Curriculum Vitae
CHRISTOPHER J. KORONEOS

Work Address: Unit of Environmental Science and Technology
School of Chemical Engineering
9, Iroon Polytechneiou St., Zographou Campus,
157 73, Athens
Tel.: +30 210 7723085, +30 210 7722334, Fax: +30 210 7723285
Tel: +30 210 7723085
Fax: +30 210 7723285
E-mail: koroneos@chemeng.ntua.gr
ResearchGate **https://www.researchgate.net/profile/Christopher_Koroneos/**
Google Scholar **http://scholar.google.com/citations?user=l__igeYAAAAJ&hl=en**
Science Pub Web **http://membership.sciencepublishinggroup.com/koroneos/**

EDUCATION

Dr. Eng. Sc.(Ph.D.) **Chemical Engineering, Columbia University** **1987**
Funded by University Scholarship

M.Sc. **Chemical Engineering, Columbia University** **1977**
Funded by National Science Foundation Scholarship

B.Sc. **Chemical Engineering, Columbia University** **1976**

Ph.D. **Energy Science, New York University** **1982 - 84**
Completed all the Ph.D. coursework
Tuition paid by University fellowship.

New School of Social Research, New York **1980 - 81**
Courses in Political Economy

PROFESSIONAL EXPERIENCE:

Visiting Professor **2004 - Present**
Graduate Program "Environment and Development"
National Technical University of Athens
Course Taught: "Renewable Energy Sources"

Professor **2004 - Present**

Graduate Program "Environmental Design of Infrastructure Works"
Hellenic Open University
Course Taught: "Technology for Facing Environmental Impacts"

Research Associate — 1998 – Present
Earth Engineering Center
Columbia University in the City of New York (USA)
Process Engineering, Environmental Engineering, Life Cycle Analysis

Associate Professor — 2003 – 2010
Department of Mechanical Engineering
University of Western Macedonia
Kozani, Greece
Courses Taught:

1. **"Life Cycle Assessment of Energy Systems"**
2. **"Principles and Methods for Energy Saving"**
3. **"Alternative and Renewable Energy"**

Visiting Professor/Special Scientist — 1998 - Present
Department of Mechanical Engineering
Aristotle University of Thessaloniki
Courses Taught: **"Design of Physical Processes I".**
"Design of Physical Processes II".
"Environmental Management"
"Technology for the Environmental Protection"

Senior Research Associate — 2004-Present
Unit of Environmental Science and Technology
Department of Chemical Engineering
National Technical University of Athens

Fellow, Special Scientist — 1998 – 12/2001
Greek Secretariat of Research and Technology (GGET)
Laboratory of Heat Transfer and Environmental Engineering
Aristotle University of Thessaloniki
Program: "Design of Energy Systems – Life Cycle Assessment"

Head of Program Development — 1995-1998
Earth Engineering Center
Columbia University in the City of New York (USA)

Associate Professor (Non-tenured) — 1991-1998
Department of Chemical Engineering
Columbia University in the City of New York (USA)
Courses Taught: Process Design.

Consultant — 1989- 1998
Process Design, Process Optimal Control, Energy Optimisation,
Energy Management

Senior Research Engineer **1987- 1988**

DOW Chemical, Midland, Michigan (USA)
Research in the areas of Mathematical Modelling,
Optimisation and Process Control

Process Design and Process Development Engineer **1980 – 1982**

CRAWFORD AND RUSSEL, Stamford, Connecticut (USA)
Chlorine production plants design and chlorine liquefaction systems.

Process Design and Process Development Engineer **1977-1980**

SCIENTIFIC DESIGN, New York, NY, (USA)
Development of the Ethanol Derivatives Process;
Development of the HYGAS Gasification process;
Development of the coal liquefaction process SRCII;
Development and design of the PYZEL fluidised bed cement process;
Design and erection of Ethylene oxide plants and formic Acid;

Teaching Assistantships **1983 – 1987**

Department of Chemical Engineering
Columbia University in the City of New York (USA)
Chemical Engineering Laboratory, Process design,
Numerical Methods, Advanced Biochemical Engineering

Instructor **1984-1985**

Fordham University, New York

PROFESSIONAL AFFILIATIONS

- **Marquis Who's Who** Who's Who in Science and Engineering 11th Edition, 2011-2012)
- **AIChE** American Institute of Chemical Engineers
- **TEE** Hellenic Technical Chamber
- **SETAC** Society for Environmental Toxicology and Analytical Chemistry
- **ACS** American Chemical Society
- **NYAS** New York Academy of Sciences
- **AAAS** American Association for the Advancement of Sciences
- **IGA** International Geothermal Association

PROFESSIONAL AWARDS

1. **Tau Beta Pi** Distinguished Engineer award, 1996.
2. **Great Teacher** Nominated by the students of Chemical Engineering for The "Great Teacher" award, 1996.
3. **AIChE** Best project at the National Process Design competition, 1996
4. **AIChE** Best project at the National Process Design competition, 1997
5. **AIChE** Professional Development Certificate.

