

CURRICULUM VITAE



Name:	Dimitrios Sidiras
Title :	Professor
Department:	Industrial Management & Technology, School of Maritime and Industrial Studies, University of Piraeus
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1. EDUCATION

1984: Diploma, Chemical Engineer, Department of Chemical Engineering, National Technical University of Athens
1990: Doctor of Engineering (Ph.D.), Department of Chemical Engineering, National Technical University of Athens
1992: Post-Graduate Diploma on Pedagogical Studies

2. RESEARCH ACTIVITY

Participation in 31 research/other projects (in 4 as coordinator).	
RESEARCH INTERESTS / Areas of research:	
<ul style="list-style-type: none"> • Biomass and other renewable energy sources. • Experimental and computational simulation of industrial / chemical processes. • Economo-technical analysis of industrial branches / organic chemical industry. • Natural resources management. • GIS based management / Environmental management / Manufacturing of agricultural product/byproducts/residues. • Teaching methodology / Distance learning. 	
RESEARCH PROJECTS	
1985:	«The utilization of agricultural by-products». Research project, National Technical University of Athens, Department of Chemical Engineering, Div. IV.
1986-87:	«Industrial utilization of Agricultural Products and Byproducts». Fellowship of the Greek Section of Scholarships and Research of "ALEXANDER.S.ONASIS" Public Benefit Foundation, Vaduz, Liechtenstein.
1987-89:	«Paper pulp and high value added products from agricultural residues». Research Project, National Technical University of Athens,

	Department of Chemical Engineering, Div. IV, Founded by the General Secretariat for Research and Technology of Greece.
1989:	Research Project, Metallurgical Industry "SOULTATIS".
1989:	"Production of alcohol from paper refuse and other solid wastes". Technical Study. Founded by ELKEPA, TECHNOLOGICAL APPLICATIONS INSTITUTE.
1989-91:	«Agriculture and Food Industry», Cooperation of Department of Chemical Process Engineering, Veszpremi University of Chemical Engineering, Hungary, and National Technical University of Athens, Founded by General Secretariat of Research and Technology of Greece and Hungary.
1989-92:	«Software development for the optimization of wastewater treatment processes» Technical Institute of Piraeus.
1989-92:	«Economic-technical optimization of electrochemical treatments of metal surfaces at industrial scale» Technical Institute of Piraeus.
1991-93:	«Increasing of the yield and the selectivity of the acid hydrolysis of lignocellulosic biomass», Research Project (PENED 1989), National Technical University of Athens, Department of Chemical Engineering, Div. IV, Founded by the General Secretariat for Research and Technology of Greece (30%) and EU (70%).
1993:	«Evaluation of Bioenergy Applications», Research Project (JOULE), National Technical University of Athens, Department of Chemical Engineering, Div. IV, Founded by EU.
1993:	«SAST DAYS IN ATHENS», Research Project (SAST), National Technical University of Athens, Department of Chemical Engineering, Div. IV, Founded by EU.
1993-95:	«Pathways from Small Scale Experiments to Sustainable Regional Development», Research Project (ENVIRONMENT), National Technical University of Athens, Department of Chemical Engineering, Div. IV, Founded by EU. 1st Workshop (Folkecentre, Denmark, June 1993), 1st Symposium (Hydra, Greece, October 1993), 2nd Workshop (Goldegg, Austria, January 1994), 3rd Workshop (Sounio, Greece, May 1994), 4th Workshop (Roskilde, Denmark, December 1994).
1994-96:	«Computer aided optimal determination and automatic control of the condensation degree, mixing percentage and precipitation rates of activated sludge from wastewater treatment plants» Technical Institute of Piraeus.
1994-96:	«Computer aided determination of optimal service in island communities by a desalination floating unit» Technical Institute of Piraeus.
1995:	«Action plan for optimal penetration of renewables in an island's energy system: the case of electricity production» Research Project, National Technical University of Athens, Department of Chemical Engineering, Div. IV, 1/1/1995 - 30/6/1995. Founded by EU.
1995:	«Glycerol Fat Esters Activity - New Issues», Research Project, National Technical University of Athens, Department of Chemical

	Engineering, Div. IV, Founded by EU.
1996-97:	«Software development for the diagnostic for the health & safety of Laboratories in education and industry» LEONARDO DA VINCI PROGRAMME by Walter Zelber (Austria) and Technical Institute of Piraeus.
1998-99:	“Open distance learning: design and development of educational software” University of Piraeus, 1-3-98 to 31-12-99.
1998-99:	“Additional education. Production Management: Quality-quality management”, University of Piraeus 1-1-98 to 31-12-99.
2001-02:	“Impact of EU policies on a Greek catchment”, JRC/ISPRA, EU funds, University of Piraeus and Hellenic Center of Marine Research, 19-9-01 έως 15-4-02.
2002:	‘Demonstration & Large Scale Application Of The New Magnetic Method “Cleanmag” For The Clean Up Of Waterborne Oil Spills’ LIFE ENV99/GR/000567, EU: C (1999) 1800/final 40/28-07-1999, University of Piraeus, 20-3-02 to 30-9-02.
2003-05	«Introducing dimensionless units in economic functions of industrial /energy /environmental interest”, Research center of the University of Piraeus. Coordinator.
2004-05:	«Investigation of environmental problems of the operation of an olive pomace mill”, University of Piraeus and Alkalochorion Municipality (Crete).
2005-08:	“Environmental control with biosensors – Taxonomy and solution of problems with experimental and computational simulation”, EPEAEK, Pythagoras, University of Piraeus.
2006-08:	“Investigation of environmental problems of the Alkalochorion Municipality of Crete and proposed solutions”. Operation of an olive pomace mill”, University of Piraeus and Alkalochorion Municipality (Crete).
2008-2010:	“Testing Biomass – Cooperation with foreign Institutions for a research proposal”, Research Center of the University of Piraeus. Coordinator.
2010:	“Rational Design of Innovative Catalytic Technologies for Biomass Derivative Utilization”. University of Minnesota by Professor Michael Tsapatsis (Amundson Chair, Head of the Research Group, Department of Chemical Engineering and Materials Science). FUND 3014, Project 00006021, USA. Sabbatical, 11 January 2010 to 6 March 2010.
2010-14:	“Practical Exercise of the Students of the Department of Industrial Management of University of Piraeus” MIS 299957. Research project co-financed by the European Union (European Social Fund - ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program. Coordinator.
2010-15:	“Supply of Educational Laboratory Equipment and technological

	Equipment for the Undergraduate Study Programs of the University of Piraeus” MIS 384088, Operational Programme of Attica.
2013-15:	“Action of sensitization and professional development of education professionals – Axis of Priority 1, 2”. KANEP/Greek General Confederation of Labour, Education and Lifelong Learning.
2010-2015:	“THALIS - University Of Piraeus - Development Of New Material From Waste Biomass For Hydrocarbons Adsorption In Aquatic Environments.” MIS: 377356. Research project co-financed by the European Union (European Social Fund - ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program. Coordinator.

