbon monoxide) in the temperature range of 80K - 400K and for pressures 0.01 MPa - 10 MPa . The results are used to improve and modify theoretical models. EEC project "Fundamental Studies of Thermophysical Properties of Molecular Gases".

4/1994-8/1994: Postdoctoral Research, Imperial College, London and Huntsville, USA

I participated actively in the preparation and operation of the CPF (Critical Point Facility)-IML-2 (International Micro gravity Laboratory-2) experiment, conducted under micro-gravity conditions, for 56 continuous hours inside the spacelab. The objectives of that experiment were the study of the transient heat-transfer and density fluctuations of liquids near the critical point.

10/1994-2/1996: Postdoctoral Research, Imperial College, London

Work on a project entitled "High Temperature Thermal Conductivity of Molten Metals", sponsored by EU, aiming to develop of a high precision method for the measurement of thermal conductivity of molten metals.

2/1996-5/1997: Postdoctoral Research, Institut Qumic de Sarria, Barcelona

Study of homogeneous liquid reactions of industrial interest: Calorimetric studies of certain reaction systems involving hydrogen peroxide as an oxidising agent. Use of calorimetric information only for the development of a simple but still theoretically sound model, capable of reliably predicting the runaway behaviour of the *N*-oxidation reactions of the family of pyridines using hydrogen peroxide, in semibatch reactors. Carefully collected calorimetric data were used. HCM project, "Network on Safety Problems Resulting from Runaway Reactions in the Chemical Industry", sponsored by EU.

5/1998-now

Safety of runaway reactions of industrial interest. Development of reliable kinetic models and generalised criteria on safety.

- Design of experimental procedures for the collection of good quality calorimetric data for the study of a complex reaction system.
- Use of reaction calorimetry and thermal analysis measurements for the development of "simple" kinetic models capable of describing the runaway behaviour of whole families of "condition dependent", highly exothermic industrial reactions with applications especially on batch or semi-batch reactors, which are extensively used in the fine chemicals and pharmaceutical industries.
- Development of generalised criteria for the safety of batch and semi-batch reactors.
- Use of the developed models for the enhancement of processes (simplification of operations, replacement of passive control by active control, minimisation of the energy and materials requirements).
- Experimental validation and further development of existing models on reactor relief systems.
- Evaluation of the influence of the accuracy of the values of thermophysical properties of the fluid mixtures and utilities on the quality of the experimental data obtained and subsequent improvement of the methodologies and the available instrumentation employed, to enhance quality of measurement.

- Process modification and change from discontinuous to continuous reactors with emphasis in the potential of microreactors for a safe and efficient operation when high pressures and high heat generation is expected.
- Boiling reactors and enhancement of the measurement of the heat of reaction under boiling conditions.
- Process intensification, microreactors, supercritical extraction with and without reaction, solid reactions.

Use of advanced oxidation processes (ultrasounds, ultraviolet, Fenton and their combination) for the partial or complete oxidation and destruction of organic pollutants from industrial wastewaters and drinking water.

- Study of the effectiveness of ultrasounds on the partial and total oxidation of organic pollutants: effects of temperature ultrasonic power and initial substrate concentration.
- Study of the effectiveness of ultrasounds on the partial and total oxidation of halogenated pyridines: effects of temperature, volume and initial substrate concentration.
- Study of the effectiveness of UV on the partial and total oxidation of halogenated pyridines: effects of temperature, volume and initial substrate concentration.
- Study of the mechanisms of the photolytic and photocatalytic decomposition of halogenated pyridines.
- Comparative studies of combinations of the above methods
- Scale-up studies for the large scale removal of organic substances
- Modelling of the kinetics of organics destruction by ultrasonic and/or UV irradiation.

Catalytic hydrodechlorination of CFCs

The principal objective of this research program is to develop and characterise highly active metal carbide catalyst to promote the hydrodechlorination of chlorofluorocarbons to environmentally benign compounds.

