
CURRICULUM VITAE Dr. EMILIA KONDILI

PERSONAL DATA

Name Emilia Kondili
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CURRENT POSITION

Professor, Department of Mechanical Engineering, Piraeus University of Applied Science

EDUCATION - QUALIFICATIONS

1988 : Ph.D, Department of Chemical Engineering, Imperial College, University of London, Diploma of Imperial College. *Ph.D Thesis: The Optimal Scheduling of Batch Chemical Processes*

1984: M.Sc (Mark of Distinction) in Process Systems Engineering, Department of Chemical Engineering, Imperial College, Diploma of Imperial College

1984-1988: Systems Group, Department of Chemical Engineering, Imperial College, University of London

1983: Degree in Chemical Engineering (Grade 9/10, Mark of Distinction)

1978-1983: Chemical Engineering Department, Aristotle University of Thessalonica

FIELDS OF SPECIALISATION - RESEARCH INTERESTS

- ❖ Implementation of optimization tools in energy and environmental systems.
- ❖ Design, simulation and Optimisation of Production Systems
- ❖ Production Management
- ❖ Water and Wastewater Treatment Technology

- ❖ Water Resources Management with the Use of Optimisation Tools

ACADEMIC / PROFESSIONAL EXPERIENCE

June 2003 - : Full Professor, Mechanical Engineering Department, Piraeus University of Applied Science. Field: Optimisation of energy and Environmental Production Systems. Application in Production and Resources Management

1996 - 2003: Adjunct Professor in Mechanical Engineering Department of Technological Institute (TEI) of Piraeus. Responsible for the Production Management and the Operations Management courses.

2001: Adjunct Professor in the Industrial Engineering Department of the University of Thessaly. Responsible for the Linear Programming course (5 hours per week)

2014 - : Deputy Director and Approved Professor in the Energy and Environmental Engineering Postgraduate Course organized and implemented by the Piraeus University of Applied Science

2006 - : Approved Professor in the MSc in Energy Systems Postgraduate Course organized by the Heriot Watt University in collaboration with Piraeus University of Applied Science (PUAS) and implemented by PUAS

2000 - 2002 Adjunct Professor in the Industrial Engineering Department of the University of Thessaly. Responsible for the Linear Programming course (5 hours per week)

2003 - Responsible for the *Integrated Management Systems* module of the Postgraduate course *Advanced Integrated Management Systems*, carried out in collaboration with Kingston University

1993 - 2003: PLANET ERNST & YOUNG S.A, Senior Manager

Participation in Projects in the fields of:

- ✓ Requirements Analysis, Design, Specification Preparation and Development of Industrial Information Systems
- ✓ Design and implementation of modernisation programs in enterprises and industrial units
- ✓ Development and implementation of Business Plans

January 1989 - May 1990: Process Department of Hellenic Aspropyrgos Refinery, Hellenic Petroleum SA. Position Held : Process Engineer

Responsibilities :

- ✓ Monitoring, fine tuning and Optimisation of the Catalytic Cracking Reformer Unit of HAR

- ✓ Implementation of Process Simulator DESIGN II (by CHEMSHARE) in the Distillation Unit

1994 - 1996: Organisation of the 6th European Symposium on Computer Aided Process Engineering. Organisers : CAPE Working Party of the European Federation of Chemical Engineers, the Scientific and Educational Centre of Chemical Engineers, the three Chemical Engineering Departments of Greece

Position held:

Project Manager and Chair of the Organising Committee

The Symposium took place in Rhodes, in May 1996 and had 320 participants from all over the world.

1994 - today: Member of the Scientific Committee of the European Symposia of Computer Aided Process Engineering as a member of the corresponding working Party of the European Federation of Chemical Engineers.

The Scientific Programme of the Symposium covered all the areas of Process Systems Engineering, as Process Design, Process Control, Process Simulation and Optimisation

1996: Editor of the 20th Volume (Suppl.) of the Computers and Chemical Engineering magazine

1990 - 1993: AMPER S.A (HERACLES General Cement Company subsidiary)

Position held: Research and Development Group, Design, development and implementation of a Production Planning System for the Rational Use of Electricity in one of HERACLES company cement plants. The work has been a research and development project and resulted in a computer package for the short term scheduling of the operation of Cement Mills.

In this project I had close cooperation with the Systems Group of Imperial College. A publication in Comp. and Chem. Eng. also came out from this work.

1994: Development of a Management Reporting System for the Subsidiaries Department of the HERACLES General Cement Company (AGET)

1999-2003, collaboration with the construction company MT for consulting services in environmental construction projects.

Sept. 1984 - Febr 1988: Systems Group, Department of Chemical Engineering, Imperial College of Science and Technology, University of London, UK.

LANGUAGES

Greek : Native Language

English : Fluently

French : Fair

SCHOLARSHIPS - AWARDS

1984-1987 : Scholarship, Bodossaki Foundation (Greece)

1987-1988 : Scholarship, Onassis Foundation (Greece)

1987 : Awarded Scholarship, University of London

MEMBERSHIPS

- Member of Technical Chamber of Greece (since 1983)
- Member of the Computer Aided Process Engineering Working Party of the European Federation of Chemical Engineers (since 1991)
- Member of the Hellenic Association of Chemical Engineers (since 1983)

RESEARCH ACTIVITIES

Participation in numerous research projects, funded by the European Community and the Greek State.