3. TEACHING

1999-today:	“Industrial Chemical Processes”, “Industrial Branches & Materials II”, “Technological Economics”, “Natural Resources Management I” and “Natural Resources Management II” – Undergraduate course of the Dep. of Industrial Management & Technology, University of Piraeus
1999-today:	“Designing of the Systems for the Protection of the Environment” – Interdepartmental Postgraduate Program “Administration and Management of Industrial Systems”, specialization: Systems for Energy Management and Protection of the Environment (in cooperation with the Dep. of Chemical Engineers of NTUA)
1999-2014:	“Simulation – Optimization of Industrial Processes” of Interdepartmental Postgraduate Program “Techno-economic Systems” Dep. of Electrical Engineers & Computer Engineers of NTUA (in cooperation with University of Athens and University of Piraeus)
2013-today:	“Land and water pollution”, “Solid waste management and recycling”, “Alternative fuels”, “Renewable energy sources”, “Systems and tools of environmental management” Postgraduate Program “Management of Industrial Systems”, specialization: Energy and Environmental Management, Univ. Piraeus.
2001-today:	Consulting Educational Staff/Tutor, “Total Quality Management and Protection of the Environment”, Dep. Business and Organizations Administration, School of Social Sciences, Hellenic Open University
1993-2007:	Associate Lecturer/Tutor of Postgraduate Program Manufacturing: Management and Technology (MSc) of Open University, UK, courses: ‘Manufacturing Materials Design’ and ‘Enterprise & the Environment’
1991-1992:	Military Navy Academy
1992-1993:	Military Air Force Academy (Ikaron).

4. COMMITTEES, ADMINISTRATIVE EXPERIENCE

- 2020: Scientific Committee Member of the 28th European Biomass Conference and Exhibition. e-EUBCE. VIRTUAL. July 2020, (i) Topic/Session Organizer of the ‘Oil based biofuels’, (ii) Paper Reviewer, (iii) Poster Awards Coordinator, and (iv) Scientific Programme Committee Member in Brussels 11-12-2019.
- 2019: Scientific Committee Member of the 27th European Biomass Conference and Exhibition. Lisbon, Portugal, May 2019, (i) Topic/Session Organizer of the ‘Oil based biofuels’, (ii) Paper Reviewer, (iii) Poster Awards Coordinator, and (iv) Scientific Programme Committee Member in Brussels 12-12-2018.
- 2018: Scientific Committee Member of the 26th European Biomass Conference and Exhibition. Copenhagen, Denmark, May 2018, (i) Topic/Session Organizer of the ‘Oil based biofuels’, (ii) Paper Reviewer, (iii) Poster Awards Coordinator, and (iv) Scientific Programme Committee Member in Brussels 12-12-2017.
- 2017: Scientific Committee Member of the 25th European Biomass Conference and Exhibition. Stockholm, Sweden, June 2017, (i) Topic/Session Organizer of the ‘Oil based biofuels’, (ii) Paper Reviewer, (iii) Poster Awards Coordinator, and (iv) Scientific Programme Committee Member in Brussels 6-12-2016. Chairman of the Oral Session “3DO.3 Production and evaluation of oil based biofuels” and the Poster Session “3DV.3 Pyrolysis oil conversion methods. Oil based biofuels production”.
- 2016: Scientific Committee Member of the 24th European Biomass Conference and Exhibition. Amsterdam, The Netherlands, June 2016, (i) Topic/Session Organizer of the ‘3.3. Oil based biofuels’, (ii) Paper Reviewer, (iii) Poster Awards Coordinator, and (iv) Scientific Programme Committee Member in Brussels 9-12-2015. Chairman of the Oral Session “3DO.3 Production and evaluation of oil based biofuels” and the Poster Session “3DV.3 Pyrolysis oil conversion methods. Oil based biofuels production”.
- 2015: Scientific Committee Member of the 23rd European Biomass Conference and Exhibition. Vienna, Austria, June 2015, (i) Topic/Session Organizer of the ‘3.6. Synthetic biofuels’, (ii) Paper Reviewer, (iii) Poster Awards Coordinator, and (iv) Scientific Programme Committee Member in Brussels 10-12-2014. Chairman of the Oral Session: ‘3CO.15. Synthetic biofuels’.
- 2015: Member of the Editorial Board: Journal of Environment & Biotechnology Research.
- 2015: Member of the Scientific Committee, as Paper Review expert: International Bioenergy (Shanghai) Exhibition and Asian Bioenergy Conference 2015, Shanghai, China, 21 - 23 October 2015.
- 2015: COST - Food Waste Valorisation for Sustainable Chemicals, Materials and Fuels (EUBis) network <http://costeubis.org/> membership.
- 2014-2017: European Biomass Research Network - EUBREN <http://www.eubren.com/>, <http://www.eubia.org/index.php/eubren> (25 Universities from 18 EC countries) membership.
- 2014-σήμερα: European Biomass Industry Association – EUBIA <http://www.eubia.org/> membership.
- 2014: Chemical Engineering Journal, Top Cited Papers for 2011 and 2012, Awarded to: Sidiras, D., Batzias, F., Schroeder, E., Ranjan, R., Tsapatsis, M., for the paper: “Dye adsorption on autohydrolyzed pine sawdust in batch and fixed-bed systems”, published in: Chemical