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Waste biomass valorisation and Phytoremediation

Use of plants for the purification of polluted waters and soils. Adsorption, desorption,
 Natural medicines kind, methods and conditions of extractions for the best quality product
 Further extractions for liquid biofuels production
 Potential of Biogas generation
 Intermediate chemicals for the production of added value products
 Adsorbents production

RESEARCH FUNDING

1. Isothermal and Adiabatic Calorimetric Study of the Kinetics of Reaction Runaway for Agrochemical Intermediates Processes (ref: Bgc185%y), ZENECA Agrochemicals (currently Syngenta or Novartis) £14.000 (10/2000-9/2003)
2. Isothermal and Adiabatic Calorimetric Study of the Kinetics of Reaction Runaway for Agrochemical Intermediates Processes (studentship award no: 480105606) Engineering & Physical Sciences Research Council (EPSRC) £30.000 (10/2000-9/2003)
3. Development of general kinetic models and prediction of runaway consequences of industrial reactions (GR/R14095/01) Engineering & Physical Sciences Research Council (EPSRC) £65.000 (10/2000-9/2003)
4. Kinetic study of an epoxidation reaction using hydrogen peroxide COALITE Chemicals £4.000 in consumables 2/2001-2004
5. Removal of organic pollutants from aqueous effluents by advanced oxidation methods Glaxo Smith Kline Engineering £22500(10/2001-10/2004) with Dr. D. Mantzavinos (PI).
6. Engineering & Physical Sciences Research Council (EPSRC) research studentship: £35000 (10/2001-10/2004).with Dr. D. Mantzavinos (PI)
7. Treatment of halogenated phenol-containing wastewaters by combined chemical and biological oxidation processes. Physical Sciences Research Council (EPSRC) £60.000 (10/2001-10/2003).
8. Synthesis and Characterization of novel type carbide catalysts: Application in Environmental Catalysis. British Council: UK-India Science and Technology Research Fund Programmes £9.000 (10/2001-10/2003)

9. Accident prevention helpline for SMEs, European Agency for Safety and Health at Work, €160,000 (10/2001-10/2002) with Dr. M. Fairweather (University of Leeds), Macedonian Natural Gas (PI), Sigma Consultants, Naturgas Midt-Nord, Viborg, Denmark
- 10 Photolytic and photocatalytic degradation of halogenated pyridines in water, PhD studentship, Physical Sciences Research Council (EPSRC) £40.000 (10/2003-10/2006).
- 11 University of Leeds-Conference travel grant £1000 (May 2004)
- 12 Royal Academy of Engineering-Conference travel grant £500 (March 2005)
13. Development of integrated approaches towards runaway prediction and assessment.(EP/D036186/1) Physical Sciences Research Council (EPSRC) £10.000 (7/2006-10/2006).
14. Development of Advanced Oxidative Processes Using Nanomaterials and Sunlight for Earth Removal of Organic Toxic Substances, Hormone Disruptors and Cystotoxins from Natural Water and Treated Wastewater-Action Thales 2012-2015- Collaborative research Project PI: Prof. T. Albanis University of Ioannina, 600000 €.
15. Development of hybrid micro- and meso-porous materials for technological & environmental applications" (PoroTech) Action Thales 2012-2015 Budget: €600,000 Collaborative research Project PI: Prof. T. Deligiannakis, University of Ioannina.
16. Collaborative research Integrated Process and Product Design for Sustainable Biorefineries, EU HORIZON 2020 RISE Budget: € 594 000 Duration 1-1-2018 έως 31-10-2023 <https://iprobio.sdu.dk/>

ADMINISTRATION

a. GREECE

Jan 2023-now: Head of Department of Agriculture, member of the School of Agricultural Sciences Committee, Member of the University of Patras Senate

July 2019-September 2022: Acting Head of the Department of Biosystems and Agricultural Engineering, member of the School of Agricultural Sciences Committee, Member of the University of Patras Senate

September 2016-October 2017: Deputy Head of the Department of Environmental and Natural Resources Management

2007- now: Member of University and Departmental Committees

2005- now: Member of post-graduate examination boards (external)

2005- now: Member of the selection committees for new University Faculty members

b. UK

4/2003-05: School Examinations Officer.

10/2000-7/2003: *4th year Director of Studies.*

4/1999-10/2000: *Departmental Director of Teaching and Learning.*

5/1998-9/2005: Member of the Departmental Staff/Student Committee

4/1999-9/2005: Member of the Departmental Teaching and Learning Committee

4/1999-9/2005: Member of the School T&L Committee

4/1999-10/2000: Member of the Teaching and Learning Faculty Committee

5/2003-9/2005: Member of the School T&L Committee

Executive tasks: I co-ordinated the collection of all 4th year associated documentation for the IChemE accreditation committee 2001 and 2004.

