

CURRICULUM VITAE

AND

PUBLICATION LIST

KONSTANTINOS G. KALOGIANNIS

**RESEARCHER IN CHEMICAL ENGINEERING
CHEMICAL PROCESS AND ENERGY
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CENTRE FOR RESEARCH AND TECHNOLOGY
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PERSONAL INFORMATION

Name: Dr. Konstantinos Kalogiannis, Address: 6th km Harilaou-Thermi road, CERTH, 57001, Thessaloniki, Greece, tel.: +306942616013, +302310498357

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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=36809573300>

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CURRENT POSITION

Assistant Professor in University of Western Macedonia (UOWM), Department of Chemical Engineering

EDUCATION

2002-2006 PhD in Chemical Engineering, Aristotle University of Thessaloniki (AUTH), Chemical Engineering Department, Thessaloniki, Greece, Thesis title: "Use of supercritical fluids for the production of microparticles of biocompatible polymers and pharmaceutical compounds", Grade: Excellent.

2001-2003 MSc in Processes and Technology of Advanced Materials, Aristotle University of Thessaloniki (AUTH), Chemical Engineering Department, Thessaloniki, Greece, Grade: 9/10.

1995-2000 Bachelor in Chemical Engineering, Aristotle University of Thessaloniki (AUTH), Chemical Engineering Department, Thessaloniki, Greece, Grade: 8/10.

PROFESSIONAL EXPERIENCE

2020-2022 Project Manager, European Climate, Infrastructure and Environment Executive Agency (CINEA)

2007-2020 Researcher in Chemical Process and Energy Resources Institute (CPERI)/Centre for Research and Technology Hellas (CERTH).

2017 Visiting Researcher in Luleå Technical University, Luleå, Sweden, via COST funded Short term scientific mission (STSM) entitled "Development of hybrid organosolv/steam explosion biomass fractionation technology".

2001 Research scientist in Aristotle University of Thessaloniki (AUTH), Chemical Engineering Department.

2000 Research scientist in Aristotle University of Thessaloniki (AUTH), Chemical Engineering Department.

TEACHING EXPERIENCE

2020- Teaching of course "Design of chemical plants I" in department of Chemical engineering, University of Western Macedonia, Kozani, Greece.

2019- Teaching of course "Design of chemical plants II" in department of Chemical engineering, University of Western Macedonia, Kozani, Greece.

2006- 1. Co-supervision of PhD thesis by dr. Stylianos Stefanidis, Thesis title: "Catalytic pyrolysis of biomass for the production of alternative bio-fuels and high added value chemical products", University of Western Macedonia, Mechanical engineering department, Kozani, Greece, 2016, completed.

2. Co-supervision of 4 undergraduate and 1 postgraduate diploma dissertations in National and Kapodistrian University of Athens (NKUA), Chemistry department, Aristotle University of Thessaloniki (AUTH), Chemical Engineering Department and Eastern Macedonia and Thrace Institute of Technology, Department of Petroleum, Natural gas and Mechanical engineering.

3. Co-supervision of >25 undergraduate student trainees from Eastern Macedonia and Thrace Institute of Technology, Department of Petroleum, Natural gas and Mechanical engineering.

4. Workshop presentations

2015 Supervision of Foreign PhD thesis students and scientists (8) on lab and pilot scale chemical and thermochemical process units.

2009 Teaching professional in IEK Thessaloniki 1, Thessaloniki, Greece, course: "Characterization, type and production of gas fuels" for "Gas fuels technician"

ADMINISTRATION EXPERIENCE

- Coordination, writing and submitting tenders for equipment, consumables, new personnel.
- Research project administrative coordination.
- Research proposal administrative coordination.
- Dissemination of research results coordination via workshops, webpages, social networking.
- Guest editor in Fermentation - MDPI AG, special issue "Biomass Conversion: Fermentation Chemicals and Fuels".

RESEARCH ACTIVITIES

- Catalytic pyrolysis of biomass and organic solid wastes toward biofuels and renewable chemicals of high added value.
- Wastes valorisation for fuels and chemicals via thermochemical processes (end of life tires, plastic wastes).
- Biomass fractionation and conversion to transportation fuels, fine chemicals and food additives.
- Catalytic reaction engineering, design of novel processes and experimental units.
- Biorefineries and novel bio-based materials.

CONSULTANCY

- 2007-2012 KiOR BV Catalytic thermochemical biomass conversion technologies
- 2013-2014 SABIC Waste plastics chemical catalytic recycling technologies
- 2014 - METSO Novel biofuel production technologies

DISTINCTIONS AND AWARDS

2019 AMALTHYA proposal (Project initiator and coordinator) ranked 2nd (4.93/5) during evaluation in field of engineering sciences out of hundreds submitted, only ~8% funded.

2018 NoWasteBioTech proposal (Principal investigator) ranked 2nd (96/100) during evaluation in field of engineering sciences out of hundreds submitted, only ~7% funded.

2002 Award for excellence of the thesis of the Master's diploma.

1996 Scholarship from the Greek Ministry of education for excellence in the 1st year of studies in Chemical Engineering.

FUNDING

- 1. Coordinator – Scientific responsible**

2020 – 2023: AMALTHYA by GSRT (National) (Project budget: 1.000.000 €)

AMALTHYA brings together 3 research organizations and 1 private company from Greece with the ambition to develop a holistic biorefinery scheme that converts agro and food industry residues and wastes into functional food supplements that can add significant nutritional and economic value to food products.

2018 – 2021: NoWasteBioTech by HFRI (Project budget: 225.000 €)

NoWasteBioTech is an ambitious interdisciplinary project aiming to convert low value agricultural and forestry residues to high added value chemicals and food additives such as omega-6 fatty acids, lactic acid, prebiotics and functional phenolic monomers and oligomers from biomass wastes.

2. Principal researcher - Author of initial proposal

Industrial Research Contracts (>2.000.000 €)

2018 – : VTT Services on fast pyrolysis of lignin.

2014 – : Private Consortia (Confidential) Evaluation of catalysts for biomass catalytic pyrolysis process. Novel catalytic pyrolysis technology development in pilot scale. Process optimization and biooil upgrading.

2008 – 2013: KiOR BV Catalytic Pyrolysis Processing of Biomass for in situ-upgrading of bio-oil.

EU funding (2.000 €)

2017: COST Short term scientific mission (STSM) Development of hybrid organosolv/steam explosion biomass fractionation technology) (**Proposal budget: 2.000 €**)

This STSM was funded by COST and allowed dr. Kalogiannis to work at Lulea Technical University (LTU) in the October-November 2017 period. The collaboration with LTU yielded great networking opportunities and the chance for various conference (4) and journal (1 published, 1 will follow) papers.

National funding (>500.000 €)

2012 – 2015: SIMPLE The Sustainable Integrated Method for the Production of Lignocellulosic Ethanol (**Cperi budget: 340.000€**)

In SIMPLE the contribution of CPERI was visualized and conceptualized at the proposal stage by dr. Kalogiannis. In this project dr. Kalogiannis developed novel biomass fractionation technologies which was new technical expertise for CPERI.