- Engineering Journal, 2011, Volume 171, pp. 883-896, Louise Curtis, Publishing Director, Engineering, Elsevier.
- 2014: Scientific Committee Member of the 22nd European Biomass Conference and Exhibition. Hamburg, Germany, June 2014, (i) Topic/Session Organizer of the ‘3.6. Synthetic fuels’, (ii) Paper Reviewer, (iii) Scientific Programme Committee Member in Brussels 11-12-2013. Chairman of the Oral Session: ‘3DO.7. Synthetic fuels’.
- 2014: Μέλος της Ομάδας Επιτόπιας Επαλήθευσης/Ενδιάμεσης Πιστοποίησης του φυσικού αντικειμένου έργου της Δράσης «ΣΥΝΕΡΓΑΣΙΑ 2009».
- 2013: Scientific Committee Member of the 21st European Biomass Conference and Exhibition. Copenhagen Denmark, June 2013, (i) Topic/Session Organizer of the ‘3.6 Biofuel production from synthesis gas’, (ii) Paper Reviewer, (iii) Scientific Programme Committee Member in Brussels 28-3-2013. Chairman of the Oral Session: ‘2AO.7: Challenges in Syngas Production and Utilisation for Liquid Biofuels’.
- 2013: Plenary Lecture “Lessons Learnt on Industrial Ecology as an Optimization Mechanism within the Multi-Dimensional Domain of Sustainable Development, Energy/Materials Saving and Environmental Preservation”, 7th International Conference on Energy and Development, Environment And Biomedicine (EDEB '13), Cambridge, MA, USA, January 30 - February 1, 2013.
- 2012: Plenary Lecture “Investigating Problems of Modeling/Simulating the Behavior of Oil Spills in Marine Environment”. Chairman at (i) “EG Session: Environment and Development I”, (ii) “EG Session: Environment and Development II” and (iii) “EG Session: Waste Management, Pollution and Eco-Friendly Solutions”, 5th WSEAS International Conference on Environmental and Geological Science and Engineering (EG '12). Vienna, Austria, November 10-12, 2012.
- 2012: Scientific Committee Member of the 20th European Biomass Conference and Exhibition - Setting the course for a biobased economy. Milan, Italy. 18-22 June 2012, (i) Topic/Session Organizer of the ‘Biofuel production from synthesis gas’, (ii) Paper Reviewer, (iii) Scientific Programme Committee Member in Brussels 15-3-2012 and (vi) review and scoring of the Poster presentations. Chairman of the Oral Session ‘3.6 Biofuel production from synthesis gas’.
- 2011: Plenary Lecture “Design/Development of New Adsorbents from Waste Materials within an Industrial Ecology Framework”. Chairman at “EED Session: Water Resources, Waste Water Management and Hydrology”, 9th WSEAS Int. Conf. on Environment, Ecosystems and Development (EED '11). Montreux, Switzerland, December 29-31, 2011.
- 2011: Scientific Committee Member of the 19th European Biomass Conference and Exhibition in Berlin, Germany, 6-9 June 2011, (i) Topic/Session Organizer of the ‘Bio-Based Systems and Related Technologies’, (ii) Paper Reviewer, (iii) Scientific Programme Committee Member in Brussels 3-3-2011 and (vi) review and scoring of the Poster presentations. Chairman of the Oral Session ‘Bio-processes and bio-based systems’.

5. PUBLICATIONS

Publications in Journals with ISI Impact Factor

- JIF1. D.K. Sidiras, E.G. Koukios, Acid Saccharification of Ball-Milled Straw, *Biomass*, **19**(4) 289-306 (1989)
- JIF2. D.K. Sidiras, D.P. Koullas, A.G. Vgenopoulos, E.G. Koukios, Cellulose Crystallinity as Affected by Various Technical Processes, *Cellulose Chemistry and Technology*, **24**(3) 309-317 (1990).
- JIF3. E.G. Koukios, D.K. Sidiras, The Role of Prehydrolysis in Refining Lignocellulosic Biomass, *Cellulose Chemistry and Technology*, **29** 435-450 (1995).
- JIF4. D.K. Sidiras, HYDROCEL: An application for the simulation of nonisothermal dilute acid hydrolysis of cellulose, *Cellulose Chemistry and Technology*, **32**(1-2) 19-33 (1998).
- JIF5. D.K. Sidiras, Simulation of dilute acid hydrolysis of lignocellulosic materials: wheat straw, *Cellulose Chemistry and Technology*, **32**(5-6) 405-425 (1998).
- JIF6. D. Sidiras, E. Koukios, Simulation of acid catalysed organosolv fractionation of wheat straw, *Bioresource Technology*, **94**(1) 91-98 (2004).
- JIF7. D.K. Sidiras, E.G. Koukios, Simulation of the solar hot water systems diffusion: the case of Greece, *Renewable Energy*, **29**(6) 907-919 (2004).
- JIF8. D. K. Sidiras and E.G. Koukios, Solar systems diffusion in local markets, *Energy Policy*, **32**(18) 2007-2018 (2004).
- JIF9. F.A. Batzias, D.K. Sidiras, Dye adsorption by calcium chloride treated beech sawdust in batch and fixed-bed systems, *Journal of Hazardous Materials*, **114**(1-3) 167-174 (2004).
- JIF10. D.K. Sidiras, E.G. Koukios, The effect of payback time on solar hot water systems diffusion: The case of Greece, *Energy Conversion and Management*, **46**(2) 269-280 (2005).
- JIF11. F.A. Batzias, D.K. Sidiras, E.K. Spyrou, Evaluating livestock manures for biogas production: a GIS based method, *Renewable Energy*, **30**(8) 1161-1176, (2005).
- JIF12. F.A. Batzias, D.K. Sidiras, Simulation of dye adsorption by beech sawdust as affected by pH, *Journal of Hazardous Materials*, **141**(3) 668-679 (2007).
- JIF13. F.A. Batzias, D.K. Sidiras, Dye adsorption by prehydrolysed beech sawdust in batch and fixed-bed systems, *Bioresource Technology*, **98**(6) 1208-1217 (2007).
- JIF14. F.A. Batzias, D.K. Sidiras. Simulation of methylene blue adsorption by salts-treated beech sawdust in batch and fixed-bed systems, *Journal of Hazardous Materials*, **149**(1) 8-17 (2007).
- JIF15. F. Batzias, D. Sidiras, E. Schroeder, C. Weber, Simulation of dye adsorption on hydrolyzed wheat straw in batch and fixed-bed systems, *Chemical Engineering Journal*, **148**(2-3) 459-472 (2009).
- JIF16. Sidiras, D., Batzias, F., Schroeder, E., Ranjan, R., Tsapatsis, M. Dye adsorption on autohydrolyzed pine sawdust in batch and fixed-bed systems. *Chemical Engineering Journal*, **171** (3) 883-896 (2011).
- JIF17. D. Sidiras, F. Batzias, R. Ranjan, M. Tsapatsis. Simulation and optimization of batch autohydrolysis of wheat straw to monosaccharides and oligosaccharides. *Bioresource Technology*, **102**(22) 10486-10492 (2011).
- JIF18. D. Sidiras, D. Politi, F. Batzias, N. Boukos. Efficient removal of hexavalent chromium from aqueous solutions using autohydrolyzed Scots Pine (*Pinus Sylvestris*) sawdust as