PROFESSIONAL TRAINING

Knowledge of the major computer simulation packages in Chemical, Environmental and pharmaceutical process Engineering: ASPEN-PLUS, SSI PROVISION, SUPER-PRO DESIGN, CHEMSHARE DESIGN II, and SUPER TARGET.

MAJOR TEACHING FIELDS
Life Cycle Assessment of Environmental and Energy Systems
Environmental Management and Sustainable Development
Renewable Energy Sources
Design of Chemical and Physical Processes
Design of Environmental and Energy Processes

OTHER TEACHING FIELDS
Chemical and Environmental Unit Operations
Chemical and Environmental Process Synthesis
Chemical and Biochemical Reaction Kinetics and Reactor Design
Industrial Pollution Prevention Methods
Air Pollution Control
Water and wastewater Treatment
Energy Production Sources and the Environment

RESEARCH INTERESTS

- **Life Cycle Assessment (LCA)**: Products and Processes Analysis. Eco-design of products and Processes. LCA of Energy Systems. Assessment of Natural Resources Use, Environmental Impact Assessment

- **Process Engineering**: Process Design of environmental systems; Simulation of environmental and chemical systems; Environmental process synthesis; Reaction synthesis; optimisation of single and multiple objectives; Modelling and control of polymerisation reactors; dynamic simulation of systems; Desalination

- **Environmental Engineering**: Management of Solid and Liquid wastes and Air Pollution. Pollution prevention and control.

- **Energy Engineering**: Exergy Analysis, Energy conservation in the industry. Renewable energy systems: Geothermal, Biomass, Solar, and wind. Biofuels. Energy Co-generation. Coal Combustion, Gasification and liquefaction. Biomass Gasification.

SCIENTIFIC ACTIONS

1. JOURNALS- MEMBER OF THE EDITORIAL SCIENTIFIC COMMITTEE

1. **JOURNAL OF CLEANER PRODUCTION", Elsevier Publishers, *SUBJECT EDITOR* Special Issues Editor ISSN: 0959-6526, Thomson Reuters Journal Citation Report 2011, Impact Factor: 2.425, 5-Year Impact Factor: 2.598**

2. **THE INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT, Springer, *SUBJECT EDITOR. Special Issues Editor* ISSN: 0948-3349 (print version), ISSN: 1614-7502 (electronic version) 2010, Thomson Reuters Journal Citation Report 2011, Impact Factor 3.148**

3. **"INTERNATIONAL JOURNAL OF EXERGY", Inderscience Publishers. (http://www.inderscience.com/browse/index.php?journalID=135) Special Issues Invited Editor, Member of the Editorial board. Indexed in: Science Citation Index (Thomson Reuters), Scirus (Elsevier), Scopus (Elsevier), Compendex (Elsevier), Electronics & Communications Abstracts (CSA), Environmental Engineering Abstracts (CSA), Expanded Academic ASAP (Gale), General BusinessFile, ASAP International (Gale), General OneFile (Gale), Google Scholar, InfoTrac Custom Journals (Gale), Inspec (Institution of Engineering and Technology), LexisNexis Environmental, Metadex (CSA)**

4. **JOURNAL OF ENGINEERING AND APPLIED SCIENCES, Member of the Editorial Board, (http://medwelljournals.com/journalhome.php?jid=1816-949x), ISSN : 1816-949x (Print), ISSN : 1818-7803 (Online). Indexed in: Chemical Abstracts Service (CAS), Scopus, Agro Asia, World Agri. Database, MedLit, ASCI-ACR, EMBASE**