2011 – 2014: NanoMgO Development of advanced nano-structured catalytic materials for energy and environmental applications utilizing Greek natural ores (**Cperi budget: 176.000€**)

In NanoMgO dr. Kalogiannis developed the process of biomass catalytic pyrolysis with novel materials based on natural occurring Magnesites. A novel reaction pathway, based on carbon coupling reactions was investigated which allowed to participate in corresponding European projects (Cascatbel).

3. Co-researcher - WP leader

Industrial Research Contracts (>2.000.000 €)

2016: CPERI-BASF Collaboration agreement FCC catalyst evaluation for BASF using pilot plant and bench scale facilities.

2015: UOP Laboratory services agreement pilot plant "Test activity for 4 (four) FCC catalysts according to technical specification" Pilot plant test activity for catalyst selection.

2015: ALBEMARLE III

2013 – 2014: CPERI/CERTH SABIC Research service collaboration proposal - Pyrolysis of polymeric materials.

2009: BP Research, Collaboration, process research and collaboration agreement relating to pyrolysis processing of hydrocarbon feedstocks.

EU funding (>5.000.000 €)

2018 - 2020 BIOCATPOLYMERS (Horizon 2020) - Sustainable and efficient bio-chemical catalytic cascade conversion of residual biomass to high quality biopolymers (**Cperi budget: 1.316.250 €**)

2014 – 2017: CASCATBEL CAScade deoxygenation process using tailored nanoCATalysts for the production of BiofuELs from lignocellulosic biomass (**Cperi budget: 1.331.125€**)

The major contribution of dr. Kalogiannis was the development of the process of in situ biomass catalytic upgrading to a novel cascade ex situ bio-oil vapors catalytic upgrading technology. Dr. Kalogiannis designed and developed a lab scale unit and evaluated experiments of catalytic upgrading.

2013 – 2016: ECOLASTANE A novel Technology for producing bio-based synthetic textile fibres from biomass-derived furanic monomers (**Cperi budget: 530.480€**)

In this work dr. Kalogiannis focused on developing hydrotreatment of biomass technology, analysis of experimental results and biomass fractionation technologies.

2012 – 2015: WAVES Waste bio-feedstocks hydro-Valorisation processes (**Cperi budget: 150.000€**)

In WAVES project focus was on upgrading bio-residues towards bio-oils of high energy density and carbon based products for use as either soil amending additives or activated carbons.

2011 - 2015: BRISK (FP7) - The European Research Infrastructure for Thermochemical Biomass Conversion

2012 – 2014: BioBoost Biomass based energy intermediates boosting biofuel production (**Cperi budget: 572.300€**)

Dr. Kalogiannis supervised a team of engineers and operators, designed the experiments, wrote scientific reports for the EU and also handled communication with consortium partners.

2009 – 2012: DIBANET The Production of Sustainable Diesel-Miscible-Biofuels from the Residues and Wastes of Europe and Latin America (**Cperi budget: 418.000€**)

Dr. Kalogiannis monitored and evaluated the work on catalytic biomass residues pyrolysis and gasification, wrote scientific reports and coordinated with the consortium partners. He was also responsible for presenting CPERI contribution to partner meetings and EU evaluations.

2009 – 2012: AFORE Forest biorefineries: Added - value from chemicals and polymers by new integrated separation, fractionation and upgrading technologies (**Cperi budget: 514.804€**)

Dr. Kalogiannis represented CPERI in the consortium and designed the novel process of lignin catalytic pyrolysis. He was responsible scientific reporting and EU evaluation.

National funding (>1.400.000 €)

2013 – 2016: JONAH-FUEL CASTOR bean (JONAH seed) cultivation in central Macedonia, Greece (**Cperi budget: 75.775€**)

In Jonah-Fuel the upgrading of castor bean seeds residues was investigated. Dr. Kalogiannis was responsible for experimental design and scientific reporting.

2012 – 2014: ENERBIO: Energy utilization of solid and liquid biofuels in the electricity production sector (**Cperi budget: 246.195€**)

In ENERBIO dr. Kalogiannis coordinated the work done by CPERI in biomass pyrolysis with his team engineers and operators in pilot and lab scale units.

2012 – 2014: CAT-BIOFUEL Novel catalytic processes for production of second generation biofuels (**Cperi budget: 540.000€**)

In CAT-BIOFUEL dr. Kalogiannis coordinated the teams involved in biomass pyrolysis. he also worked with other partners for the development of downstream upgrading processes such as hydroprocessing and hydro-deoxygenation.

2009 – 2012: HECABIO: Heterogeneous catalysis for the conversion of solid Biomass into renewable fuels and chemicals (**Cperi budget: 130.000€**)

In HECABIO project work focused on evaluation of novel catalytic systems for biomass pyrolysis for renewable fuels and chemicals production. Dr. Kalogiannis designed the experiments, evaluated the results, wrote scientific reports and supervised a phd student.

2006 – 2009: AKMON, Project 110: Development and Application of Technology for the Evaluation of Catalytic Materials for the Cracking of Heavy Fuels and Lignocellulosic Materials in long Fluidised Bed Reactors (**Cperi budget: 468.000€**)

In this project dr. Kalogiannis coordinated the work that took place in lab and pilot scale biomass pyrolysis units.

EDITOR AND REVIEWER IN SCIENTIFIC JOURNALS

Editor

- Guest editor for Fermentation - MDPI AG, special issue "Biomass Conversion, CO2 Valorisation and Power-to-X: Fermentation Chemicals and Fuels".
- Guest editor for Fermentation - MDPI AG, special issue "Biomass Conversion: Fermentation Chemicals and Fuels"
- Editorial board member of Fermentation - MDPI AG

Program committee member

- 3rd Panhellenic conference on biofuels and alternative fuels, Limni Plastira, Greece, 28&29 May 2020.
- International Conference on Applied Physics and Chemistry of Solids (IAPCS 2020), Cambridge, United Kingdom, 08-09 September 2020.