- adsorbent. *International Journal of Environmental Science and Technology* **10**(6) 1337-1348 (2013).
- JIF19. D.K. Sidoras. GIS based simulation of the biodiesel penetration in European Union markets: The case of Greece. *Biomass and Bioenergy*, **65** 101-111 (2014).
- JIF20. D. Sidoras, F. Batzias, I. Konstantinou, M. Tsapatsis. Simulation of autohydrolysis effect on adsorptivity of wheat straw in the case of oil spill cleaning. *Chemical Engineering Research and Design*, **92**(9) 1781–1791 (2014).
- JIF21. E. Baldikova, D. Politi, Z. Maderova, K. Pospiskova, D. Sidoras, M. Safarikova, I. Safarik. Utilization of magnetically responsive cereal by-product for organic dyes removal. *Journal of the Science of Food and Agriculture*. **96**(6) 2204-2214 (2016) DOI: 10.1002/jsfa.7337.
- JIF22. L. Ren, Q. Guo, M. Orazov, D. Xu, D. Politi, P. Kumar, S.M. Alhassan, K.A. Mkhoyan, D. Sidoras, M.E. Davis, M. Tsapatsis. Pillared Sn-MWW Prepared by a Solid-State-Exchange Method and its Use as a Lewis Acid Catalyst. *ChemCatChem*. **8**(7), 1274-1278 (2016) DOI: 10.1002/cctc.201600120.
- JIF23. D. Sidoras, D. Politi, G. Katsamas. Wheat straw hydrolytic pretreatment using maleic acid to enhance ethanol production from sugars. *International Journal of Oil, Gas and Coal Technology* **14** (1-2), 130-146 (2017)
- JIF24. I. Salapa, C. Katsimpouras, E. Topakas, D. Sidoras. Organosolv pretreatment of wheat straw for efficient ethanol production using various solvents. *Biomass and Bioenergy* **100**, 10-16 (2017) DOI: 10.1016/j.biombioe.2017.03.011
- JIF25. Salapa, E. Topakas, D. Sidoras Simulation and optimization of barley straw organosolv pretreatment. *Industrial Crops and Products* **113** (2018) 80-88 doi.org/10.1016/j.indcrop.2018.01.018
- JIF26. Sidoras, D.K., Nazos, A.G., Giakoumakis, G.E., Politi, D.V. (2020) Simulating the effect of torrefaction on the heating value of barley straw. *Energies* **13**(3),736. <https://doi.org/10.3390/en13030736>
- JIF27. Nazos, A.; Grammelis, P.; Sakellis E.; Sidoras, D. Acid Catalyzed Wet Torrefaction for Enhancing Heating Value of Barley Straw. *Energies* **2020**, **13**(7), 1693. <https://doi.org/10.3390/en13071693>
- JIF28. Politi, D.; Sidoras, D. Modified Spruce Sawdust for Sorption of Hexavalent Chromium in Batch Systems and Fixed-Bed Columns. *Molecules* **2020**, **25**(21), 5156. doi:10.3390/molecules25215156
- JIF29. Giakoumakis, G., Karnaouri, A., Topakas, E., Sidoras, D. Simulation and optimization of combined acid pretreatment and enzymatic saccharification of medical cotton waste. *Biomass Conversion and Biorefinery*. **2021**. **11** (2), 515-526 DOI 10.1007/s13399-020-00694-1

Publications in Journals/Series without ISI Impact Factor

- J1. F.A. Batzias, N. Abatzoglou, D.K. Sidoras, An interactive algorithmic procedure for optimal processing of biomass waste. *The Sustainable World*, **6** (2003) 987-996.
- J2. A. F.Batzias, N. P. Nikolaou, D. K. Sidoras, GIS-based Discrimination of Oil Pollution Source in an Archipelago - The Case of the Aegean. *Lecture Series on Computer and Computational Sciences*. **1** (2004) 642-646.
- J3. P. Stathatos, D.K. Sidoras, F.A. Batzias, Co-Firing Different Types of Biomass as a Contribution to Households. *Lecture Series on Computer and Computational Sciences*. **4** (2005) 872-877.