5. **INTERNATIONAL JOURNAL OF INFORMATION SYSTEMS IN THE SERVICE SECTOR (IJISSS),(http://www.igi-global.com/journal/international-journal-information-systems-service/1099), International Editorial Review Board Member. Indexed in: Bacon's Media Directory, Cabell's Directories, CSA Illumina, DBLPDBLP, Get Cited, Google Scholar, INSPEC, Library & Information Science Abstracts (LISA), Media Finder, Norwegian Social Science Data Services (NSD), The Index of Information Systems Journals, The Standard Periodical Directory, Ulrich's Periodicals Directory**

6. **INTERNATIONAL JOURNAL OF INFORMATION AND DECISION SYSTEMS (IJIDS), (http://www.inderscience.com/ijids), International Editorial Review Board Member. ISSN (Online): 1756-7025 - ISSN (Print): 1756-7017. Indexed in: Academic OneFile (Gale), DBLP Computer Science Bibliography, Expanded Academic ASAP (Gale), Google Scholar, Inspec (Institution of Engineering and Technology), Scirus (Elsevier)**

7. ***THE OPEN CONSTRUCTION AND BUILDING TECHNOLOGY JOURNAL,* Bentham Science Publishers Ltd., (http://www.benthamscience.com/open/tobctj/EBM.htm), Member of the Editorial Board. Indexed in: Directory of Open Access Journals (DOAJ), Open J-Gate, Genamics JournalSeek, MediaFinder®-Standard Periodical Directory, Compendex, Scopus, PubsHub, J-Gate.**

8. ***THE OPEN ENVIRONMENTAL SCIENCES JOURNAL,* Bentham Science Publishers Ltd., (http://www.benthamscience.com/open/toenvirj/EBM.htm). Member of the Editorial Board. Indexed in: Chemical Abstracts, CABI, Open J-Gate, Genamics JournalSeek, Directory of Open Access Journals (DOAJ), MediaFinder®-Standard Periodical Directory, Scopus, PubsHub, J-Gate.**

9. **SUSTAINABILITY JOURNAL, MDPI publishes, (http://www.mdpi.com/journal/sustainability), Member of the Editorial Board. Special Issues Editor. Indexed in: CAB Abstracts, Chemical Abstracts (CAS), Directory of Open Access Journals (DOAJ), e-Helvetica (Swiss National Library Archive), EBSCOhost, EconPapers, Food Science and Technology Abstracts (FSTA),Google Scholar, IDEAS, INSPEC, ReP, Scopus / SciVerse**

10. ***SUSTAINABILITY JOURNAL*, MDPI publishes, (http://www.mdpi.com/journal/sustainability), Editor of the Special Issue "Renewable Energy Sources and Sustainability"**

11. **DESALINATION AND WATER TREATMENT JOURNAL, Desalination Publications, Balaban, 36 Walcott Valley Dr, Hopkinton, MA 01748, USA, (http://www.deswater.com/home.php), Member of the Editorial Board. Indexed in: Web of Science, SCI and Current Contents. The first impact factor assigned in June 2011 is 0.752.**

12. **ADVANCES IN CHEMICAL ENGINEERING AND SCIENCE, Scientific Research Publishing, ISSN Print: 2160-0392, ISSN Online: 2160-0406, Member of the Editorial Board. Indexed in:DOAJ, CAS, CrossRef, Google Scholar, Ulrich, SHERPA/RoMEO**

13. **ISRN RENEWABLE ENERGY, (http://www.hindawi.com/isrn/re/), Member of the Editorial Board. Indexed in: Chemical Abstracts, Directory of Open Access Journals (DOAJ), Google Scholar, Scientific Medical Information Library Europe (SIMID S.M.I.L.E.)**

14. **JOURNAL OF CHEMICAL ENGINEERING AND MATERIAL SCIENCE, Academic Journals, (http://www.academicjournals.org/jcems/index.htm) Member of the Editor's Team**

15. **INTERNATIONAL JOURNAL OF ENVIROSCIENCE, International Academic Journals, (http://www.inacj.com/enviroscience.html) Member of the Editorial Board.**

16. **ENERGY RESERARCH JOURNAL, Scienece Publications, Member of the Editorial Board, Contributing Editor, (http://thescipub.com/editorial_erjsp)**

17. **SCIENCE DOMAIN INTERNATIONAL, Journals Publishers, Editor and Reviewer, http://www.sciencedomain.org/index.php**

18. **SCIENTIFIC JOURNAL FACTA UNIVERSITATIS, Series: WORKING AND LIVING ENVIRONMENTAL PROTECTION** (http://facta.junis.ni.ac.yu/facta/walep/waleped.html). **ISSN 0354 – 804X, Member of the Editorial board. JOURNAL OF CLEANER PRODUCTION", Elevier Publishers, *SUBJECT EDITOR***