- ✓ Member of the Research Team of the Research Project **ΤΙΛΟΣ_ΤΕΧΝΟΛΟΓΙΚΗ ΚΑΙΝΟΤΟΜΙΑ ΓΙΑ ΤΗ ΒΕΛΤΙΣΤΗ ΕΝΣΩΜΑΤΩΣΗ ΤΟΠΙΚΟΥ ΧΑΡΑΚΤΗΡΑ ΣΥΣΤΗΜΑΤΩΝ ΣΥΣΣΩΡΕΥΤΩΝ ΕΝΕΡΓΕΙΑΣ**», funded by HORIZON Grant Agreement No 646529 (Budget: 15 M Euros, 2015-2018)
- ✓ Deputy Scientific Manager, "**CRISP (CReating Innovative Sustainability Pathways across Europe)**, FP7, Collaborative project, Foresight to enhance behavioural and societal changes enabling the transition towards sustainable paths in Europe" (Total Budget 1,500,000 €), (2011-2014).
- ✓ '*Optimisation of Water Systems in Islands with Limited Water Resources*' (ARCHIMEDES II, 2005-2007)
- ✓ VISION: '*A New Vision for Engineering Economy*' (TEMPUS, 2004, with Italy, Egypt and UK)
- ✓ '*Maximization of the Energy Autonomy of Greek Islands with the Use of Hybrid Energy Systems*' (ARCHIMEDES I, 2004, in collaboration with the Soft Energy Applications and Environmental Protection Lab of Mechanical Engineering Department of TEI of Piraeus)

- ✓ 'Advanced Control Systems in the Water Supply Networks' (ARCHIMEDES I, 2004; in collaboration with the Lab of Intelligent Systems of TEI of Piraeus)
- ✓ 'Reorganization of Mechanical Engineering Department', supported by EPEAEK-Greek Ministry of Education (completed)

EDUCATIONAL ACTIVITIES

Design and implementation of the following modules:

- ✓ Environmental Engineering - Waste Water Treatment
- ✓ Optimisation of Production Systems - Operations Research
- ✓ Environmental Engineering - Design and Operation of Waste Treatment Plants
- ✓ Production Organization and Management
- ✓ Engineering Economics - Project Management
- ✓ Industrial and Business Administration

BOOKS

Comprehensible Renewable Energy, 2012, Kaldellis J.K., Editor of Volume 2: Wind Energy, by Elsevier, ISBN 978-0080878720 (two Chapters by Emilia Kondili).

"Technology of Stand-Alone and Hybrid Wind Energy Production and Storage", Kaldellis J.K. (editor), Woodhead Publishing, July 2010, ISBN: 978-1-84569-527-9. (two Chapters by Emilia Kondili)

J.K. Kaldellis, E. M. Kondili, Environment and Industrial Development, Vol. B;, Stamoulis Ed. Athens 2005, ISBN: 960-351-601-5

I. DISSERTATIONS

1. **Kondili, E., 1988**, "Optimal Scheduling of Batch Chemical Processes", Ph.D Thesis, Imperial College, University of London.
2. **Kondili, E., 1985**, "Steady State and Dynamic Simulation of a Distillation Column", M.Sc Dissertation, Imperial College, University of London.
3. **Κονδύλη Αιμ., 1983**, "Κατασκευή και Λειτουργία Εργαστηριακού Καταλυτικού Συνεχούς Αντιδραστήρα Περιστευόμενης Κλίνης, Κινητικές Μελέτες Αντιδράσεων Οξειδωσης των CO, Προπανίου από τον Αέρα και Αναγωγής του NO από CO", Διπλωματική Εργασία, Τμήμα Χημικών Μηχανικών, ΑΠΘ.