- J4. F.A. Batzias, D.K. Sidoras. Optimal Design of Cyclone/Chimney System – Implementation within an Olive Pomace Oil Mill. *Lecture Series on Computer and Computational Sciences*. **4** (2005) 887-893.
- J5. D.F. Batzias, D.K. Sidoras. Analyte in Situ Processing at Micro-Scale for Enhancing Biosensor Functionality - A New Taxonomic/Partonomic Approach. *AIP Conference Proceedings*, **963**(2) (2007) 862-867.
- J6. D.F. Batzias, V.Tsakiri, D.K. Sidoras. A Methodological Framework for Determining Optimal Dopant Density in a Biosensor Transducer. *AIP Conference Proceedings*, **963**(2) (2007) 868-873.
- J7. D.K. Sidoras. Searching for Measures of Reversibility in Continuous Adsorption through Packed Bed Columns. *AIP Conference Proceedings* **1148**(2) (2009) 586-592.
- J8. F.A. Batzias, D.K. Sidoras, Ch. Giannopoulos, I. Spetsidis. A spatio-temporal algorithmic procedure for environmental policy making in the Municipality of Arkalochori in the Greek island of Crete. *AIP Conference Proceedings* **1148**(2) (2009) 605-612.
- J9. D. Sidoras, Simulation of acid hydrolysis of lignocellulosic residues to fermentable sugars for bioethanol production, *AIP Conference Proceedings* **1504** (2012) 1091-1094.
- J10. D. Politi, D. Sidoras, Chromium (VI) purification using pine sawdust in batch systems, *AIP Conference Proceedings* **1504** (2012) 1079-1082.
- J11. D. Tsatiris, D. Sidoras, Industrial wastewater treatment in fixed-bed systems, *AIP Conference Proceedings* **1504** (2012) 1059-1062.
- J12. F. Batzias, A. Bountri, D. Sidoras, Searching For Correspondence Between Mechanismic/Deductive And Empirical/Inductive Models At Industrial Level By Means Of Dimensional Analysis, *AIP Conference Proceedings* **1504** (2012) 1051-1054.
- J13. F. Batzias, A. Bountri, D. Sidoras, A Generalized Model For Simulating Adsorption On Porous Media And Checking For Reversibility By Desorption, *AIP Conference Proceedings* **1504** (2012) 1047-1050.
- J14. D. Politi, D. Sidoras. Wastewater Treatment for Dyes and Heavy Metals Using Modified Pine Sawdust as Adsorbent. *Procedia Engineering* **42** (2012) 1969-1982.
- J15. F.A. Batzias, D.K. Sidoras, D.V. Politi. Contribution to Tannery Waste Water Treatment for Chromium Removal/Recycle by Means of Cation Exchange Resins. *Chemical Engineering Transactions* **29** (2012) 1297-1302.
- J16. F. Batzias, D. Sidoras, D. Papadopoulou. Design of an Algorithmic Procedure for Optimizing Combinations of Industrial Liquid Waste Treatment and Natural Waterbody Self-Purification for Environmental Management. *Academic Journal of Science*, **2**(2) (2013) 555 - 566.
- J17. F.A. Batzias, D.K. Sidoras, C.G. Siontorou, A.N. Bountri, D.V. Politi, O.N. Kopsidas, I.G. Konstantinou, G.N. Katsamas, I.S. Salapa, S.P. Zervopoulou. Experimental design for estimating parameter-values of modelling crude oil adsorption on thermo-chemically modified lignocellulosic biomass. *International Journal of Arts and Sciences* **7**(3) (2014) 205-222.
- J18. I. Konstantinou, D. Sidoras. Oil spill cleaning using modified wheat straw in the presence of chemical dispersant. *World Journal of Environmental Research*, **4**(2) (2014) 66-73.
- J19. G. Apostolopoulos, M. Fardis, C. Chandrinou, K. Giannakopoulos, A. Kontos, M. Bidikoudi, N. Boukos, P. Falaras, F. Batzias, D. Sidoras, C. Siontorou. Experimental Design of Laboratory Measurements for Hydrocarbons, Salts and Dyes Adsorption on Modified