2. CONFERENCES- MEMBER OF THE SCIENTIFIC COMMITTEE

1. **IEEES-1, THE FIRST INTERNATIONAL EXERGY, ENERGY AND ENVIRONMENT SYMPOSIUM, 1 - 5 July 2003, IZMIR-TURKEY. Member of the Scientific and the Organizing Committees.**

2. **IEEES-2, THE SECOND INTERNATIONAL EXERGY, ENERGY AND ENVIRONMENT SYMPOSIUM, 3-7 July 2005, KOS-GREECE. Chairman of the Scientific and the Organizing Committeess.**

3. **EEES-3, THE THIRD INTERNATIONAL EXERGY, ENERGY AND ENVIRONMENT SYMPOSIUM, 2 - 7 July 2007, EVORA-PORTUGAL. Memberof the Scientific and the Organizing Committee.**

4. **EEES-4, THE FOURTH INTERNATIONAL EXERGY, ENERGY AND ENVIRONMENT SYMPOSIUM, 19 – 23 April 2009, DUBAI - UAE. Member of the Scientific and the Organizing Committee.s**

5. **EEES-5, THE FOURTH INTERNATIONAL EXERGY, ENERGY AND ENVIRONMENT SYMPOSIUM, 12-15 December 2011, Luxor, Egypt. Member of the Scientific and the Organizing Committee.s**

6. **9th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 8-10 September 2005, Rhodes, Greece, Member of the Scientific Committee, http://www.gnest.org/cest/9CEST_program.pdf**

7. **LIFE CYCLE MANAGEMENT CONFERENCE, LCM2005, September 5-7, 2005, Barcelona, Spain. Member of the Scientific Committee**

8. **14th INTERNATIONAL CONFERENCE ON THERMAL ENGINEERING AND THERMOGRAMMETRY (THERMO), Budapest, Hungary. 22nd to 24th of June, 2005. Member of the Scientific Committee http://www.fsb.hr/NewsUpload/24_06_2005_2847_14th042.doc**

9. **8th CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 8-10 September 2003, Limnos, Greece, Member of the Scientific Committee**

10. **2nd INTERNATIONAL CONFERENCE ON ECOLOGICAL PROTECTION OF THE PLANET EARTH BIO-ENVIRONMENT AND BIO-CULTURE, Sofia, Bulgaria, June 5-8 2003. Member of the Scientific Committee**

11. **EUROSUSTAIN 2002, Implementing the Integrated Product Policy, 2-5 Απριλίου 2002, Rodos, Greece. Vice President of the Scientific and the Organizing Committees**

12. **SUSTAINABLE DEVELOPMENT IN TEXTILES, Boras, Sweden, November 15-16, 1999. Member of the Scientific Committee.**

13. **INTERNATIONAL GREEN ENERGY CONFERENCE (IGEC-1) Waterloo, Ontario, Canada. June 12 to 15, 2005. Member of the Scientific Committee**

14. **INTERNATIONAL GREEN ENERGY CONFERENCE (IGEC-1I) Waterloo, Ontario, Canada. June 12 to 15, 2006. Member of the Scientific Committee**

15. **WSEAS (World Scientific and Engineering Academy and Society). Member of the Working Group on Energy, Environment, Ecosystems and Sustainable Development (EEESD)**

16. **15th INTERNATIONAL CONFERENCE ON THERMAL ENGINEERING AND THERMOGRAMMETRY (THERMO), June 27th - 29th, 2007, House of Technology Budapest. Member of the Scientific Committee**

17. **THE 10TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (CEST2007), 5 – 7 September 2007, COS island, Greece. Member of the Scientific Committee**

18. **THE GLOBAL CONFERENCE ON GLOBAL WARMING (GCGW), Istanbul-Turkey, July 6-10, 2008, Member of the International Advisory Board.**

19. **THE GLOBAL CONFERENCE ON GLOBAL WARMING (GCGW), Istanbul-Turkey, July 5-9, 2009, Member of the International Advisory Board.**

20. **THE 11TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (CEST2007), 3 – 7 September 2009, CHANIA - GREECE. Member of the Scientific Committee**

21. **THE FIRST INTERNATIONAL EXERGY, LIFE CYCLE ASSESSMENT AND SUSTAINABILITY WORKSHOP AND SYMPOSIUM (ELCAS-1), June 4-6, 2009, NISYROS-GREECE, Chairman of the Organizing and Scientific Committee.**