II. SCIENTIFIC JOURNALS

1. Christiana Papapostolou, **Emilia Kondili**, Ioannis K. Kaldellis, Wolf Gerrit Früh, Energy Supply Chain modeling for the optimisation of a large scale energy planning problem, *Computer Aided Chemical Engineering*, Volume 37, 2015, Pages 2297-2302
2. D. Zafirakis, K. Kavadias, **Emilia M. Kondili**, John K. Kaldellis, Optimum Sizing of PV-CAES Configurations for the Electrification of Remote Consumers, *Computer Aided Chemical Engineering*, Volume 33, 2014, Pages 1135-1140
3. Christiana Papapostolou, **Emilia M. Kondili**, John K. Kaldellis, Energy Supply Chain Optimisation: Special Considerations for the Solution of the Energy Planning Problem, *Computer Aided Chemical Engineering*, Volume 33, 2014, Pages 1525-1530
4. Tyligadas D., **Kondili E.**, Kaldellis J.K., Photovoltaic-based combined electricity and clean water production for remote small islands, *Desalination and Water Technology*, Vol. 51, Issue 4-6, 2013, Pages 695-701
5. **Kondili E.**, Kaldellis J.K, Paidousi M., A Multicriteria Analysis for the optimal desalination-RES system. Special focus: the small Greek islands. *Desalination and Water Technology*, Vol. 51, Issue 4-6, 2013, Pages 1205-1218
6. **E. Kondili**, 2.22 - Special Wind Power Applications, *Comprehensive Renewable Energy*, Volume 2, 2012, Pages 725-746
7. **E. Kondili**, J.K. Kaldellis, 2.16 - Environmental-Social Benefits/Impacts of Wind Power, *Comprehensive Renewable Energy*, Volume 2, 2012, Pages 503-539
8. Skarlis S., **Kondili E.**, Kaldellis J.K., 2012, "Small Scale Biodiesel Production Economics: A Case Study Focus on Crete Island", *Journal of Cleaner Production*, Volume 20, Issue 1, January 2012, Pages 20-25
9. Kaldellis J., Zafirakis D., Kavadias K., **Kondili E.**, 2012, Optimum PV-diesel hybrid systems for remote consumers of the Greek territory, *Applied Energy*, Volume 97, September 2012, Pages 61-67
10. **Kondili E.**, Bartzis I., Kapsali M., Kaldellis J.K., 2012, Multicriteria analysis of municipal solid wastes recovery technologies in Greece, *Global Nest Journal* Volume 14, Issue 2, June 2012, Pages 225-234
11. Papapostolou C., **Kondili E.**, Kaldellis J.K., 2011, "Development and Implementation of an Optimisation Model for Biofuels Supply Chain", *Energy*, Volume 36, Issue 10, October 2011, Pages 6019-6026
12. Christiana Papapostolou, **Kondili E.**, John K. Kaldellis, 2011, Modelling biomass and biofuels supply chains, *Computer Aided Chemical Engineering*, Volume 29, Pages 1773-1777
13. **Kondili E.**, Kaldellis J.K., 2011, "Design and performance optimization of hybrid energy systems", *Computer Aided Chemical Engineering*, 29, pp.1778-1783.

14. Kaldellis J.K., Zafirakis D., Kondili E., 2010, "Energy Pay-Back Period Analysis of Stand-Alone Photovoltaic Systems", *Renewable Energy*, Vol.35(7), pp.1444-1454.
15. Kaldellis J.K., Zafirakis D., Kondili E., 2010, "Optimum sizing of photovoltaic-energy storage systems for autonomous small islands", *International Journal of Electrical Power & Energy Systems*, Vol.32(1), pp.24-36.
16. Kondili E., Kaldellis J.K., Papapostolou C., 2010, "A novel systemic approach to water resources optimisation in areas with limited water resources", *Desalination*, Vol.250(1), pp.297-301.
17. J.K. Kaldellis, M. Simotas, D. Zafirakis, E. Kondili, 2009, Optimum autonomous photovoltaic solution for the Greek islands on the basis of energy pay-back analysis, *Journal of Cleaner Production*, Volume 17, Issue 15, October 2009, Pages 1311-1323
18. J.K. Kaldellis, D. Zafirakis, E. Kondili, 2009, Optimum autonomous stand-alone photovoltaic system design on the basis of energy pay-back analysis, *Energy*, Volume 34, Issue 9, Pages 1187-1198
19. Zafirakis D., Papapostolou Ch., Kondili E., Tsoutsos Th., Kaldellis J.K., 2009, "Environmental Non-Governmental Organizations and Public Awareness Concerning the Environment in Greece", *Fresenius Environmental Bulletin (F-28-544)*, Vol.18(9).
20. Kaldellis J.K., Zafirakis D., Kavadias K., Kondili E., 2009, "An Optimum Sizing Methodology for Combined Photovoltaic-Energy Storage Electricity Generation Configurations", *Journal of Solar Energy Engineering, Transactions of the ASME* Vol. 131(2), pp0210101-02101012.
21. J.K. Kaldellis, D. Zafirakis, E. Kondili, 2009, Contribution of Lignite in the Greek Electricity Generation: Review and Future Prospects, *Fuel*, Vol.88(3), pp.475-489.
22. Kaldellis J.K., Zafirakis D., Kaldelli El., Kondili E., 2009, "Combined Photovoltaic and Energy Storage Systems. An Integrated Electrification Solution for Small Islands", *International Journal of Environmental Technology & Management*, Vol.10(2), pp.123-149.
23. Kaldellis J.K., Kondili E.M., Paliatsos A.G., 2008, "The Contribution of Renewable Energy Sources on Reducing the Air Pollution of Greek Electricity Generation Sector", *Fresenius Environmental Bulletin*, Vol.17 (10A), pp. 1584-1593.
24. Kondili E., Kaldellis J.K., 2008, "Development and Operation Issues of a Decision Support system for Water Management in areas with Limited Water Resources", *Fresenius Environmental Bulletin*, Vol.17(9b), pp. 1412-1419.
25. Kaldellis J.K., Kondili E.M., 2007, "The water shortage problem in the Aegean Archipelago islands: cost-effective desalination prospects", *Desalination*, Vol.216 (1-3), pp.123-138.
26. Kondili E.M., Kaldellis, J.K., 2007, "Biofuel implementation in East Europe: Current status and future prospects", *Renewable and Sustainable Energy Reviews*, Vol.11 (9), pp.2137-2151.