- Lignocellulosic Materials in Aquatic Media. *Chemical Engineering Transactions* **39** (2014) 757-762.
- J20. D. Sidiras, D. Politi. Simulation and optimization of hexavalent chromium adsorption on autohydrolyzed Scots Pine (*Pinus Sylvestris*) sawdust in batch and fixed-bed systems. *International Journal of Environmental Engineering* **2**(1) (2015) 81-87.
- J21. C Tsiodra, K Chatzizacharia, S Papadaki, A Bakolas, D Economides, D. Sidiras, D. Hatzivramidis. Design of experiments for determining the parameters affecting the behavior of the wheat straw adsorbent of hydrocarbons dispensed in water. *Sustainable Development and Planning VII* **193** (2015) 467-476.
- J22. K. Chatzizacharia, S. Papadaki, C. Tsiodra, D. Economides, D. Sidiras, D. Hatzivramidis. Design of Experiments for determining the parameters affecting the behavior of the modified wheat straw adsorbent. *Journal of Environmental Science* **4** (2015) 94-100.
- J23. D. Sidiras, F. Batzias, C. Siontorou, G. Apostolopoulos, M. Fardis, D. Hatzivramidis, D. Economidis, L. Kamarinopoulos, Y. Pollalis, D. Batzias, M. Bidikoudi, N. Boukos, P. Falaras, C. Tsiodra, K. Chatzizacharia, S. Papadaki. Transforming Implicit to Explicit Knowledge in Economics - The case of Novel Adsorbents Production within an Industrial Ecology Framework. *International Journal of Energy and Environment* **9** (2015) 120-128.
- J24. D.K. Sidiras, I.S. Salapa, "Organosolv pretreatment as a major step of lignocellulosic biomass refining" in "Biorefinery I: Chemicals and Materials From Thermo-Chemical Biomass Conversion and Related Processes", Nicolas Abatzoglou, Universite de Sherbrooke, Canada Sascha Kersten, University of Twente, The Netherlands Dietrich Meier, Thunen Institute of Wood Research, Germany Eds, *ECI Symposium Series*, (2015). http://dc.engconfintl.org/biorefinery_I/18
- J25. D.K. Sidiras, F.A. Batzias, C.G. Siontorou, I.G. Konstantinou, I.Salapa, S.P. Zervopoulou, "Modeling of pollutant adsorption on novel modified biomass as a means of seawater decontamination" in "Biorefinery I: Chemicals and Materials From Thermo-Chemical Biomass Conversion and Related Processes", Nicolas Abatzoglou, Universite de Sherbrooke, Canada Sascha Kersten, University of Twente, The Netherlands Dietrich Meier, Thunen Institute of Wood Research, Germany Eds, *ECI Symposium Series*, (2015). http://dc.engconfintl.org/biorefinery_I/16
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- C90. M. Bidikoudi, C. Chandrinou, K. Giannakopoulos, A. Kontos, G. Romanos, N. Boukos, P. Falaras, M. Fardis, G. Apostolopoulos, F. Batzias, D. Sidiras. Laboratory scale experimental design of oil spills, salts and dyes adsorption tests on modified wheat straw. 5th International Conference on Development, Energy, Environment, Economics (DEEE '14) Florence, Italy, November 22-24, 2014, pp. 74-83.
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- C92. D.K. Sidiras, D.V. Politi, Spruce sawdust (*picea abies*) packed column for continuous removal of hexavalent chromium (VI) from wastewater. 23rd European Biomass Conference and Exhibition, Vienna, Austria, 1-4 June 2015, pp. 387-391.
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- C99. C.G. Siontorou, M. Bidikoudi, C. Chandrinou, N. Boukos, P. Falaras, M. Fardis, G. Apostolopoulos, F. Batzias and D. Sidiras, Spectroscopic Assessment of Biomass Derived Adsorbents for Oil Spill Cleaning, Proceedings of the 3rd International Conference on Recent Trends in Engineering and Technology (ICRET'2015), Sept. 2-3, 2015 Istanbul, Turkey, pp. 54-59.
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- C107. D.K. Sidiras, I.S. Salapa, D.V. Politi, G. Giakoumakis. Organosolv treated barley straw for industrial liquid waste cleaning. 25th European Biomass Conference and Exhibition, Stockholm, Sweden, 12-15 June 2017, pp. 1253 - 1258.
- C108. I.G. Gyparis, D.K. Sidiras. Assessing possible emission reductions in the energy mix: Unconventional gas or miscanthus biomass? 25th European Biomass Conference and Exhibition, Stockholm, Sweden, 12-15 June 2017, pp. 1740 - 1748.
- C109. Gyparis, I.G., Sidiras, D.K. Assessing the risk appetite of EU bioenergy and unconventional gas shareholders on regulatory changes. European Biomass Conference and Exhibition Proceedings 2018 (26th EUBCE), pp. 1268-1278
- C110. Nazos, A.G., Sidiras, D.K. Enhancing the heating value of pretreated barley straw. European Biomass Conference and Exhibition Proceedings 2018 (26th EUBCE), pp. 668-674
- C111. Giakoumakis, G., Politi, D.V., Sidiras, D.K. Torrefied medical cotton waste for industrial liquid waste cleaning. European Biomass Conference and Exhibition Proceedings 2018 (26th EUBCE), pp. 1429-1433
- C112. D. Sidiras, Modified biomass for pollution cleaning under the frames of biorefinery and sustainable circular bioeconomy, 4th International Conference on Chemical and Polymer Engineering (ICCPE'18) August 16 - 18, 2018, Madrid, Spain.
- C113. I. Salapa, P. Haralampous, G. Giakoumakis, A. Nazos, D. Sidiras, Torrefaction of barley straw for the co-production of energy and adsorbent materials, 4th International Conference on Chemical and Polymer Engineering (ICCPE'18) August 16 - 18, 2018, Madrid, Spain. Proceedings of the 4th World Congress on Mechanical, Chemical, and Material Engineering (MCM'18). Paper No. ICCPE 108, pp. 108.1-108.7, DOI: 10.11159/iccpe18.108
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- C115. A. Nazos, D. Sidiras, Torrefaction for Enhancing the Heating Value of Barley Straw. 27th European Biomass Conference and Exhibition. Lisbon, Portugal, 27-30 May 2019, pp. 1180-1184.
- C116. G. Giakoumakis, D. Sidiras, Acid Hydrolysis Pretreated Recycled Medical Cotton Waste as Heating Energy Material. 27th European Biomass Conference and Exhibition. Lisbon, Portugal, 27-30 May 2019, pp. 1213-1217.
- C117. I. Gyparis, D. Sidiras, Assessing the Biogas and Unconventional Gas Options to Fill the Gap in European Gas Production. 27th European Biomass Conference and Exhibition. Lisbon, Portugal, 27-30 May 2019, pp. 1574-1582.
- C118. I. Gyparis, D. Sidiras, A Pathway Towards the Development of EU Energy Sector: Unconventional Gas or Biofuels? 28th European Biomass Conference and Exhibition (e-EUBCE 2020) 6-9 July 2020. VIRTUAL. pp. 780-785.

- C119. D. Politi, D. Sdiras, Modified Wheat Straw For Adsorptive Removal of Hexavalent Chromium from Various Water Sources. 28th European Biomass Conference and Exhibition (e-EUBCE 2020) 6-9 July 2020. VIRTUAL. pp. 649-655.
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- C123. Giakoumakis, G.E., Politi, D.V., Sdiras, D.K. Enhancing heating value of spruce sawdust by organosolv fractionation within the biorefinery concept. European Biomass Conference and Exhibition Proceedings, 2021, pp. 945–950.

Other papers

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- A2. F.A. Batzias, D.K. Sdiras, A.F. Batzias, “Water resources management in the wider Acheloos basin area”, Final Report, Project: “Impact of EU policies on a Greek catchment”, JRC/ISPRA, 2002.
- A3. F.A. Batzias, A.S. Kakos, N.P. Nikolaou, D.K. Sdiras, “Simulation of Oil Spill Behavior”. Final Report, Project: ‘Demonstration & large scale application of the new magnetic method “CLEANMAG” for the clean up of waterborne oil spills’. LIFE, ENV99/GR/000567, 2002.