22. **THE SECOND INTERNATIONAL EXERGY, LIFE CYCLE ASSESSMENT AND SUSTAINABILITY WORKSHOP AND SYMPOSIUM (ELCAS-2), June 19-21, 2011, NISYROS-GREECE, Chairman of the Organizing and Scientific Committee.**

23. **17th INTERNATIONAL CONFERENCE ON THERMAL ENGINEERING AND THERMOGRAMMETRY (THERMO), 6-8 July, 2011, at the Budapest University of Technology and Economics, (BME), Budapest, XI .Müegyetem rkpt.3., Hungary. Member of the Scientific Committee**

24. **Keynote Speaker, WORLD RENEWABLE ENERGY TECHNOLOGY CONGRESS, March 18-20, 2010, New Delhi, India**

25. **Member of the Scientific Committee, THE 1ST WORLD SUSTAINABILITY FORUM, November 1-30, 2011.** http://www.wsforum.org

26. **THE 12TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND Technology (CEST2012), 5 – 7 September 2011, Rhodes island, Greece. Member of the Scientific Committee**

27. **THE GLOBAL CONFERENCE ON GLOBAL WARMING (GCGW), Lisbon-Portugal, July 11-14, 2011, Member of the International Advisory Board**

28. **THE GLOBAL CONFERENCE ON GLOBAL WARMING (GCGW), Instabul-Turkeyl, July 8-12, 2012, Member of the International Advisory Board, http://www.gcgw.org**

29. **THE FIRST INTERNATIONAL CONFERENCE ON RENEWABLE ENERGIES AND VEHICULAR TECHNOLOGY - REVET 2012. Hammamet Tunisia from 26 to 28 of March, 2012. Member of the Scientific Committee.** http://www.revet2012.aiem-tn.org/revet-2012

30. **Member of the Scientific Committee, THE 2nd WORLD SUSTAINABILITY FORUM, November 1-30, 2012.** http://www.wsforum.org

31. **7TH INTERNATIONAL GREEN ENERGY CONFERENCE & THE 1ST DNL CONFERENCE ON CLEAN ENERGY, International Scientific and Advisory Committee Member, Dalian, China, May 28-30 2012,** http://igec2012.dicp.csp.escience.cn/dct/page/65542

32. **2013 INTERNATIONAL CONFERENCE ON MANUFACTURING, OPTIMIZATION, INDUSTRIAL AND MATERIAL ENGINEERING (MOIME 2013), Technical Program Committee Member, Bandung, Indonesia, 09 - 10 March 2013.** http://moime.org/

33. **13th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (CEST2013), Member of the Scientific Committee, 5 – 7 September 2013, Athens, Greece**

34. **THE 3d INTERNATIONAL EXERGY, LIFE CYCLE ASSESSMENT AND SUSTAINABILITY WORKSHOP AND SYMPOSIUM (ELCAS-2), July 7-9, 2013, NISYROS-GREECE, Chairman of the Organizing and Scientific Committee.** www.elcasnet.com

35. **THE SIXTH INTERNATIONAL EXERGY, ENERGY AND ENVIRONMENT SYMPOSIUM (IEEES-6), July 1-4, 2013, Recep Tayyip Erdoğan University (RTEU), Rize, Turkey, Member of the International Scientific & Advisory Committee.** http://ieees6.rize.edu.tr/Index.php/ieees6/ieees6

EUROPEAN ACTIONS AND COMMITTEES

1. **Vice Chairman and National Representative: European Cooperation in Science and Technology, COST TU1104 Smart Energy Regions, 2012-2016. Development of Energy Technologies for Low Carbon emissions in the Urban Environment**

2. **National Representative: European Cooperation in Science and Technology,COST Action TUD Action TU0902 Integrated Assessment Technologies To Support the Sustainable Development of Urban Areas, 2009-2013. Chairman of WG3 - Resource flows and urban ecosystem services in cities**

3. **Chairman of the European Cooperation in Science and Technology, COST Action C24: Analysis and Design of Innovative Systems for Low-EXergy in the Built Environment: COSTeXergy. Exergy Analysis of Low Enthalpy Systems. Analysis of the Built Evironment,**

4. **National Representative: European Cooperation in Science and Technology, COST Materials Action 530 "Sustainable Materials Technology, Life Cycle Inventories for Environmentally Conscious Manufacturing Processes", 2002-2006. Chairman Working Group III "Integrated Product Policy"**