Reviewer

- Energy and Fuels – ACS
- BITE: Bioresource Technology – Elsevier
- JAAP: Journal of Analytical and Applied Pyrolysis – Elsevier
- JFUE: Fuel – Elsevier
- WM: Waste Management – Elsevier
- ECM: Energy Conversion and Management – Elsevier
- Catalysis Today – Elsevier
- Chemical Engineering Research and Design – Elsevier
- Biomass and Bioenergy – Elsevier
- Food and Bioproducts Processing – Elsevier
- Applied Thermal Engineering – Elsevier
- Fuel Processing Technology - Elsevier
- Applied Catalysis B: Environmental - Elsevier
- Science of the Total Environment - Elsevier
- Journal of CO2 Utilization - Elsevier
- IJMS: International Journal of Molecular Sciences – MDPI AG
- Catalysts – MDPI AG
- ChemEngineering – MDPI AG
- Membranes – MDPI AG
- Nanomaterials – MDPI AG
- Energies - MDPI AG
- Applied Sciences - MDPI AG
- Fibers - MDPI AG
- Polymers - MDPI AG
- Materials – MDPI AG

- RSC-Advances – RSC
- New Journal of Chemistry - RSC
- Green Chemistry - RSC
- Biomass Conversion and Biorefinery – Springer
- WAVE: Waste and Biomass Valorization – Springer
- AMB Express – SpringerOpen
- Journal of Chemical Technology & Biotechnology – Wiley
- Chemical Engineering Journal – Elsevier
- Journal of Chemistry – Hindawi
- Journal of hazardous materials – Elsevier
- Molecules – MDPI AG
- International Journal of Sustainable Energy – Taylor & Francis
- Waste management – Elsevier
- Industrial & Engineering Chemistry Research – ACS
- Journal of the Taiwan Institute of Chemical Engineers – Elsevier
- Energy reports - Elsevier

PUBLICATION SUMMARY - CITATIONS - H-INDEX (December 2022)

	All	>2017
Book chapters	5	1
In journals	52	26
In international conferences	92	44
In Greek conferences	36	7
Median Journal impact factor	4.6	4.6

Scopus

Citations: 3156

H-index: 28

Google scholar

	All	>2015
Citations:	3991	3059
H-index:	32	30
I10-index:	47	43

REVIEWER OF PROJECT PROPOSALS

- Science Fund of the Republic of Serbia – PROMIS
- CONEXPlus Fund of Spain
- HFRI – Hellenic Foundation for Research and Innovation
- Eureka
- Danmarks Innovationsfond

PUBLICATION LIST

Book Chapters

1. State-of-the-art in biomass fast pyrolysis using acidic catalysts: direct comparison between microporous zeolites, mesoporous aluminosilicates and hierarchical zeolites, K.S. Triantafyllidis, S.D. Stefanidis, S.A. Karakoulia, A. Pineda, A. Margellou, K.G. Kalogiannis, E.F. Iliopoulou, A.A. Lappas, Biomass and biowaste, De Gruyter, 2020
2. Catalytic Pyrolysis of Biomass for Transportation Fuels, Lappas, A. A., **Kalogiannis, K. G.**, Iliopoulou, E. F., Triantafyllidis, K. S. and Stefanidis, S. D., Advances in Bioenergy: The Sustainability Challenge, P. D. Lund, J. Byrne, G. Berndes and I. A. Vasalos (Eds), John Wiley & Sons, Ltd, Oxford, UK, 2016
3. Conversion of biomass to fuels and chemicals via thermochemical processes, A.A.Lappas, E. Iliopoulou, **K.Kalogiannis**, S.Stefanidis, Biorefinery: from Biomass to Chemicals and Fuels, Michele Aresta, Angela Dibenedetto, Franck Dumeignil (Eds.) De Gruyter, Aug 31, 2012
4. Biomass Catalytic Pyrolysis, A.A. Lappas, E.F. Iliopoulou, **K. Kalogiannis**, K.S. Triantafyllidis, Processes for the Production and Energetical Exploitation of Gaseous, Liquid and Solid Biofuels. North-Western Macedonia Branch of Hellenic Association of Chemical Engineers 2012
5. Catalysts in Biomass Pyrolysis, A.A. Lappas, E.F. Iliopoulou and **K. Kalogiannis**, Thermochemical Conversion of Biomass to Liquid Fuels and Chemicals”, Ch. 10, p. 263-287, RSC Publishing Eds. 2010

Papers in international peer reviewed scientific Journals

1. The Consistency of Yields and Chemical Composition of HTL Bio-Oils from Lignins Produced by Different Preprocessing Technologies, Halleraker, H.V., **Kalogiannis, K.**, Lappas, A., Rafael C. A. Castro, Ines C. Roberto, Solange I. Mussatto, S.I., Barth, T., Energies, 15(13), 4707, 2022
2. Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants, Charitopoulou, M.A., **Kalogiannis, K.G.**, Lappas, A.A., Achilias, D.o.S., Environmental Science and Pollution Research, pp. 59190–59213, 28(42), 2021
3. Production of omega-3 fatty acids from the microalga cryptocodium cohnii by utilizing both pentose and hexose sugars from agricultural residues, Asimakopoulou, G., Karnaouri, A., Staikos, S., **Kalogiannis, K.G.**, Lappas, A.A., Topakas, E., Fermentation, 7(4), 219, 2021
4. Conversion of organosolv pretreated hardwood biomass into 5-hydroxymethylfurfural (HMF) by combining enzymatic hydrolysis and isomerization with homogeneous catalysis, Dedes, G., Karnaouri, A., Marianou, A.A., **Kalogiannis, K.G.**, Lappas, A.A., Topakas, E., Biotechnology for Biofuels, 14(1), 172, 2021
5. Hydrodeoxygenation of phenol and biomass fast pyrolysis oil (bio-oil) over Ni/WO₃-ZrO₂ catalyst, Zerva, C., Karakoulia, S.A., **Kalogiannis, K.G.**, ...Papayannakos, N., Triantafyllidis, K.S., Catalysis Today, pp. 57–67, 366, 2021
6. Biomass conversion: Fermentation chemicals and fuels, **Kalogiannis, K.G.**, Fermentation, 7(2), 77, 2021
7. Production of Omega-3 Fatty Acids from the Microalga Cryptocodium cohnii by Utilizing Both Pentose and Hexose Sugars from Agricultural Residues