Journal Impact Factors

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α/α	Journal	Impact Factor	JCR® CATEGORY RANK IN CATEGORY QUARTILE IN CATEGORY	PAPERS
1	<i>Chemical Engineering Journal</i>	13.273	ENGINEERING, CHEMICAL in SCIE edition 4/143 Q1 ENGINEERING, ENVIRONMENTAL in SCIE edition 2/54 Q1	2
2	<i>Journal of Hazardous Materials</i>	10.588	ENGINEERING, ENVIRONMENTAL in SCIE edition 4/54 Q1 ENVIRONMENTAL SCIENCES in SCIE edition 10/274Q1	3
3	<i>Energy Conversion and Management</i>	9.709	ENERGY & FUELS in SCIE edition 10/114Q1 MECHANICS in SCIE edition 2/136 Q1 THERMODYNAMICS in SCIE edition 2/62 Q1	1
4	<i>Bioresource Technology</i>	9.642	AGRICULTURAL ENGINEERING in SCIE edition 1/14 Q1 BIOTECHNOLOGY & APPLIED MICROBIOLOGY in SCIE edition 12/159Q1 ENERGY & FUELS in SCIE edition 12/114Q1	3
5	<i>Biomass</i>		(Incorporated into <i>Bioresource Technology</i> , 1991)	1
6	<i>Renewable Energy</i>	8.001	ENERGY & FUELS in SCIE edition 16/114Q1 GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY in SCIE edition 7/44 Q1	2
7	<i>Energy Policy</i>	6.142	ECONOMICS in SSCI edition 19/377Q1 ENERGY & FUELS in SCIE edition 32/114Q2 ENVIRONMENTAL SCIENCES in SCIE edition 41/274Q1 ENVIRONMENTAL STUDIES in SSCI edition 14/125Q1	1

8	<i>ChemCatChem</i>	5.686	CHEMISTRY, PHYSICAL in SCIE edition 50/162Q2	1
9	<i>Industrial Crops and Products</i>	5.645	AGRICULTURAL ENGINEERING in SCIE edition 2/14 Q1 AGRONOMY in SCIE edition 5/91 Q1	1
10	<i>Biomass & Bioenergy</i>	5.061	AGRICULTURAL ENGINEERING in SCIE edition 3/14 Q1 BIOTECHNOLOGY & APPLIED MICROBIOLOGY in SCIE edition 36/159Q1 ENERGY & FUELS in SCIE edition 44/114Q2	2
11	<i>Biomass Conversion and Biorefinery</i>	4.987	ENERGY & FUELS in SCIE edition 45/114Q2 ENGINEERING, CHEMICAL in SCIE edition 31/143Q1	1
12	<i>Molecules</i>	4.411	BIOCHEMISTRY & MOLECULAR BIOLOGY in SCIE edition 116/298 Q2 CHEMISTRY, MULTIDISCIPLINARY in SCIE edition 63/179Q2	1
11	<i>Chemical Engineering Research & Design</i>	3.739	ENGINEERING, CHEMICAL in SCIE edition 52/143Q2	1
14	<i>Journal of the Science of Food and Agriculture</i>	3.638	GRICULTURE, MULTIDISCIPLINARY in SCIE edition 8/58 Q1 CHEMISTRY, APPLIED in SCIE edition 24/74 Q2 FOOD SCIENCE & TECHNOLOGY in SCIE edition 47/144Q2	1
12	<i>Energies</i>	3.004	ENERGY & FUELS in SCIE edition 70/114Q3	2
15	<i>International Journal of Environmental Science and Technology</i>	2.86	ENVIRONMENTAL SCIENCES in SCIE edition 148/274 Q3	1
16	<i>Cellulose Chemistry and Technology</i>	1.467	MATERIALS SCIENCE, PAPER & WOOD in SCIE edition 11/22 Q2	4
17	<i>International Journal of Oil, Gas and Coal Technology</i>	0.82	ENERGY & FUELS in SCIE edition 107/114 Q4 ENGINEERING, CHEMICAL in SCIE edition 122/143 Q4	1

			ENGINEERING, PETROLEUM in SCIE edition 15/20 Q3	
Papers in Journals with Impact Factor				29

According to Scopus® , Elsevier B.V.:

	CiteScore 2019
<i>Procedia Engineering</i>	2.7
<i>Chemical Engineering Transactions</i>	1.3
<i>AIP Conference Proceedings</i>	0.6
<i>WSEAS Transactions on Environment and Development</i>	0.3
	SJR 2006
<i>Progress in Water Resources</i>	0.111
<i>Sustainable World</i>	0.1

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Documents by author 74 Citations 1205 by 1031 documents h-index: 16	Journals: 29 ISI Proceedings: 42 Sum of the Times Cited: 1083 Sum of Times Cited without self-citations: 1031 Citing Articles: 936 Citing Articles without self-citations: 914 <i>h</i> -index: 17 Average citations per item 37.34	Total Publications 71 Sum of Times Cited 1120 Citing Articles 964 H-Index 17 Verified Peer Reviews 10	Articles 117 Citations 1975 h-index 19 i10-index 23

Reviewer

a/a	Journal	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Papers reviewed	Reference
1	Adsorption Science and Technology								1				1	
2	African Journal of Agricultural Research											1	1	
3	African Journal of Biotechnology							1					1	
4	Applied Biochemistry and Biotechnology							1					1	
5	Biochemical Engineering Journal				1								1	List of Reviewers, <i>Biochemical Engineering Journal</i> 38 (2008) 115–122.
6	Bioresource Technology						1		3	1	1	1	7	Reviewer Acknowledgment, <i>Bioresource Technology</i> , 108 (2012) 310-324. Reviewer Acknowledgement – 2014. <i>Bioresource Technology</i> , 180 (2015) 388-398
7	BioResources										1		1	
8	Bioremediation Journal										1		1	
9	Biotechnology Progress		1		1								2	
10	Cellulose Chemistry and Technology										1		1	
11	Chemical Engineering Journal					1	1	1		1	1	1	6	
12	Chemical Industry & Chemical Engineering Quarterly									1			1	
13	CLEAN - Soil, Air, Water										1	1	2	