5. **National Representative: European Cooperation in Science and Technology, COST Action 628 "Life cycle Assessment of Textile Products, Eco-efficiency and Definition of Best Available technology of Textile Processing", 2000-2005. Chairman Working Group II "Integrated Product Policy - Dematerialization and Ecodesign"**

6. **National Representative: European Cooperation in Science and Technology,COST Action C23 "Strategies for a Low Carbon Built Environment", 2005-2009.**

7. **UNEP-SETAC Life Cycle Initiative. Member of the Life Cycle Management definition team,** International Committee for the Definition of Guidelines for the Application of LCA in the Developing Countries.

8. **GNEST, Global Network for Environmental Science and Technology.**
   Member of the permanent Scientific Committee

9. National Representative of the **European Human Chain of Life Cycle Assessment "CHAINET", 1999-2000.** Development of the LCA Tool.

10. National Representative at the European Program for the Electronics Industry **"SCARE" (Strategic Comprehensive Approach for electronic Recycling and Re-use), 1999. Publication of the GREEN BOOK**".

11. **Member of the Committee to Examine Methods for the Use of Solid Waste in the Cement Plants, Committee of the Thessaloniki Prefecture 1999**.

12. **International Energy Technology Data Exchange of the International Energy Agency (IEA),** National Representative.

13. **Technical Chambers of Greece TCG),** Member of the Permanent Committee on Energy

14. **World Energy Council (WEC), Representative of TCG for Climate Change and Energy**.
    http://www.worldenergy.org/wec-eis/wec_info/work_programme2007/studies/ecc/com_member.asp

RESEARCH ACTIVITIES

A. SCIENTIST IN CHARGE

1. **(PAVE 97 Program), KIKIS S.A. (1999-2000)** Funded by: Hellenic General Secretariat of Research and Technology (Optimization of the Thermodynamic Efficiency in the Industrial Furnaces).
2. **(PAVE 99 Program), CRYSTAL S.A. (2000-2001)** Funded by: Hellenic General Secretariat of Research and Technology (Design of Refrigeration Units and the Use of the Peltier Phenomenon for Energy Savings
3. **Gasification of Waste from Cotton Ginning**, (1999-2000) Private Funding.
4. **Design of Energy Systems – Life Cycle Assessment (1998-2001)**, Funded by the Greek Secretariat of Research.
5. **Sustainable energy project for the economic development of remote and isolated island communities,** 1999-2000. Funded by **ALTENER 1998,** CEC/ DGXVII – Members: AUTh. - Universität Stuttgart, ENERCON GmbH, Seven Municipalities of the Islands of Dodecanese.
6. **CRYOPLANE: Liquid Hydrogen Fuelled Aircraft – System Analysis**, 2000-2002, Funded by the 5th RTD Framework Program of the EU. Budget 160.000 Euros. LCA of Hydrogen in the Use of Airplanes.
7. **Life Cycle Assessment for Small and Medium Enterprises**, 2001, Funded by IST Programme e-Content. Budget 44.000 Euro.
8. **eLCA – Database and Website for the Adoption of IPP in SMEs,** 2002 - 2004, Funded by **e-Content.** Budget 205.000 Euro. Continuation of the Program.
9. **Renewable Energy Driven Desalination Systems (REDDES),** 2001-2002, Funded by **ALTENER 2001,** Proprietor: CEC/ DGXVII – Energy Office of the Dodecanese. Budget 330.000 Euro.

10. **Integrated Product Policy in the Telecommunication Sector (IPP-TEL**),2003-2007, Funded by LIFE-Environment (http://europa.eu.int/comm/environment/life/home.htm)
11. **Research Program "Start-IPP", 2003-2007, Funded by** by LIFE-Environment (http://europa.eu.int/comm/environment/life/home.htm)
12. 13**. Research Program SUSCON-Sustainable Construction, 2004-2008.** Funded by LIFE-Environment (http://europa.eu.int/comm/environment/life/home.htm)
13. **Research Program "HESCAP", New generation, High Energy and power density SuperCAPacitor based energy storage system. Funded by FP7. Started in January 2010.**

B. PARTICIPATION IN GREEK AND EUROPEAN PROJECTS

B1. COMPLETED

1. Research and Strategic Environmental Assessment Study for the Peripheral Planning for the Management of Solid Waste in Crete, Crete Region, 2010 – 2011