- G. Asimakopoulou, A. Karnaouri, S. Staikos, S.D. Stefanidis, **K.G. Kalogiannis**, A.A. Lappas, E. Topakas, *Fermentation* 7 (4), 219, 2021
8. Efficient production of nutraceuticals and lactic acid from lignocellulosic biomass by combining organosolv fractionation with enzymatic/fermentative routes, Karnaouri, A., Asimakopoulou, G., **Kalogiannis, K.G.**, Lappas, A.A., Topakas, E., *Bioresource Technology*, 341, 2021
 9. Efficient D-lactic acid production by *Lactobacillus delbrueckii* subsp. *bulgaricus* through conversion of organosolv pretreated lignocellulosic biomass, Karnaouri, A., Asimakopoulou, G., **Kalogiannis, K.G.**, Lappas, A., Topakas, E. *Biomass and Bioenergy*, 140, 2020
 10. OxiOrganosolv: a Novel Acid Free Oxidative Organosolv Fractionation for Lignocellulose Fine Sugar Streams, **Konstantinos G. Kalogiannis**, Anthi Karnaouri, Chrysoula Michailof, Anna Maria Tzika, Georgia Asimakopoulou, Evangelos Topakas and Angelos A. Lappas, *Bioresource Technology*, 2020
 11. Utilization of lignocellulosic biomass towards the production of omega-3 fatty acids by the heterotrophic marine microalga *Cryptocodinium cohnii*, A. Karnaouri, A. Chalima, **K. G. Kalogiannis**, D. Varamogianni-Mamatsia, A. Lappas, E. Topakas, *Bioresource Technology*, 2020
 12. Catalyst deactivation, ash accumulation and bio-oil deoxygenation during ex situ catalytic fast pyrolysis of biomass in a cascade thermal-catalytic reactor system, **Kalogiannis, K.G.**, Stefanidis, S.D., Lappas, A.A., *Fuel Processing Technology*, 99-109, 2019
 13. Acetic acid conversion reactions on basic and acidic catalysts under biomass fast pyrolysis conditions, Psarras, A.C., Michailof, C.M., Iliopoulou, E.F., **Kalogiannis, K.G.**, Lappas, A.A., Heracleous, E., Triantafyllidis, K.S., *Molecular Catalysis*, 33-42, 2019
 14. Effect of various pretreatment methods on bioethanol production from cotton stalks, Dimos, K., Paschos, T., Louloudi, A., **Kalogiannis, K.G.**, Lappas, A.A., Papayannakos, N., Kekos, D., Mamma, D., *Fermentation*, Vol. 5 (1), 2019
 15. Aromatics from beechwood organosolv lignin through thermal and catalytic pyrolysis, **Kalogiannis, K.G.**, Matsakas, L., Lappas, A.A., Rova, U., Christakopoulos, P., *Energies*, Vol. 12 (9), 2019
 16. Isomerization of glucose into fructose over natural and synthetic MgO catalysts, A. A. Marianou, C. M. Michailof, S. A. Karakoulia, D. Ipsakis, **K. G. Kalogiannis**, H. Yiannoulakis, K. S. Triantafyllidis, A. A. Lappas, *ACS Sustainable Chemistry & Engineering*, accepted awaiting publication, 2018.
 17. Acetone/water oxidation of corn stover for the production of bioethanol and prebiotic oligosaccharides, Constantinos Katsimpouras, Grigorios Dedes, Perrakis Bistis, Dimitrios Kekos, **Konstantinos G. Kalogiannis**, Evangelos Topakas, *Bioresource Technology*, 270, 208–215, 2018.
 18. Utilization of poultry industry wastes for liquid biofuel production via thermal and catalytic fast pyrolysis, Ismail Cem Kantarli, Stylianos D. Stefanidis, **Konstantinos G. Kalogiannis**, Angelos A. Lappas, *Waste Management & Research*, accepted to be published, 2018.
 19. Kinetic modeling of ex-situ biomass catalytic pyrolysis, D. Ipsakis, E. Heracleous, K. Gkinis, S.D. Stefanidis, **K.G. Kalogiannis**, A.A. Lappas, *Materials Today: Proceedings*, 2018, in press.
 20. First Pilot Scale Study of Basic vs Acidic Catalysts in Biomass Pyrolysis: Deoxygenation Mechanisms and Catalyst Deactivation, **K.G. Kalogiannis**, S.D. Stefanidis, S.A. Karakoulia,

K.S. Triantafyllidis, H. Yiannoulakis, C. Mihailof, A.A. Lappas, Applied Catalysis B: Environmental, <https://doi.org/10.1016/j.apcatb.2018.07.016>, 2018.

21. Acid Assisted Organosolv Delignification of Beechwood and Pulp Conversion towards High Concentrated Cellulosic Ethanol via High Gravity Enzymatic Hydrolysis and Fermentation, **Konstantinos G. Kalogiannis**, Leonidas Matsakas, James Aspden, Angelos A. Lappas, Ulrika Rova and Paul Christakopoulos, *Molecules*, 23, 1647; doi:10.3390/molecules23071647, 2018.

22. Catalytic upgrading of pyrolysis vapours: Effect of catalyst support and metal type on phenolic content of bio-oil, Elif Yaman, Adife Seyda Yargic, Nurgul Ozbay, Basak Burcu Uzun, **Konstantinos G. Kalogiannis**, Stelios. D. Stefanidis, Eleni Iliopoulou, Angelos. A. Lappas, *Journal of Cleaner Production*, Vol. 185, 52-61, 2018.

23. Co-processing bio-oil in the refinery for drop-in biofuels via fluid catalytic cracking, Stelios. D. Stefanidis, Konstantinos G. Kalogiannis, Angelos. A. Lappas, *WIREs*, Vol. 7 (3) e28110.1002/wene.281, 2018.

24. Production of high concentrated cellulosic ethanol by acetone/water oxidized pretreated beech wood, Constantinos Katsimpouras, **Konstantinos G. Kalogiannis**, Aggeliki Kalogianni, Angelos A. Lappas and Evangelos Topakas, *Biotechnology for Biofuels*, 10 (1) (2017)

25. Comparative Study on Catalytic and Non-Catalytic Pyrolysis of Olive Mill Solid Wastes, Christoforou, E.A., Fokaides, P.A. , Banks, S.W., Nowakowski, D., Bridgwater, A.V., Stefanidis, S., Kalogiannis, K.G., Iliopoulou, E.F., Lappas, A.A., *Waste and Biomass Valorization* (2017), 1-13

26. Catalytic Fast Pyrolysis: Influencing Bio-Oil Quality with the Catalyst-to-Biomass Ratio, Paasikallio, V., **Kalogiannis, K.**, Lappas, A., Lehto, J., Lehtonen, J. , *Energy Technology*, Volume 5, Issue 1, 1 January 2017, Pages 94-103

27. Castor bean cake residues upgrading towards high added value products via fast catalytic pyrolysis, **Konstantinos G. Kalogiannis**, Stylianos D. Stefanidis, Chrysoula M. Michailof, Angelos A. Lappas, *Biomass and Bioenergy*, 95 (2016), 405-415

28. Advanced analytical techniques for bio-oil characterization, C.M. Michailof, **K.G. Kalogiannis**, T. Sfetsa, D.T. Patiaka and A.A. Lappas, *WIREs: Energy and Environment* 5 (6) (2016), 614-639

29. Catalyst hydrothermal deactivation and metal contamination during the in situ catalytic pyrolysis of biomass, Stylianos D. Stefanidis, **Konstantinos G. Kalogiannis**, Petros A. Pilavachi, Christoph M. Fougret, Edgar Jordan, Angelos A. Lappas, *Catalysis Science & Technology* 6 (2016), 2807-2819

30. Natural magnesium oxide (MgO) catalysts: A cost-effective sustainable alternative to acid zeolites for the in situ upgrading of biomass fast pyrolysis oil, S.D. Stefanidis, S.A. Karakouli, **K.G. Kalogiannis**, E.F. Iliopoulou, A. Delimitis, H. Yiannoulakis, T. Zampetakis, A.A. Lappas, K.S. Triantafyllidis, *Applied Catalysis B: Environmental* 196 (2016), 155-173

31. Biomass catalytic pyrolysis: process design and economic analysis, Vasalos I. A., Lappas A. A., Kopalidou E. P., **Kalogiannis K. G.**, *WIREs Energy Environ.* 2016, 5: 370-383. doi: 10.1002/wene.192