MISCELLANEOUS

4-5 2023: Visiting researcher, Chemical Engineering Department, UFPR, Parana, Brazil

2006-2020: Member of the Technical Advisory Committee of Mary Kay O' Connor Process Safety Center, Texas A&M University.

2020-now: Faculty Associate of Mary Kay O' Connor Process Safety Center, Texas A&M University.

2006-2020: Visiting Research Engineer, MKOCPSC- Texas A&M for about 3 months each year

7-9 2022: Visiting researcher ITA Aguas Callientes, Mexico

7-9 2019: Visiting researcher ITA Aguas Callientes, Mexico

2009-now: Member of scientific committees of various conferences•

2020 και 2022 International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and to the SECOTOX Conference, Member of the Scientific Committee

2nd European Conference on Environmental Applications of AOPs (EAAOP) held in Cyprus, in 2009: Member of the Scientific Committee.

- 1st European Conference on Environmental Applications of AOPs (EAAOP) held in Chania, Crete in 2006: Member of the Scientific Committee.
- WasteEng05, Albi, France, May 17-19th, 2005: Symposium Discussion Panel and session-chair.
- March 2005-present: Member of the Technical Advisory Committee of Mary Kay O'Connor Process Safety Center.
- Symposium On Complex Processes Modeling Of Complex Processes". March 2005 (2-3) George Bush Presidential Library, College Station, Texas: Member of International Advisory Committee.
- Bhopal Gas Tragedy and its Effects on Process Safety, Kanpur, India 30 Nov-3Dec 2004: conference session chair.
- February 2003: Visiting Professor at the Indian Institute of Chemical Technology, Hyderabad, India.
- Member of "Safety and Loss Prevention", "Applied Catalysis", "Environmental Protection" and "Education" groups of the Institution of Chemical Engineers (IChemE).
- Reviewer (referee) of Topics in Catalysis, Chemical Engineering Research and Design IChemE Transactions A, Process Safety and Environmental Protection –IChemE Transactions B, Separation and Purification Technology, Journal of Molecular Catalysis A, Journal of Petroleum Science & Engineering, Chemosphere, Journal of Hazardous Materials, Water Research, Journal of Loss Prevention in Process Industries Chemical And Biochemical Engineering Quarterly, Chemical Engineering Science 8th International Symposium on Fire Safety Science and also of publishers John Wiley and sons (book reviews).
- Organised scientific seminars of Fluids and Polymer groups during 1995-1996.
- Contribution in organising 5 conferences at Imperial college (3) and Aristotle University of Thessaloniki (2)

Memoranda of understanding

Responsible for three 5 year memoranda of understanding:

- **2020** between the Department of Agriculture and the Union of Agricultural Cooperation Bodies of Messolonghi and Nafpaktia .
- **2021 ITA**, between the Department of Agriculture and Aguascalientes TECNOLOGICO NACIONAL DE MEXICO/INSTITUTO TECNOLOGICO DE AGUASCALIENTES
- **2021 UFPR** between the Department of Agriculture and UNIVERSIDADE FEDERAL DO PARANA (UFPR), Curitiba, Brazil

Reviewer (referee), amongst others

- ✓ Applied Catalysis B: Environmental,
 - ✓ Catalysis Communications,
 - ✓ Chemical and Biochemical Engineering Quarterly,
 - ✓ Chemical Engineering Communications,
 - ✓ Chemical Engineering Journal
 - ✓ Chemical Engineering Research and Design IChemE Transactions A,
 - ✓ Chemical Engineering Science,
 - ✓ Chemosphere,
 - ✓ Environmental Science & Technology
 - ✓ Journal of Molecular Catalysis A,
 - ✓ Journal of Chemical Technology & Biotechnology
 - ✓ Journal of Environmental Management
 - ✓ Journal of Hazardous Materials,
 - ✓ Journal of Loss Prevention in Process Industries
 - ✓ Journal of Petroleum Science & Engineering,
 - ✓ Journal of Photochemistry and Photobiology A: Chemistry
 - ✓ Journal of Propulsion and Power,
 - ✓ Open Chemical Engineering Letters
 - ✓ Process Safety and Environmental Protection –IChemE Transactions B,
 - ✓ Separation and Purification Technology,
 - ✓ Topics in Catalysis,
 - ✓ Water Research,
 - ✓ 8th International Symposium on Fire Safety Science
 - ✓ **John Wiley and sons (book reviews).**
- Organised scientific seminars of Fluids and Polymer groups during 1995-1996.
 - Contribution in organising 5 conferences at Imperial College (3) and Aristotle University of Thessaloniki (2).