2. Development and operation of an integrated, energy efficient membrane system for the advance treatment of wastewater in Cyprus, 2008-2010, Research Promotion Foundation (Cyprus)

3. Pilot application of thermal waste treatment system using plasma technology in Mykonos, 2009-2010, Municipality of Mykonos

4. Management and Valorisation of Solid Domestic Waste for the Small Urban Communities in Morocco, **WasteSUM** , LIFE-3rd Countries, 2007-2009, European Commission

5. Design and Application of an Innovative Composting Unit for the Effective Treatment of Sludge and other Biodegradable Organic Waste in Morocco', **MOROCOMP**, LIFE-3rd Countries, 2006-2008, European Commission.

6. Promotion of integrated environmental and safety management practices for industry in the Kaliningrad Region, **ESMAK**, LIFE-3rd Countries, 2006–2008, European Commission (link to **Info library**).

7. Development of tools and guidelines for the promotion of the sustainable urban wastewater treatment and reuse in the agricultural production in the Mediterranean countries, **MEDAWARE**, 2003-2007, MEDA projects, European Commission.

8. Implementation and enforcement of the environmental Acquis focused on domestic waste management – REPA Bacau, European Commission, **Twinning Project RO 2004/IB/EN/06**, 2006-2007.

9. Development of best management systems for high priority waste streams in Cyprus, **KYPROS**, LIFE-3rd Countries 2004-2006, European Commission.

10. Promotion and Implementation of Systems for the Production of High Quality Compost from Biodegradable Household Waste separated at Source, **COMWASTE**, LIFE-Environment, 2004-2006.

11. "Advanced exhaust gas recuperator technology for aero-engine applications (AEROHEX)", Coordinator: DaimlerChrysler Aerospace MTU, Munich, Germany, Research Leader AUT: N. Moussiopoulos, Prof., Department of Mechanical Engineering, AUT, Funded by: EC, 5th Framework Programme, Contract No. G4RD CT1999 00069, 2000.

12. "New qualifications and training needs in environment-related sectors". Φορέας ανάθεσης: CEDEFOP, 1999.

13. "Development and Application of Environmental Management System ISO 14001 in the Pharmaceutical School of Aristotle University, 2001-2002.

14. "Qualitative Analysis of Environmental Impacts in the University Campus of Aristotle University of Thessaloniki, 2001-2002.

B2. ONGOING PROJECTS

1. Integrated management of bio-waste in Greece – The case study of Athens, **ATHENS-BIOWASTE**, European Commission, LIFE+, LIFE10 ENV/GR/000605, 2011-2014

2. Development of a national strategy for adaptation to climate change adverse impacts in Cyprus, **CYPADAPT**, European Commission, LIFE+, LIFE10 ENV/CY/000723, 2011-2014

3. Development and implementation of a demonstration system on Integrated Solid Waste Management for Tinos in line with the Waste Framework Directive, **ISWM-TINOS**, European Commission, LIFE+, LIFE10 ENV/GR/000610, 2011-2014

4. Development of an advanced innovative energy autonomous system for the treatment of brine from seawater desalination plants, **SOL-BRINE**, European Commission, LIFE+, LIFE09 ENV/GR/000299, 2010-2013

5. Strategic Planning Towards Carbon Neutrality in Tourism Accommodation Sector, **CARBONTOUR**, European Commission, LIFE+, LIFE09 ENV/GR/000297, 2010 – 2012

6. Demonstration of an integrated waste-to-energy system for energy generation from biodegradable organic waste and wastewater, **INTERWASTE**, European Commission, LIFE+, LIFE 08/ENV/CY/00457, 2010 – 2012

7. Development and implementation of an exemplar, self-sufficient, brackish water treatment pilot plant for the production of drinking water in communities of Jordan, Greek Ministry of Exterior, 2009 – 2012

PUBLICATIONS

_ Journal: 71
_Submitted to Journals: 16
_ Books: 22
_Book Chapters: 9
_ Conference proceedings: 206
_ Diploma works advisor: 134
_ Participation in Research Projects: 34
_ Engineering Studies: 57

BOOKS AND SCIENTIFIC JOURNALS

Books

1. **C. Koroneos. MSc. Thesis "*Drag Reduction Characterization of Graft Copolymers Prepared by the Gamma Radiation of Polyethylene Oxide in the Presence of Acrylic Acid*"**, Columbia University in the City of New York, 1977