32. Urea-formaldehyde (UF) resins prepared by means of the aqueous phase of the catalytic pyrolysis of European beech wood. COST Action FP1105, E. Papadopoulou, S. Kountouras, Z. Nikolaidou, K. Chrissafis, C. Michailof, **K. Kalogiannis** and A. A. Lappas., *Holzforschung* 2016, doi: 10.1515/hf-2016-0056

33. Optimization of bio-oil yields by demineralization of low quality biomass, *Stylianos D. Stefanidis, Eleni Heracleous, Despoina T. Patiaka, Konstantinos G. Kalogiannis, Chrysoula M. Michailof, Angelos A. Lappas*, *Biomass and Bioenergy* 83 (2015), 105-115
34. Pyrolysis of lignin with 2DGC quantification of lignin oil: Effect of lignin type, process temperature and ZSM-5 in situ upgrading, *Konstantinos G. Kalogiannis, Stylianos D. Stefanidis, Chrysoula M. Michailof, Angelos A. Lappas, Elisabeth Sjöholm*, *Journal of Analytical and Applied Pyrolysis* 115 (2015), 410-418
35. Lignocellulosic Biomass Fractionation as a Pretreatment Step for Production of Fuels and Green Chemicals, *Konstantinos Kalogiannis, Stylianos Stefanidis, Asimina Marianou, Chrysoula Michailof, Aggeliki Kalogianni, Angelos Lappas*, *Waste and Biomass Valorization* 6 (2015), 781-790
36. Quantitative and qualitative analysis of hemicellulose, cellulose and lignin bio-oils by comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry, *Chrysoula Michailof, Themistoklis Sfetsas, Stylianos Stefanidis, Konstantinos Kalogiannis, Georgios Theodoridis, Angelos Lappas*, *Journal of Chromatography A* 1369 (2014), 147-160
37. Pyrolysis and catalytic pyrolysis as a recycling method of waste CDs originating from polycarbonate and HIPS, *E.V. Antonakou, K.G. Kalogiannis, S.D. Stephanidis, K.S. Triantafyllidis, A.A. Lappas, D.S. Achilias*, *Waste Management* 34 (2014), 2487-2493
38. A study of lignocellulosic biomass pyrolysis via the pyrolysis of cellulose, hemicellulose and lignin, *Stylianos D. Stefanidis, Konstantinos G. Kalogiannis, Eleni F. Iliopoulou, Chrysoula M. Michailof, Petros A. Pilavachi, Angelos A. Lappas*, *Journal of Analytical and Applied Pyrolysis*, Volume 105, January 2014, 143–150
39. Pilot-scale validation of Co-ZSM-5 catalyst performance in the catalytic upgrading of biomass pyrolysis vapours, *E. F. Iliopoulou, S. Stefanidis, K. Kalogiannis, A. C. Psarras, A. Delimitis, K. S. Triantafyllidis and A. A. Lappas*, *Green Chemistry* 16 (2014), 662-674
40. Second-generation biofuels by co-processing catalytic pyrolysis oil in FCC units, *N. Thegarid, G. Fogassy, Y. Schuurman, C. Mirodatosa, S. Stefanidis, E.F. Iliopoulou, K. Kalogiannis, A.A. Lappas*, *Applied Catalysis B: Environmental*, Volume 145, February 2014, 161–166
41. Catalytic and thermal pyrolysis of polycarbonate in a fixed-bed reactor: the effect of catalysts on products yields and composition, *E.V. Antonakou, K.G. Kalogiannis, S.D. Stefanidis, S.A. Karakoulia, K.S. Triantafyllidis, A.A. Lappas, D.S. Achilias*, *Polymer Degradation and Stability* 110 (2014), 482–491
42. Mesopore-modified Mordenites as catalysts for catalytic pyrolysis of biomass and cracking of vacuum gas oil processes, *S. Stefanidis, K. Kalogiannis, E. F. Iliopoulou, A. A. Lappas, J. Martínez Triguero, M. T. Navarro, A. Chica and F. Rey*, *Green Chemistry*, Volume 15, Issue 6, 2013, Pages 1647-1658
43. Catalytic pyrolysis of biomass for transportation fuels, *Lappas, A.A., Kalogiannis, K.G., Iliopoulou, E.F., Triantafyllidis, K.S., Stefanidis, S.D.*, *Wiley Interdisciplinary Reviews: Energy and Environment*, 2012
44. An Integrated Process for the Production of Platform Chemicals and Diesel Miscible Fuels by Acid-Catalyzed Hydrolysis and Downstream Upgrading of the Acid Hydrolysis Residues with Thermal and Catalytic Pyrolysis, *Girisuta, B., Kalogiannis, K.G., Dussan, K., Leahy, J.J., Hayes, M.H.B., Stefanidis, S.D., Michailof, C.M., Lappas, A.A.*, *Bioresource Technology* 126 (2012) 92–100

45. Catalytic upgrading of biomass pyrolysis vapours using transition metal-modified ZSM-5 zeolite, *Iliopoulou, E.F., Stefanidis, S.D., Kalogiannis, K.G., Delimitis, A., Lappas, A.A., Triantafyllidis, K.S.*, Applied Catalysis B: Environmental 127 (2012) 281–290
46. In-situ upgrading of biomass pyrolysis vapors: catalyst screening on a fixed bed reactor, *S. D. Stefanidis, K. G. Kalogiannis, E. F. Iliopoulou, A. A. Lappas, P. A. Pilavachi*, Bioresource Technology 102 (2011), 8261-8267
47. Catalytic upgrading of lignocellulosic biomass pyrolysis vapours: Effect of hydrothermal pre-treatment of biomass, *S. Stephanidis, C. Nitsos, K. Kalogiannis, E.F. Iliopoulou, A.A. Lappas, K.S. Triantafyllidis*, Catalysis Today, Volume 167, Issue 1, 10 June 2011, Pages 37-45
48. Bubble and Cloud Points of the Systems Poly(ε-caprolactone) + Carbon Dioxide + Dichloromethane or Chloroform, *Kalogiannis, C. G.; Panayiotou, C. G.*, J. Chem. Eng. Data; 2006; 51(1); 107-111
49. Microencapsulation of Amoxicillin in Poly(L-lactic acid) by Supercritical Antisolvent Precipitation, *Kalogiannis, C. G.; Michailof C.M.; Panayiotou, C. G.*, Ind. Eng. Chem. Res.; 2006; 45 (26); 8738-8743
50. Bubble and Cloud Points of the System Poly(L-lactic acid) + Carbon Dioxide + Dichloromethane, *Kalogiannis, C. G.; Panayiotou, C. G.*, J. Chem. Eng. Data; 2005; 50(4); 1442-1447
51. Production of Amoxicillin Microparticles by Supercritical Antisolvent Precipitation, *Kalogiannis, C. G.; Pavlidou, E.; Panayiotou, C. G.*, Ind. Eng. Chem. Res.; 2005; 44(24); 9339-9346
52. Phase compositions and saturated densities for the binary systems of carbon dioxide with ethanol and dichloromethane, *Tsivintzelis, D. Missopolinou, K. Kalogiannis, C. Panayiotou*, Fluid Phase Equilibria, 2004, 224, 89–96