27. Kaldellis J.K., Kondili E., 2006, "Simulation of Electricity Production Systems in Autonomous Networks in order to Maximize the Wind Energy Penetration", *Computer-Aided Chemical Engineering*, Vol.21(B), pp.1857-1862.
28. Kaldellis J.K., Kondili E., Filios A., 2006, "Sizing a hybrid wind-diesel stand-alone system on the basis of minimum long-term electricity production cost", *Applied Energy*, Vol.83(12), pp.1384-1403.
29. Kondili E., Kaldellis J.K., 2006, "Model Development for the Optimal Water Systems Planning", *Computer-Aided Chemical Engineering*, Vol.21(B), pp.1851-1856.
30. Kondili E., Kaldellis J.K., 2006, "Water Use Planning with Environmental Considerations for Aegean Islands", *Fresenius Environmental Bulletin*, Vol.15 (11), pp.1400-1407.
31. Kaldellis J.K., Kondili E., Kavadias K.A., 2006, "Energy and clean water co production in remote islands to face the intermittent character of wind energy", *International Journal of Global Energy Issues*, Vol.25(3-4), pp.298-312.
32. Kondili E., Kaldellis J.K., 2006, "Optimal design of geothermal-solar greenhouses for the minimization of fossil fuel consumption", *Applied Thermal Engineering*, Vol.26 (8-9), pp.905-915.
33. Kaldellis J.K., Vlachos G.Th., Paliatsos A.G., Kondili E.M., 2005, "Detailed examination of the Greek electricity sector nitrogen oxides emissions for the period 1995-2002", *Environmental Science & Policy*, Vol.8 (5), pp.502-514.
34. Kondili E., 2005, "Review of Optimization Methods in Pollution Prevention and Control", *Computer Aided Chemical Engineering*, Vol.20(2), pp.1627-1632.
35. Kaldellis J.K., Kavadias K.A., Kondili E., 2004, "Renewable Energy Desalination Plants for the Greek Islands, Technical And Economic Considerations", *Desalination*, Vol.170(2), pp. 187-203.
36. Kondili E., Pantelides C.C., Sargent, R.W.H., 1993, "A General Algorithm for Short-term Scheduling of Batch Operations - I. MILP Formulation", *Computers & Chemical Engineering*, Vol.17(2), pp.211-227.
37. Kondili E., Shah N., Pantelides C.C., 1993, "Production Planning for the Rational Use of Energy in Multiproduct Continuous Plants", *Computers & Chemical Engineering*, Vol.17(S1), pp.123-128.
38. Kondili E., Pantelides C.C., Sargent, R.W.H., 1988, "A General Algorithm for Scheduling Batch Operations", *Proceedings of Third International Symposium on Process Systems Engineering*, Brisk, M.L., and Perkins, J.D. eds., (The Inst. of Engineers, Australia), pp. 62-75.

III. INTERNATIONAL CONFERENCES

1. K. Dania, S. Drakaki, E. Mamali, M. Stamatou - Freri, E. Kondili, C. Papapostolou, J. K. Kaldellis, 'Biomass (to Bioethanol) Supply Chain Design and Optimisation', CEST-2015, 3 - 5 Σεπτεμβρίου 2015, Rhodes, Greece

2. J.K. Kaldellis, E. Kondili, St. Liaros, K. Schoretsanitis, **Carbon Dioxide Targets of Greek Electricity Sector for 2020: Evaluation and Prospects**, CEST-2015, 3 - 5 Σεπτεμβρίου 2015, Rhodes, Greece
3. Kotsenos A., **Kondili E.**, Paliatsos A.G., Kaldellis J.K., 2013, "Comparative Evaluation of the Air Quality Indexes. Application for the Greater Athens Area", CEST2013, 13th International Conference on Environmental Science and Technology, September 2013, Athens, Greece.
4. **Kondili E.**, Papapostolou C., Balaska A., Aggelakopoulos J., Papagiakomos A., Kaldellis J.K., 2013, "Environmental Performance Improvement and Environmental Management Systems (EMS) in Universities. Special Focus in the TEI of Piraeus Campus", CEST2013, 13th International Conference on Environmental Science and Technology, September 2013, Athens, Greece.
5. **Kondili E.**, Papapostolou C., Pantemi G., Kaldellis J.K., 2013, "Energy and Environmental Education in Greek Secondary Education: Highlights, Prospects and Expectations", CEST2013, 13th International Conference on Environmental Science and Technology, September 2013, Athens, Greece.
6. Kaldellis J.K., Kapsali M., **Kondili E.**, Zafirakis D., 2013, "Design of an Integrated PV-based Pumped Hydro and Battery Storage System Including Desalination Aspects for the Island of Tilos", ICCEP-2013, 4th International Conference on "Clean Electrical Power", IEEE, June 2013, Alghero, Sardinia, Italy.
7. **Kondili E.**, Lyberopoulos E., Kaldellis J.K., 2013, "A Delphi Analysis for the Electricity Supply Security in Greece", ICCEP-2013, 4th International Conference on "Clean Electrical Power", IEEE, June 2013, Alghero, Sardinia, Italy.
8. Skarlis S., Papapostolou C., **Kondili E.**, Kaldellis J.K., 2012, "Willingness To Pay for Biodiesel from Vegetable Oil Crops in Rural Areas in Greece", International Conference of Protection and Restoration of the Environment XI, July 3-6, 2012, Thessaloniki, Greece.
9. Zafirakis D., Papapostolou C., **Kondili E.**, Kaldellis J.K., 2012, "Water Use in the Electricity Generation Sector. A Regional Approach Evaluation for Greek Thermal Power Plants", International Conference of Protection and Restoration of the Environment XI, July 3-6, 2012, Thessaloniki, Greece.
10. **Kondili E.**, Kaldellis J.K., 2012, "Evaluation of Water Supply Methods Including Water Reuse in the Island Region", International Conference of Protection and Restoration of the Environment XI, July 3-6, 2012, Thessaloniki, Greece.
11. Papapostolou Chr., **Kondili E.**, Früh W.G., Kaldellis J.K., 2012, "Environmental and Social Implications of Alternative Energy Supply Chains: Identification of Main Parameters and Examples", World Renewable Energy Congress WREF-2012, 13-17 May 2012, Denver, Colorado, USA.