2. **C. Koroneos. PhD. Thesis *"Optimal Control of Polymerization Reactors*"** Columbia University in the City of New York, 1987

3. **C. Koroneos, J. Happel**, ***Chemical Process Economics***, Binding: Hardcover, 3d edition Publisher: Dekker Marcel Incorporated. **ISBN:** 0824799674 Marcel Dekker, New York, NY, 2001

4. **Environmental Regulatory Calculations Handbook** By Leo Stander, Louis Theodore, John Wiley & Sons, Copyright 2008. Member of the writing team

5. **Air Toxics: Problems and Solutions**, By Kumar Ganesan, Louis Theodore, R. Ryan Dupont, Copyright 1996, Overseas Publisher Association, Amsterdam. Member of the writing team

6. **Environmental management: problems and solutions,** Edited by R. Ryan Dupont, Terry E. Baxter, Louis Theodore, Copyright 1998, CRC Press LLC. Member of the writing team.

7. **Handbook of chemical and environmental engineering calculations,** Edited by Joseph P. Reynolds, John S. Jeris, Louis Theodore, Copyright 2007, John Wiley & Sons, 2007, 948 pages. Member of the writing team.

8. **Polymer Engineering and Science, Volume 20, Pages 321-707** , By Society of Plastics Engineers, 1980, Chapter: Drag reduction characterization of graft copolymers prepared by gamma radiation of poly(oxyethylene) in the presence of acrylic acid, Page 478

9. **Moussiopoulos N., Koroneos C., et al**, editors (2002), **EURO-SUSTAIN 2002**. Proceedings of the Conference. Implementing the Integrated Product Policy, 30 pp (accompanied by CD-ROM)

10. **Koroneos C., Dompros A. (2010). Exergy, Life Cycle Assessment and Sustainability (ELCAS). Proceedings of the conference "1st International Exergy Life Cycle Assessment and Sustainability Workshop & Symposium", ISBN 978-960-243-663-9, Publisher: COSTeXergy, European Union.**

11. **Koroneos C., Dompros A. Rovas D. (2011). Exergy, Life Cycle Assessment and Sustainability (ELCAS). Proceedings of the conference "2nd International Exergy Life Cycle Assessment and Sustainability Workshop & Symposium", ISBN 978-960-243-678-0, Publisher: COSTeXergy, European Union**.

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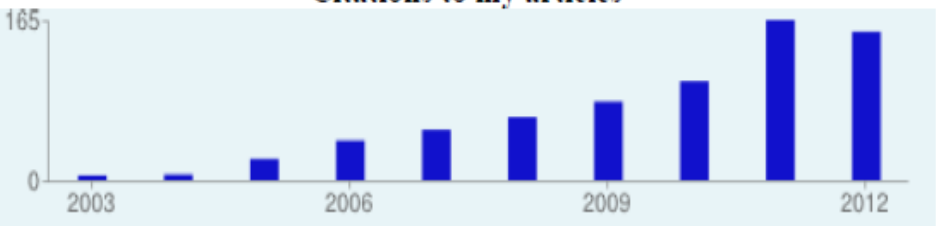

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6. **Fluidised Bed Treatment of Contaminated Sediments**
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8. **Flue Gas Desulphurization**
9. **Removal of NOx:**
10. **Integrated Coal Gasification Combined Cycle Power Generation Plant Design**
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12. **Alternative Fermentation Processes for Ethanol Production**
13. **Anhydrous Motor Fuel Ethanol Production from Corn Feedstock by Fermentation in Saccharomyces cerevisiae**
14. **Ethanol (95%) Production via Fermentation**
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38. Production of Methanol by a New Process Utilizing Methyl Formate and as an Intermediate
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40. Styrene Production from Toluene and Methanol
41. Production of Methyl *tert*-Butyl Ether
42. Alkylation Plant Evaluation
43. Ethanol Production from Ethylene: Dehydration Process
44. The Production of Ethylene from Ethane
45. Ethylene Glycol from Ethylene Oxide
46. Ethylene Oxide Production
47. Alkylation Plant Evaluation
48. Ethylene Production via Ethane
49. The Production of Mono-Sodium Glutamate
50. Production of Poly-Vinyl Chloride from Vinyl chloride Monomer
51. Citric Acid Production
52. Acetic Acid Production by Oxidation of n-Butane
53. Formic Acid Production Plant
54. Coffee Decaffeination
55. Chemical Process Design for MTBE Production
56. Production of Cumene
57. Production of Para-cumedene