PUBLICATIONS
Book chapters

Papadaki M. (2020) Waste biomass suitable as feedstock for biofuels production. John Wiley & Sons Ltd. (Chapter 2).

Refereed publications in SCI journals (Scopus icon 57206127052=)

1. M.J. Assael, **M. Papadaki**, M. Dix, S.M. Richardson and W.A. Wakeham, "An Absolute Vibrating Wire Viscometer for Liquids at High Pressures", *Int. J. Thermophys.* **12**:231-244, (1991).
2. M.J. Assael, **M. Papadaki**, and W.A. Wakeham, "Measurement of the Viscosity of Benzene, Toluene and m-Xylene at Pressures up to 80 MPa", *Int. J. Thermophys.* **12**:449-457 (1991).
3. M.J. Assael and **M. Papadaki**, "Measurements of the Viscosity of n-Heptane, n-Nonane and n-Undecane at Pressures up to 70MPa ", *Int. J. Thermophys.*, **12**:801-810, (1991).
4. M.J. Assael, L. Karagiannidis and **M. Papadaki**, "Measurements of the Viscosity of n-Heptane+ n-Undecane Mixtures at Pressures up to 75MPa", *Int. J. Thermophys.* **12**:811-820(1991).
5. M.J. Assael, **M. Papadaki**, S.M. Richardson, C.P. Oliveira and W.A. Wakeham, "Vibrating Wire Viscometry on Liquid Hydrocarbons at High Pressure", *High Temp- High Press.* **23**:561-568, (1991).
6. M.J. Assael, C.P. Oliveira, **M. Papadaki** and W.A. Wakeham, "Vibrating -Wire Viscometers for Liquids at High Pressures", *Int. J. Thermophys.* **13**:593-615, (1992).
7. M.J. Assael, L. Karagiannidis and **M. Papadaki**, "The Thermal Conductivity of Some Alkyl Ethers and Alkanones", *Int. J. Thermophys.*, **12**:937-942(1991).
8. M.J. Assael, E. Charitidou J.H. Dymond and **M. Papadaki**, "Viscosity and Thermal Conductivity of Binary n-Heptane + n-Alkane Mixtures", *Int. J. Thermophys.* **13**:237-249, (1992).
9. M.J. Assael, J.H. Dymond, **M. Papadaki** and P.M. Patterson, "Correlation and Prediction of Dense Fluid Transport Coefficients. I. n-Alkanes", *Int. J. Thermophys.*, **13**:269-281, (1992).
10. M.J. Assael, J.H. Dymond, **M. Papadaki** and P.M. Patterson, "Correlation and Prediction of Dense Fluid Transport Coefficients. II. Simple Molecular Fluids", *Fluid Phase Equil.*, **75**:245-255, (1992).
11. M. J. Assael, J. H. Dymond, **M. Papadaki**, and P.M. Patterson, "Correlation and Prediction of Dense Fluid Transport Coefficients. III. n-Alkane Mixtures", *Int. J. Thermophys.* **13**:659-669, (1992).
12. M.J. Assael, J. H. Dymond and **M. Papadaki**, "Viscosity Coefficients of Binary n-Heptane+n-Alkane mixtures", *Fluid Phase Equil.*, **75**:287-297, (1992).
13. **M. Papadaki**, M. Schmitt, A. Seitz, K. Stephan, B. Taxis and W.A. Wakeham, "Thermal Conductivity of R134a and R141b Within the Temperature Range 240-307K at the Saturation Vapour Pressure", *Int. J. Thermophys.* **14**:173-181, (1993).
14. **M. Papadaki** and W.A. Wakeham, "Thermal Conductivity of R32 and R125 in the Liquid Phase at the Saturation Vapour Pressure", *Int. J. Thermophys.* **14**:1215-1220 (1993).
15. S.F. Li, **M. Papadaki**, and W.A. Wakeham, "The Measurement of Thermal Conductivity of gases at low density by the transient hot wire technique", *High Temp-High Press.* **25**: 451-458 (1993).
16. M.J. Assael, M. Dix, I. Drummond, L. Karagiannidis, M.J. Lourenco, C.N. De Castro, **M. Papadaki**, M.L. Ramires, H. Van den Berg and W.A. Wakeham, "Towards standard reference values for the thermal conductivity", *Int. J. Thermophys.* **18**:439-446 (1997).
17. J. Sempere, R. Nomen, J.L. Rodriguez and **M. Papadaki** "Modelling of the reaction of 2-methylpyridine using hydrogen peroxide and a complex metal catalyst", *Chemical Engineering and Processing* **37**:33-46 (1998).
18. **M. Papadaki**, R. J. Emery, E. Serra, R. Nomen and J. Sempere, "Sensitivity analysis of the 2-methylpyridine N-oxidation kinetic model", *Green Chemistry*, **4**: 199-205(2002).
19. **M. Papadaki**, V. Stoikou, D. Mantzavinos and J.L. Rodriguez-Miranda, "Towards improved reaction runaway studies: Kinetics of the N-oxidation of 2-methylpyridine using heat-flow calorimetry", *Process Safety and Environmental Protection* **80**:186-196(2002).
20. K.V.R. Chary, K.S. Laskhmi, M.R.V.S. Murthy, K.S. Rama Rao and **M. Papadaki**, "Hydrodechlorination of 1,2,4-trichlorobenzene over Niobia supported nickel catalysts", *Catalysis Communications*, **4**: 531-535(2003).
21. R.J. Emery, **M. Papadaki** and D. Mantzavinos, Sonochemical degradation of phenolic pollutants in aqueous solutions, *Environmental Technology*, **24**: 1491-1500 (2003).