12. **Kondili E., Kaldellis J.K., 2012**, "Environmental and Economic Analysis of Water Supply Projects: Comparative Evaluation and Prospects", Invited paper in the World Renewable Energy Congress WREF-2012, 13-17 May 2012, Denver, Colorado, USA.
13. Tiligadas D., **Kondili E., Kaldellis J.K., 2012**, "Photovoltaic-Based Combined Electricity and Clean Water Production for Remote Small Islands", Desalination and the Environment Conference (EDS), April 2012, Barcelona, Spain.
14. **Kondili E., Kaldellis J.K., Paidousi M., 2012**, "A Multicriteria Analysis for the Optimal Desalination-RES System. Special focus: the Small Greek Islands", Desalination and the Environment Conference (EDS), April 2012, Barcelona, Spain.
15. Kaldellis J.K., Zafirakis D., **Kondili E., Papapostolou Chr., 2012**, "Trends, Prospects and R&D Directions of the Global Wind Energy Sector", European Wind Energy Conference (EWEC-2012), April 2012, Copenhagen, Denmark.
16. Bartzis I., **Kondili E., Kaldellis J.K., 2011**, "Investigation of Energy Production by the Utilization of Municipal Solid Wastes in Greece", CEST2011, 12th International Conference on Environmental Science and Technology, September 2011, Rhodes, Greece.
17. **Kondili E., Papapostolou C., Kaldellis J.K., 2011**, "Technical and Economic Evaluation of Water Reuse from Wastewater Treatments Plants", CEST2011, 12th International Conference on Environmental Science and Technology, September 2011, Rhodes, Greece.
18. Rokas St., Ktenidis T., **Kondili E., Kaldellis J.K., 2011**, "RES-based Power Plants Siting Using Geographical Information Systems", *3rd International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2011* , art. no. 6036269 , pp. 283-288, IEEE, June 2011, Ischia, Italy.
19. Zafirakis D., Kavadias K.A., **Kondili E., Kaldellis J.K., 2011**, "Energy Performance Evaluation of a Hybrid System in the Athos State", *3rd International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2011*, art. no. 6036356, pp. 283-288, IEEE, June 2011, Ischia, Italy.
20. Kaldellis J.K., **Kondili E., 2011**, "Prospects and Limitations of Wind Energy Applications in Remote Island Regions", presented in ICAE-2011, May 2011, Perugia, Italy.
21. Zafirakis D., Kavadias K., **Kondili E., Kaldellis J.K., 2011**, "Optimum Sizing of a PV-Battery-Diesel Hybrid System for Remote Consumers", presented in ICAE-2011, May 2011, Perugia, Italy.
22. Papapostolou Ch., **Kondili E., Kaldellis J.K., 2011**, "Modelling biomass and biofuels supply chains", ESCAPE 21 International Conference, May 2011, Greece.
23. Katsanou Ev., Zafirakis D., **Kondili E., Kaldellis J.K., 2011**, "Recent Views on the Public Acceptance of Wind Energy and Photovoltaic Applications in Greece", presented in the EWEC-2011, Brussels, Belgium.
24. **Kondili E., Kaldellis J.K., 2010**, "Optimization methods and tools for sustainable water resources management. Experiences and trends", Invited paper in World Renewable Energy Congress -WRECXI, 25-30 September 2010, Abu Dhabi, United Emirates.