Papers in international peer reviewed conferences with proceedings (>2 pages)

53. Solid-catalyst assisted OxiOrganosolv pre-treatment of wheat straw for enzymatic and microbial conversion to bioactive food additives, *Stefanidis S.D., Kalogiannis K.G, Karakoulia S.A., Marianou A., Staikos S., Karnaouri A., Topakas E. and Lappas A.A.*, 9th IUPAC International Conference on Green Chemistry, Athens, Greece September 5-9, 2022
54. Solid catalyst-assisted OxiOrganosolv fractionation of wheat straw for enzymatic and microbial conversion to nutraceuticals, *Stylianos D. Stefanidis, Konstantinos G. Kalogiannis, Stamatia A. Karakoulia, Georgia Asimakopoulou, Anthi Karnaouri, Evangelos Topakas, Angelos A. Lappas*, EUBCE 2022, 30th European Biomass Conference & Exhibition, ONLINE, May, 9-12, 2022
55. Production of polyunsaturated omega-3 fatty acids from forest and agricultural resources by the heterotrophic marine microalgae *Cryptocodium cohnii*, *Anthi Karnaouri, Georgia Asimakopoulou, Savvas Staikos, Konstantinos G. Kalogiannis, Stylianos D. Stefanidis, Angelos A. Lappas, Evangelos Topakas*, 9th Conference of MIKROBIOKOSMOS, Athens, Greece, December 16-18, 2021
56. An integrated process for the valorization of sugar streams after organosolv pretreatment of lignocelluloses towards the production of nutraceuticals and polymer building blocks, *A. Karnaouri, K. Kalogiannis, A. Chalima, G. Asimakopoulou, A. Lappas, E. Topakas*, 8th International conference on sustainable solid waste management, Thessaloniki, Greece, 2-5 September, 2020.

57. An integrated Mild oxidative organosolv for lignocellulosic biomass fractionation – Towards second generation biorefineries, K. G. Kalogiannis, A. Karnaouri, A.M. Tzika, C.M. Michailof, E. Topakas, A.A. Lappas, 8th International conference on sustainable solid waste management, Thessaloniki, Greece, 2-5 September, 2020.
58. Efficient production of nutraceuticals from lignocellulosic biomass by combining organosolv fractionation with enzymatic/fermentative routes Karnaouri A., Kalogiannis K., Chalima A., Asimakopoulou G., Lappas A. and Topakas E., 9th IUPAC International Conference on Green Chemistry (9th ICGC), Athens, Greece, 18 – 22 October 2020.
59. OxiOrganosolv – a novel agnostic fractionation pretreatment for lignocellulosic biomass residues valorization towards high added value chemicals and food additives, Kalogiannis K., Karnaouri A., Michailof M., Tzika A.M., Karakoulia S., Zerva A., Topakas E., Lappas A., 9th IUPAC International Conference on Green Chemistry (9th ICGC), Athens, Greece, 18 – 22 October 2020.
60. Process design and techno-economic evaluation of the organosolv-derived lignin pyrolysis towards platforms chemicals and biofuels, D. Ipsakis, T. Blempoutzakis, S. Stephanidis, K. Kalogiannis, L. Matsakas, U. Rova, P. Christakopoulos, A. Lappas, K. Triantafyllidis, E. Heracleous, 1st International conference on smart energy carriers, Napoli, Italy, 21-23 January, 2019.
61. Mild oxidative organosolv pretreatment of lignocellulosic biomass residues for high added value chemicals and food additives via fermentation processes, Kalogiannis K., Michailof M., Lappas A., Karnaouri A., Chalima A., Topakas E., 17th International conference on chemistry and the environment, Thessaloniki, Greece, 16-20 June, 2019.
62. OVERVIEW ON RESEARCH ACTIVITIES OF THE LABORATORY OF ENVIRONMENTAL FUELS AND HYDROCARBONS IN BIOMASS VALORIZATION, K. G. Kalogiannis, C. Michailof, A. Marianou, S. Karakoulia, E. Iliopoulou, A. A. Lappas, ENMIX 7th Workshop, 2019.
63. Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants, Charitopoulou M.A., Kalogiannis K.G., Lappas A.A., Achilias D.S., 17th International conference on chemistry and the environment, Thessaloniki, Greece, 16-20 June, 2019.
64. Utilization of lignocellulosic biomass for the production of omega-3 fatty acids by the marine microalgae *Cryptocodinium cohnii*, Anthi Karnaouri, Panagiotis Kostopoulos, Angelina Chalima, Konstantinos Kalogiannis, Angelos Lappas, Evangelos Topakas, 7TH INTERNATIONAL CONFERENCE ON SUSTAINABLE SOLID WASTE MANAGEMENT, Heraklion, Crete Island, Greece, 26-29 June 2019.
65. Efficient lactic acid production through conversion of organosolv pretreated lignocellulosic biomass by Lactic Acid Bacteria, Asimakopoulou Georgia, Karnaouri Anthi, Perraki Dioni, Kalogiannis Konstantinos, Lappas Angelos, Topakas Evangelos, 7TH INTERNATIONAL CONFERENCE ON SUSTAINABLE SOLID WASTE MANAGEMENT, Heraklion, Crete Island, Greece, 26-29 June 2019.
66. CATALYTIC PYROLYSIS OF OLIVE MILL WASTES: FROM A POLLUTANT TO GREEN FUEL, E.F. Iliopoulou, E.Pachatouridou, C. Mihailof, K. Kalogiannis, A.A. Lappas, 4th Iberoamerican Congress on biorefineries, Jaen, Spain, October 22-24, 2018
67. Enhanced bioethanol production from acetone/water oxidation pretreated corn stover at high-gravity, Constantinos Katsimpouras, Perrakis Bistis, Konstantinos G. Kalogiannis, Evangelos Topakas, 5th International Conference on Sustainable Solid Waste Management, Athens, 21–24 June 2017