22. **M.Papadaki**, R.J.Emery, M.A.Abu-Hassan, A.Díaz-Bustos, I.S.Metcalf and D.Mantzavinos, Ultrasound-assisted oxidation processes for the removal of aromatic contaminants from aqueous effluents, *Separation & Purification Technology*, **34**(1-3) 39-46 (2004).
23. S.D. Lever and **M.Papadaki**, o-chlorination of 2-nitrobenzoic acid with thionyl chloride in xylene and acetonitrile:solubility study of hydrogen chloride and sulphur dioxide in xylene and acetonitrile, *Process Safety and environmental Protection (TranslChemE, Part B)*, **82(B1)**: 48-60(2004).
24. **M.Papadaki**, "Use of reaction calorimetry in thermal risk assessment studies and safe design of batch reactions that can lead to a runaway: Application on hydrogen peroxide" *Topics in Catalysis* **29**:207-213 (2004).
25. **K.V.R. Chary**, **K.Sri Lakshmi**, **K.S. Rama Rao** and **M.Papadaki** "Characterization and Catalytic Properties of Niobia supported Nickel Catalysts in the hydrodechlorination of 1,2,4 Trichlorobenzene", *Journal of Molecular Catalysis A.: Chemical*. **Vol. 223(1-2)**: 353-361 (2004)
26. S.D. Lever and **M.Papadaki**, Study of Condition-Dependent Decomposition Reactions Part_I – The Thermal Behaviour and Decomposition of 2-Nitrobenzoyl Chloride *Journal of Hazardous Materials* **115**: 91-100(2004).
27. R.J. Emery, **M. Papadaki**, L.M.Freitas dos Santos and **D. Mantzavinos** "extent of sonochemical degradation and change of toxicity of a pharmaceutical precursor in aqueous effluents as a function of treatment conditions, *Environment International*: **31**:207-211(2005).
28. **M. Papadaki**, E.Marqués-Domingo , Jun Gao and T. Mahmud " catalytic decomposition of hydrogen peroxide in the presence of alkylpyridines: runaway scenarios studies. " *Journal of Loss Prevention in Process Industries*, **18**:(4-6): 384-391(2005).
29. S. D. Lever and **M. Papadaki** "Calorimetric study of the effects of gas environment on the decomposition of o-nitrobenzoyl chloride", *Journal of Loss Prevention in Process Industries*, **18(4-6)**: 392-396 (2005)
30. J. Gao and **M. Papadaki**, "Kinetic model and runaway studies of complex reaction systems" *Computers and Chemical Engineering*, **29**: 2449-2460(2005).
31. J. Gao and Maria Papadaki "Global kinetic model: a case study on the N-oxidation of alkylpyridines, *Journal of Hazardous Materials* **130**, (1-2) **2006**, 141-147.
32. S.D. Lever and **M.Papadaki** "Effects of heating rate, temperature and iron catalysis on the thermal behaviour and decomposition of 2-nitrobenzoyl chloride" *Journal of Hazardous Materials* **130**, (1-2) **2006** 76-87
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