25. **Kondili E.**, Kaldellis J.K., Tiligadas D., **2010**, "Wind-based Combined Electricity and Clean Water Production for Remote Islands", World Renewable Energy Congress - WRECXI, 25-30 September 2010, Abu Dhabi, United Emirates.
26. Papapostolou P., **Kondili E.**, Kaldellis J.K., **2010**, "Technological and Environmental Impacts Evaluation of Biomass and Biofuels' Supply Chain", World Renewable Energy Congress - WRECXI, 25-30 September 2010, Abu Dhabi, UE.
27. Papapostolou Chr., **Kondili E.**, Kaldellis, J.K., "Environmental And Energy Considerations of Biofuels Supply Chain Through Life Cycle Analysis", CEST2009, 11th International Conference on Environmental Science and Technology, 3-5 September 2009, Chania, Crete, Greece.
28. Papapostolou Chr., **Kondili E.**, Kaldellis, J.K., "Modelling and Optimization of Biofuels Supply Chain. Case Study: Biofuels in Greece", *17th European Biomass Conference and Exhibition*, CH - Congress Center, 29 June to 3 July 2009 Hamburg, Germany.
29. **Kondili E.**, Pantelides C.C., Sargent, R.W.H., **1988**, "A General Algorithm for Scheduling Batch Operations", Proceedings of Third International Symposium on Process Systems Engineering, Brisk, M.L., and Perkins, J.D. eds., (The Inst. of Engineers, Australia), pp. 62-75.
30. Kaldellis J.K., **Kondili E.M.**, Kavadias K.A., **2008**, "Analyzing the Public Opinion towards Wind Energy Applications in Greece", Xth World Renewable Energy Congress, July 2008, Glasgow-Scotland, UK, also in the special edition.
31. **Kondili E.**, Kaldellis J.K., **2008**, "Wind Energy Based Desalination Processes and Plants", Xth World Renewable Energy Congress, July 2008, Glasgow-Scotland, UK.
32. Koutsogianni E., Skittides Ph., **Kondili E.**, Kaldellis J.K., **2008**, "Educational Opportunities and Business Prospects for the Renewable Energy Sector in Greece", SynEnergy Forum (S.E.F.) International Scientific Conference, May 2008, Spetses, Greece.
33. Papapostolou Ch., **Kondili E.**, Kaldellis J.K., **2008**, "Life Cycle Analysis and Environmental Impacts of Renewable Fuels", SynEnergy Forum (S.E.F.) International Scientific Conference, May 2008, Spetses, Greece.
34. Papapostolou Chr., **Kondili E.**, Kaldellis J.K., **2008**, "Modelling, Optimization and Life Cycle Analysis of Biofuels Supply Chain", Xth World Renewable Energy Congress, July 2008, Glasgow-Scotland, UK.
35. Skarlis Str., **Kondili E.**, Kaldellis J.K., **2008**, "Design and Feasibility Analysis of a new Biodiesel Plant in Greece", SynEnergy Forum (S.E.F.) International Scientific Conference, May 2008, Spetses, Greece.
36. Kavadias K.A., Zafirakis D., **Kondili E.**, Kaldellis J.K., **2007**, "The Contribution of Renewables on Reducing the Electricity Generation Cost in Autonomous Island Networks", *2007 International Conference on Clean Electrical Power, ICCEP '07*, art. no. 4272473, pp. 777-783, IEEE, Capri, Italy.

37. Kaldellis J.K., Kondili E.M., 2007, "Energy and Clean Water Co-Production in Remote Islands on the Basis of a Combined PV-Energy Storage Installation", 2nd International Conference "The Case of Energy Autonomy: Storing Renewable Energies", IRES-II, Eurosolar, November 2007, Bonn, Germany.
38. Kaldellis J.K., Kondili E.M., Paliatsos A.G., 2007, "The Contribution of Renewable Energy Sources on Reducing the Air Pollution of Greek Electricity Generation Sector", 14th International Symposium of MESAEP, Seville-Spain.
39. Kondili E., Kaldellis J.K., 2007, "Business Activities in the Environmental Sector in Greece: Current Status and Prospects", "1st CEMEPE (Conference on Environmental Management, Engineering, Planning and Economics)" International Conference, June 2007, Skiathos, Greece
40. Kondili E.M, Kaldellis J.K., 2007, "Development and Operation Issues of a Decision Support System for Water Management in Areas with Limited Water Resources", 14th International Symposium of MESAEP, Seville-Spain.
41. Kondili E., Mentzos M., Papapostolou C., 2007, "A Novel Systemic Approach to Water Resources Optimization in Areas with Limited Water Resources", CEMEPE, June 2007, Skiathos, Greece.
42. Kaldellis J.K, Kavadias K.A., Kaldelli El., Kondili E., 2006, "Analyzing the Relation between Noise-Visual Impact and the Public Attitude Towards Wind Energy Applications in Greece", International Conference of Protection and Restoration of the Environment VIII, 3-7 July 2006, Chania-Crete, Greece.
43. Kaldellis J.K., Kavadias K.A., Kondili E.M., 2006, "Estimating the Wind Energy Rejection by the Crete Island Electrical Network during the Next Decade", 2006 WSEAS International Conference on Energy and Environmental Systems, Chalkida, Greece, May 8-10, also in WSEAS Transactions on Environment and Development, Vol.2(3), pp. 155-160.
44. Kaldellis J.K., Kondili E., Kavadias K.A., 2006, "Risk Evolution during a Wind Park Investment Realization", *European Wind Energy Conference and Exhibition 2006, EWEC 2006 2* , pp. 1538-1547
45. Kaldellis J.K., Kondili E., Kavadias K., Zafirakis D., 2006, "Off-Grid Solutions Based on RES and Energy Storage Configurations", 1st International Renewable Energy Storage Conference, IRES-I, Eurosolar, October 2006, Gelsenkirchen, Germany.
46. Kavadias K.A., Kondili E., Kaldellis J.K., 2006, "Renewable Energy Based Hydrogen Production Methods: An Economic and Energy Efficiency Comparison", IXth World Renewable Energy Congress, August 2006, Florence-Italy.
47. Kavadias K.A., Zafirakis D., Kondili E., Kaldellis J.K., 2006, "Cost-Benefit Analysis of Variable Water Pumping Configurations Based on Wind Energy Surplus in Autonomous Electrical Networks", *European Wind Energy Conference and Exhibition 2006, EWEC 2006 2* , pp. 1538-1547

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CITATIONS (as per February 03, 2016)

Dr. E. Kondili has more than 1200 citations in her scientific work, according to the following Table.