68. In-situ catalytic fast pyrolysis of poultry wastes, I.C. Kantarli, S. D. Stefanidis, K. G. Kalogiannis, A. A. Lappas, 5th International Conference on Sustainable Solid Waste Management, Athens, 21–24 June 2017
69. Catalytic pyrolysis of pre-treated walnut shell using metal loaded ZSM-5 catalyst, E. Yaman, B.B. Uzun, K. G. Kalogiannis, S. D. Stephanidis, A. A. Lappas, 11th Conference on Sustainable Development of Energy, Water and Environment Systems – SDEWES, Lisbon, Portugal, 2016.
70. Effects of SBA-15 Supported Al or Fe Mesoporous Materials on Phenolic Content of Bio-Oil via Catalytic Upgrading of Pyrolysis Vapours, Adife Seyda Yargica, Nurgul Ozbay, Kostas Kalogiannis, Stylianos Stephanidis, Eleni Iliopoulou, Stylianos Stephanidis, Angelos Lappas, 11th Conference on Sustainable Development of Energy, Water and Environment Systems – SDEWES, Lisbon, Portugal, 2016.
71. Fractionation and depolymerization of lignocellulosic biomass via organic solvents and hydrothermal heterogeneous catalysis, K. G. Kalogiannis, A. Kalogianni, A. Marianou, C. Michailof, E. Iliopoulou, and A. Lappas, 3rd International Symposium on Green Chemistry, La Rochelle, France, May 3-7, 2015
72. Lignocellulosic biomass fractionation as a pretreatment step for production of fuels and green chemicals, K. G. Kalogiannis, A. Marianou, C. Michailof, S. Stefanidis, A. Kalogianni and A. Lappas, Symbiosis International Conference 2014, 19-21 June 2014, Athens, Greece
73. Characterization studies of Waste- bio-derived feedstocks, E.F. Iliopoulou, C. Mihailof, K. Kalogiannis, M. Pachnos, M. Emmanouilidou and A.A. Lappas, Symbiosis International Conference, Athens, Greece, 19-21 June, 2014
74. Pyrolysis as a thermo-chemical recycling method of polycarbonate based plastics, E.V. Antonakou, K.G. Kalogiannis, S.D. Stephanidis, A.A. Lappas and D.S. Achilias, Protection and restoration of the environment XI, Thessaloniki, Greece, July 2012
75. Production of upgraded biooils from miscanthus acid hydrolysis residues by catalytic pyrolysis – feed and acid hydrolysis conditions effect, K. Kalogiannis, S. Stephanidis, C. Michailof, A. Lappas, 20th European Biomass Conference and Exhibition, Milan, Italy, June 18-22, 2012
76. In situ catalytic upgrading of biooil with novel and commercial catalysts, from bench to pilot plant scale, K.G. Kalogiannis, S.D. Stephanidis, S.S. Voutetakis, A.A. Lappas, AIChE, Salt Lake City, USA, 7 – 12 November 2010
77. Catalytic biomass pyrolysis in a transported fluid bed pilot plant unit for the production of biooil with improved quality, A.A. Lappas, V. Dimitropoulos, E. Antonakou, K. Kalogiannis, Proceedings of 16th European Biomass Conference and Exhibition, Valencia, Spain, 2008
78. Phase separation and micronisation study of the ternary system Poly(l-lactic acid) + carbon dioxide + dichloromethane, K. Kalogiannis, E. Pavlidou and C. Panayiotou, Proceedings of the 7th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2005), Ed. M. Lalia-Kantouri, Thessaloniki, 2005, pp. 98-102
79. Paracetamol micronisation by precipitation with supercritical carbon dioxide with the SAS and SEDS process – influence of process parameters, K. Kalogiannis, Lambrou Ch, Y.-W. Lee, and C. Panayiotou, Proceedings of the 6th International Symposium on Supercritical Fluids, Versailles, France, 2003

Papers in international peer reviewed conferences with proceedings (<2 pages)

80. 1. Valorization of agricultural biomass residues towards the production of docosahexaenoic acid (DHA) by the heterotrophic dinoflagellate *Cryptocodinium cohnii*, S. Staikos, A. Karnaouri, S.D. Stefanidis, K.G. Kalogiannis, A.A. Lappas, E. Topakas, CORFU2022 - 9th International Conference on Sustainable Solid Waste Management, Corfu, Greece, June 15-18, 2022
81. Novel one step oxidative organosolv pretreatment of wood residues for high added value chemicals and food additives, Kalogiannis K., Michailof M., Lappas A., Nordic Wood Biorefinery Conference, Stockholm, Sweden, 13–15 October 2020.
82. Novel oxide carbon coupling catalysts for the thermochemical valorization of lignocellulosic biomass and biomass wastes, Konstantinos Kalogiannis, Eleni Iliopoulou, Chrysa Mihailof, Angelos Lappas, Catbior V, September 23-27, Turku / Åbo Finland, 2019.
83. Heterogeneously catalysed conversion of glucose to glucaric acid, C. MICHAÏLOF, A. LAPPAS, S. KARAKOULIA, A. MARIANOÛ, K. KALOGIANNIS, International symposium on green chemistry (ISGC), La Rochelle, France, May 13-17, 2019.
84. Lactic acid production via High Gravity Enzymatic Hydrolysis and Fermentation by Lactic Acid Bacteria, Asimakopoulou G., Karnaouri A., Perraki D., Kalogiannis K., Lappas A., Topakas E., 8th Congress of the Scientific Society "MikroBioKosmos, Patra, Greece, 18-20 April, 2019.
85. Single Step Organosolv Oxidative Pretreatment of Lignocellulosic Biomass for Valorisation to High Added Value Chemicals and Food Additives, K. G. Kalogiannis, A. Kalogianni C.M. Michailof, E. Topakas, A. Karnaouri and A.A. Lappas, XXIX Interamerican Congress of Chemical Engineering and 68th Canadian Chemical Engineering Conference, Toronto, Canada, October 28-31, 2018
86. Development of a lumped kinetic model for the ex-situ biomass catalytic pyrolysis, Dimitris Ipsakis, Eleni Heracleous, Klontian Gkinis, Stylianos D. Stefanidis, Konstantinos G. Kalogiannis, Dimitris Iatridis, Angelos A. Lappas, 25th International Symposium of Chemical Reaction Engineering, Florence, Italy, May 20-23, 2018
87. A lumped kinetic modeling approach for biomass pyrolysis, Dimitris Ipsakis, Eleni Heracleous, Klontian Gkinis, Stylianos D. Stefanidis, Konstantinos G. Kalogiannis, Angelos A. Lappas, IMPROOF Workshop, Gas phase reaction kinetics of biofuels oxygenated molecules, Milan, Italy, April 23-24, 2018
88. Fractionation pretreatment of Beechwood sawdust via a hybrid organosolv/steam explosion process, K.G. Kalogiannis, L. Matsakas, P. Christakopoulos, U. Rova, James W. Aspden and A.A. Lappas, COST Action Fourth Workshop & Fifth MC Meeting, Thessaloniki, Greece, 12-14 March 2018
89. Lignin upgrading via pyrolysis – A study of the upstream delignification process effect, K.G. Kalogiannis, L. Matsakas, P. Christakopoulos, U. Rova and A.A. Lappas, COST Action Fourth Workshop & Fifth MC Meeting, Thessaloniki, Greece, 12-14 March 2018
90. Production of cellulosic ethanol from acetone/water oxidized corn stover at high solids content, K. Katsimpouras, G. Dedes, P. Bistis, K.G. Kalogiannis, Evangelos Topakas, COST Action Fourth Workshop & Fifth MC Meeting, Thessaloniki, Greece, 12-14 March 2018
91. Techno-economic and environmental assessment of organosolv lignin-derived platform chemicals and polymers, D. Ipsakis, S. Stephanidis, K. Kalogiannis, L. Matsakas, U. Rova, P. Christakopoulos, A. Lappas, K. Triantafyllidis, E. Heracleous, COST Action Fourth Workshop & Fifth MC Meeting, Thessaloniki, Greece, 12-14 March 2018
92. Hydrolysis of pretreated-lignocellulosic biomass via homogeneous and heterogeneous acid catalysis, Marianou A., Michailof C., Iliopoulou E., Kalogiannis K.,