α/α	Journal	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Papers reviewed	Reference
14	Colloids & Surfaces A: Physicochemical & Engineering Aspects				1	1							2	Acknowledgement to reviewers, <i>Colloids and Surfaces A: Physicochem. Eng. Aspects</i> 318 (2008) 1–8.
15	Desalination					3	1	1					5	
16	Desalination and Water Treatment						2		2		7	2	14	
17	Dyes and Pigments			1									1	
18	Drying Technology										1		1	
19	Energies								1		1	1	3	
20	Environmental Engineering and Management Journal							1	1				2	
21	Environmental Engineering Science							2					2	
22	Environmental Technology						1						1	
23	Fresenius Environmental Bulletin								1	1			2	
24	Industrial & Engineering Chemistry Research								1	1			2	
25	International Journal of Bio-Inspired Computation							1					1	
26	International Journal of Engineering and Technology Innovation.										1		1	
27	International Journal of Environment and Waste Management									1			1	
28	Journal of Chemical Technology and Biotechnology				1								1	
29	Journal of Chemistry									1			1	

a/a	Journal	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Papers reviewed	Reference
30	Journal of Civil Engineering and Construction Technology									1			1	
31	Journal of Environmental Engineering and Science					1							1	
32	Journal of Environmental Management		1			2				2	3	1	9	
33	Journal of Environmental Sciences						1				1		2	
34	Journal of Hazardous Materials	1	4		3	3	2	2					15	Reviewer Acknowledgment, <i>Journal of Hazardous Materials</i> 150 (2008) 191-227. 162 (1) (2009) 540-574. 173 (1-3) (2010) 799-832.
35	Journal of Petroleum and Gas Engineering										1		1	
36	Journal of the Taiwan Institute of Chemical Engineers							1			1		2	
37	Korean Journal of Chemical Engineering.							1					1	
38	Materials											2	2	
39	Neural Network World									2			2	
40	Pakistan Journal of Scientific and Industrial Research							1					1	
41	Process Biochemistry									3			3	
42	Recent patents on Chemical Engineering										1		1	
43	Separation Science and Technology						1	1	1			1	4	
44	Separation and Purification Technology							1					1	
46	Sustainability of Water Quality											1	1	

α/α	Journal	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Papers reviewed	Reference
	and Ecology													
46	Solar Energy			1									1	
47	TamKang Journal of Science and Engineering						1						1	
48	Tenside Surfactants Detergents									1	2		3	
49	Waste and Biomass Valorization										1		1	
50	Water Resources and Industry										2		2	
51	World Applied Sciences Journal						1						1	
	Papers reviewed	1	6	2	7	11	12	11	15	15	24	17	121	

6. LINGUISTIC ABILITY

Greek (high level), English (working knowledge) and French (minimal).

7. COMPUTER KNOWLEDGE

DOS, FORTRAN, GWBASIC, Visual BASIC, dBASE IV, Lotus 1-2-3, Symphony Lotus, Volkswriter, WordPerfect, AutoCAD, Framework, Windows, Word for Windows, Excel for Windows, Access, PowerPoint, Corel Draw, GIS: ArcView.

8. SEMINARS

- 1987: BIO - SYSTEMS TECHNOLOGY SEMINAR (Cycle B): «Biomass Utilization», Div.IV, Department of Chemical Engineering NTUA, 18 hrs.
- 1988: BIO - SYSTEMS TECHNOLOGY SEMINAR (Cycle D): «The Contribution of New», Div.IV, Department of Chemical Engineering NTUA, 22 hrs.
- 1989: ELKEPA: TECHNOLOGICAL APPLICATIONS INSTITUTE: «ENVIRONMENTAL MANAGEMENT», Part I, 250 hrs.
- 1991: SCIENTIFIC EDUCATIVE CENTER OF CHEMICAL ENGINEERS, «Chemical Engineer and Computers», 100 hrs.

9. OTHER TEACHING EXPERIENCE

- 1991-96: Professor (part time), TECHNICAL INSTITUTE OF PIRAEUS, Department of Technological Applications, Division of Physics Chemistry and Materials Technology, Course: «Chemical Technology».
- 1994-96: Instructor, PROFESSIONAL TRAINING INSTITUTE, East Attika, Courses: «Physical and Chemical Processes», «Chemical Technology», «Environment».
- 1994-96: Instructor, PROFESSIONAL TRAINING INSTITUTE, West Attika, Courses: «Man - Environment - Automobile».
- 1991-93: Associate of "INFORMER S.A.", Instructor, Computer Seminars.
- 1993-95: Instructor, Seminars:
1. UNIVERSITY OF PIRAEUS, RESEARCH CENTER, «New Technologies for Protection of Environment», 10 hrs, October 1993.
 2. INE/GSEE, «Food industry Wastes Utilization», 16 hrs, April 1993.
 3. INE/GSEE «OAED Project - Department of trainers training», 30 hrs, October 1994.
 4. KEK INE/GSEE “Office Automatization and Computers” 90 hrs, October 1995.
 5. KEK INE/GSEE LAMIA “Office Automatization and Computers” 80 hrs, November 1995.
 6. KEK INE/GSEE LAMIA “Management and Computers” 30 hrs, February 1996.
 7. KEK INE/GSEE “Enterprises and Computers” 24 hrs, May 1996.
 8. ASDA, «Health & Safety», 9 hrs, October 1993.
 9. EOMEX, «Foods and Drinks: Health & Safety, and Total Quality», 20 hrs, January and March 1994.
 10. EKEK (EEO Group), «Environmental Management Systems», 80 hrs, April - May 1995.
 11. ATHENS PAPERMILLS “Paper Technology” 27 hrs, December 1995.
 12. KEK XINI “Quality” 52 hrs, December 1995.
- 1984-95: Teaching Assistant, NTUA, Department of Chemical Engineering, Division IV.
- i) Postgraduate Student 1986-90,
 - ii) Fellowship (EMY), Discipline: «Biotechnological conversion of plant material for energy production» 1988-1990
 - iii) Ph.D. Researcher 1990-1995
- 1987-96: Supervisor of 8 Diploma Theses, NTUA, Department of Chemical Engineering, Division IV.
- 1987-89: Instructor at the Biosystems Technology Seminar, NTUA, Department of Chemical Engineering, Division IV.
- 1) «Acid hydrolysis model for polysaccharides», 1986-87.
 - 2) «Acid hydrolysis models for pretreated cellulose», 1987-88.
 - 3) «Plant fibers from Biomass: New pulping methods - Acid catalyzed Organosolv pulping method for straw 1988-89.

- 1995: Instructor in «PROJECTT - Training for the New Chemical: Seminar PRO-BIO», NTUA, Department of Chemical Engineering, Division IV, 8 hrs.
- 1993-95: Teaching Assistant, Course «Biomass Utilization», NTUA, Department of Chemical Engineering, Division IV.

10. MILITARY SERVICE

- 1989-1990: National service Greek Army (14 months). Experience in (a) Computer Programming and (b) Oxygen and Acetylene Industrial Production.