Authors	Title	year	JOURNAL	CITATIONS
Papapostolou, C., Kondili, E., Kaldellis, I.K., Früh, W.	Energy Supply Chain modeling for the optimisation of a large scale energy planning problem	2015	Computer Aided Chemical Engineering	0
Papapostolou, C., Kondili, E.M., Kaldellis, J.K.	Energy Supply Chain Optimisation: Special Considerations for the Solution of the Energy Planning Problem	2014	Computer Aided Chemical Engineering	1
Zafirakis, D., Kavadias, K., Kondili, E.M., Kaldellis, J.K.	Optimum sizing of PV-CAES configurations for the electrification of remote consumers	2014	Computer Aided Chemical Engineering	0
Kondili, E., Kaldellis, J.K., Paidousi, M.	A multicriteria analysis for the optimal desalination-RES system. Special focus: The small Greek Islands	2013	Desalination and Water Treatment	1
Tiligadas, D., Kondili, E., Kaldellis, J.K.	Photovoltaic-based combined electricity and clean water production for remote small islands	2013	Desalination and Water Treatment	2
Kondili, E., Kaldellis, J.K.	Environmental-social benefits/impacts of wind power	2012	Earth and Planetary Sciences	2
Kondili, E.	Special wind power applications	2012	Earth and Planetary Sciences	1
Kaldellis, J.K., Zafirakis, D., Kondili, E., Papapostolou, C.	Trends, prospects and R&D directions of the global wind energy sector	2012	European Wind Energy Conference and Exhibition 2012, EWEC 2012	0
Kaldellis, J., Zafirakis, D., Kavadias, K., Kondili, E.	Optimum PV-diesel hybrid systems for remote consumers of the Greek territory	2012	Applied Energy	15
Kondili, E., Bartzis, I., Kapsali, M., Kaldellis, J.K.	Multicriteria analysis of municipal solid wastes energy recovery technologies in Greece	2012	Global Nest Journal	2
Skarlis, S., Kondili, E., Kaldellis, J.K.	Small-scale biodiesel production economics: A case study focus on Crete Island	2012	Journal of Cleaner Production	21
Rokas, St., Ktenidis, T., Kondili, E., Kaldellis, J.K.	RES-based power plants siting using geographical information systems	2011	3rd Int. Conf. on Clean Electrical Power: Renewable Energy Res. Impact, ICCEP 2011	0
Zafirakis, D., Kavadias, K.A., Kondili, E., Kaldellis, J.K.	Energy performance evaluation of a hybrid system in the Athos State	2011	3rd Int. Conf. on Clean Electrical Power: Renewable Energy Res. Impact, ICCEP 2011	0
Papapostolou, C., Kondili, E.,	Development and implementation of an optimisation model	2011	Energy	33

Authors	Title	year	JOURNAL	CITATIONS
Kaldellis, J.K.	for biofuels supply chain			
Kondili, E., Kaldellis, J.K.	Design and performance optimization of hybrid energy systems	2011	Computer Aided Chemical Engineering	0
Papapostolou, C., Kondili, E., Kaldellis, J.K.	Modelling biomass and biofuels supply chains	2011	Computer Aided Chemical Engineering	2
Kaldellis, J.K., Zafirakis, D., Kondili, E.	Energy pay-back period analysis of stand-alone photovoltaic systems	2010	Renewable Energy	30
Kondili, E., Kaldellis, J.K., Papapostolou, C.	A novel systemic approach to water resources optimisation in areas with limited water resources	2010	Desalination	23
Kaldellis, J.K., Zafirakis, D., Kondili, E.	Optimum sizing of photovoltaic-energy storage systems for autonomous small islands	2010	International Journal of Electrical Power and Energy Systems	56
Zafirakis, D., Papapostolou, C., Kondili, E., Tsoutsos, T., Kaldellis, J.K.	Environmental non-governmental organizations and public awareness concerning the environment in Greece	2009	Fresenius Environmental Bulletin	1
Kaldellis, J.K., Simotas, M., Zafirakis, D., Kondili, E.	Optimum autonomous photovoltaic solution for the Greek islands on the basis of energy pay-back analysis	2009	Journal of Cleaner Production	12
Kaldellis, J.K., Zafirakis, D., Kondili, E.	Optimum autonomous stand-alone photovoltaic system design on the basis of energy pay-back analysis	2009	Energy	21
Kaldellis, J.K., Zafirakis, D., Kavadias, K., Kondili, E.	An optimum sizing methodology for combined photovoltaic-energy storage electricity generation configurations	2009	Journal of Solar Energy Engineering, Transactions of the ASME	9
Kaldellis, J.K., Zafirakis, D., Kaldellis, E., Kondili, E.	Combined photovoltaic and energy storage systems: An integrated electrification solution for small islands	2009	International Journal of Environmental Technology and Management	1
Kaldellis, J.K., Zafirakis, D., Kondili, E.	Contribution of lignite in the Greek electricity generation: Review and future prospects	2009	Fuel	23
Kaldellis, J.K., Kondili, E.M., Paliatsos, A.G.	The contribution of renewable energy sources on reducing the air pollution of Greek electricity generation sector	2008	Fresenius Environmental Bulletin	3

Authors	Title	year	JOURNAL	CITATIONS
Kondili, E., Kaldellis, J.K.	Development and operation issues of a decision support system for water management in areas with limited water resources	2008	Fresenius Environmental Bulletin	3
Kondili, E.M., Kaldellis, J.K.	Biofuel implementation in East Europe: Current status and future prospects	2007	Renewable and Sustainable Energy Reviews	52
Kavadias, K.A., Zafirakis, D., Kondili, E., Kaldellis, J.K.	The contribution of renewables on reducing the electricity generation cost in autonomous island networks	2007	2007 International Conference on Clean Electrical Power, ICCEP '07	5
Kaldellis, J.K., Kondili, E.M.	The water shortage problem in the Aegean archipelago islands: cost-effective desalination prospects	2007	Desalination	30
Kondili, E., Kaldellis, J.K.	Water use planning with environmental considerations for the Aegean islands	2006	Fresenius Environmental Bulletin	2
Kondili, E., Kaldellis, J.K.	Model development for the optimal water systems planning	2006	Computer Aided Chemical Engineering	5
Kavadias, K.A., Zafirakis, D., Kondili, E., Kaldellis, J.K.	Cost-benefit analysis of variable water pumping configurations based on wind energy surplus in autonomous electrical networks	2006	European Wind Energy Conference and Exhibition 2006, EWEC 2006	0
Kaldellis, J.K., Kondili, E., Kavadias, K.A.	Risk evolution during a wind park investment realization	2006	European Wind Energy Conference and Exhibition 2006, EWEC 2006	0
Kaldellis, J.K., Kondili, E., Filios, A.	Sizing a hybrid wind-diesel stand-alone system on the basis of minimum long-term electricity production cost	2006	Applied Energy	51
Kaldellis, J.K., Kondili, E.	Simulation of electricity production systems in autonomous networks in order to maximize the wind energy penetration	2006	Computer Aided Chemical Engineering	0
Kondili, E., Kaldellis, J.K.	Optimal design of geothermal-solar greenhouses for the minimisation of fossil fuel consumption	2006	Applied Thermal Engineering	14
Kaldellis, J.K., Kavadias, K.A., Kondili, E.	Energy and clean water coproduction in remote islands to face the intermittent character of wind energy	2006	International Journal of Global Energy Issues	15
Kondili, E.	Review of optimization models in the pollution prevention and control	2005	Computer Aided Chemical Engineering	3

Authors	Title	year	JOURNAL	CITATIONS
Kaldellis, J.K., Vlachos, G.Th., Paliatsos, A.G., Kondili, E.M.	Detailed examination of the Greek electricity sector nitrogen oxides emissions for the period 1995-2002	2005	Environmental Science and Policy	11
Kaldellis, J.K., Kavadias, K.A., Kondili, E.	Renewable energy desalination plants for the Greek islands - Technical and economic considerations	2004	Desalination	36
Kondili, E., Shah, N., Pantelides, C.C.	Production planning for the rational use of energy in multiproduct continuous plants	1993	Computers and Chemical Engineering	24
Kondili, E., Pantelides, C.C., Sargent, R.W.H.	A general algorithm for short-term scheduling of batch operations-I. MILP formulation	1993	Computers and Chemical Engineering	644
ΣΥΝΟΛΟ ΕΤΕΡΟΑΝΑΦΟΡΩΝ				1154

B5. ADDIRIONAL SCIENTIFIC AND PROFESSIONAL ACTIVITIES

- Subject Editor of Renewable Energy International Journal (published by Elsevier Science)
- Scientific Reviewer of the following scientific Journals:
 - "Renewable Energy" by Elsevier Science ltd,
 - "Fuel", published by Elsevier Science ltd,
 - "Computers and Chemical Engineering", by Elsevier Science ltd,
 - "Biofuels and Bioenergy", by Elsevier Science ltd
 - "Journal of Clean Energy Production", *Applied Energy*, published by Elsevier Science
 - "Energy Policy", published by Elsevier Science
 - "Desalination", published by Elsevier Science
 - "Fresenius Environmental Bulletin", published by Parlar Scientific Publications (PSP)
- Applied Thermal Engineering
- Member of the Scientific Committee of the European Symposium on Computer Aided Process Engineering, ESCAPE-6 (Ρόδος, 1996, Πρόεδρος), ESCAPE-17, ESCAPE-18, ESCAPE-20, ESCAPE-21, ESCAPE-22, ESCAPE-23, ESCAPE-24, ESCAPE-25, ESCAPE26