Triantafyllidis K., Lappas A., COST Action Fourth Workshop & Fifth MC Meeting, Thessaloniki, Greece, 12-14 March 2018

93. Olive mill wastewater: From a pollutant to green fuel and other bio-products, E.F. Iliopoulou, C. Michailof, K. Kalogiannis, A.A. Lappas, 4th INTERNATIONAL CONGRESS ON CATALYSIS FOR BIOREFINERIES, Lyon, France, 11-15 December 2017

94. Ex-situ biomass catalytic pyrolysis to high quality bio-oil in pilot scale over novel ZSM-5 based nano-catalysts, E. Heracleous, K. Kalogiannis, A.A. Lappas, 10th World congress of chemical engineering, Barcelona, Spain, 1-5 October, 2017

95. Catalyst deactivation in in-situ and ex-situ biomass catalytic pyrolysis, K.G. Kalogiannis, S.D. Stephanidis, A.A. Lappas, 10th World congress of chemical engineering, Barcelona, Spain, 1-5 October, 2017

96. Organosolv biomass fractionation – A technoeconomical analysis, K.G. Kalogiannis, A. Kalogianni, C. Michailof, A. Marianou and A.A. Lappas, 10th World congress of chemical engineering, Barcelona, Spain, 1-5 October, 2017

97. Lappas A.A, Iatridis D.K., Kalogiannis K.G., Kopalidou E.P, Vasalos I.A., (2016) "Application of Circulating fluidized bed reactors for producing clean fossil fuels and biofuels", Foundation and Vistas of Chemical Reaction Engineering (ISCRE 24) Mineapolis Minnesota, USA, June 12-15

98. Application of hierarchical bi-functional ZSM5 based catalysts to catalytic pyrolysis of biomass, E. Kantarelis, R. Javed, S. Stefanidis, E. Pachatouridou, A. Psarras, K. Kalogiannis, E. Iliopoulou, A. Lappas, 3rd International Symposium on Catalysis for Clean Energy and Sustainable Chemistry, Madrid, Spain, September 7, 2016

99. Lignocellulosic biomass fractionation and depolymerization employing organic solvents and heterogeneous catalysis for the future biorefinery, Konstantinos G. Kalogiannis, Asimina Marianou, Chrysa Michailof, Aggeliki Kalogianni, Stylianos D. Stefanidis and Angelos A. Lappas, Cascatbel Workshop - Thermochemical Lignocellulose Conversion Technologies, Porto Carras, Greece, May 18-20, 2016

100. Biomass fractionation through wet oxidation, K.G. Kalogiannis, A. Kalogianni, C. Michailof, M. Marianou, E. Topakas and A. A. Lappas, COST Action Second Workshop & Third MC Meeting, Dubrovnik, Croatia, 4-6 April 2016

101. Fermentation of wet oxidized beech wood to bioethanol at high solids content, Katsimpouras C., Kalogiannis K. G., Lappas A.A., Christakopoulos P. and Topakas E., COST Action Second Workshop & Third MC Meeting, Dubrovnik, Croatia, 4-6 April 2016

102. Isomerization of glucose into fructose over homogeneous and heterogeneous catalysts, Marianou A., Michailof C., Pineda A., Kalogiannis K., Triantafyllidis K., Lappas A., COST Action Second Workshop & Third MC Meeting, Dubrovnik, Croatia, 4-6 April 2016

103. Residual lignin as a precursor for Activated Carbon synthesis, Michailof C. M., Kalogiannis K. G., Marianou A.A., Lappas A.A., COST Action Second Workshop & Third MC Meeting, Dubrovnik, Croatia, 4-6 April 2016

104. Overview of the conventional and advanced analytical methods for decoding the bio-oil's composition, C. M. Michailof, K. G. Kalogiannis, T. Sfetsas, D. T. Patiaka and A. A. Lappas, Cascatbel Workshop - Thermochemical Lignocellulose Conversion Technologies, Porto Carras, Greece, May 18-20, 2016

105. Castor bean cake upgrading via thermal and catalytic pyrolysis, Konstantinos Kalogiannis, Stylianos Stefanidis, Eleni Iliopoulou, Chrysoula Michailof and A. Lappas, Biorefinery I: Chemicals and Materials From Thermo-Chemical Biomass Conversion and Related Processes, Chania, Greece, September 27-October 2, 2015

106. Valorisation of lignocellulosic forestry and agricultural residues via organic solvents and hydrothermal heterogeneous catalysis, K. G. Kalogiannis, A. Kalogianni, A. Marianou, S. Stefanidis, C. Michailof, Triantafyllidis and A. Lappas, COST Action FP1306 "Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies" Belgrade, Serbia, February 2-5, 2015
107. Upgraded biooil production via castor bean cake pyrolysis, K. G. Kalogiannis, S. D. Stefanidis, C. Michailof and A.A. Lappas, ECI Biorefinery-I Novel Methods for Integrated Exploitation of Agricultural by-products, Thessaloniki, Greece, November 16-18, 2015
108. Production of Transportation Fuels Through Biomass Catalytic Pyrolysis and HydroDeoxygenation of the Produced Catalytic Pyrolysis Oil, A.A. Lappas, I.A. Vasalos, K. Kalogiannis, S. Gust, M. Lindblad, C. Fougret, E. Jordan, tcbiomass 2015, Chicago USA, 2-5 November 2015
109. Quantitative and qualitative analysis of thermal and catalytic bio-oils by comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry (GCxGC-ToFMS), C. Michailof, T. Sfetsas, K. Kalogiannis, S. Stefanidis, E. Iliopoulou, A. Lappas, COST Action FP1306 "Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies" Belgrade, Serbia, February 2-5, 2015
110. Extraction of the phenolic fraction of thermal bio-oils and characterization with two-dimensional gas chromatography with time-of-flight mass spectrometry, C. Michailof, T. Sfetsas, K. Kalogiannis, S. Stefanidis, E. Iliopoulou, A. Lappas, COST Action FP1306 "Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies" Belgrade, Serbia, February 2-5, 2015
111. Catalytic conversion of glucose to HMF over solid catalysts, C. Michailof, A. Marianou, K. Kalogiannis, E. Iliopoulou, A. Pineda, K. Triantafyllidis, A. Lappas, 3rd International Symposium on Green Chemistry, La Rochelle, France, May 3-7, 2015
112. CATALYTIC CONVERSION OF SYRINGOL, CATECHOL AND 4-METHYLCATECHOL OVER A ZSM-5 ZEOLITE, Stefanidis S.D., Kalogiannis K.G., Iliopoulou E.F., Triantafyllidis K.S., Pilavachi P.A., Lappas A.A., Third International Conference CATALYSIS FOR RENEWABLE SOURCES: FUEL, ENERGY, CHEMICALS, Catania, Sicily, Italy, September 6-11, 2015
113. A study on the catalytic pyrolysis of biomass through the pyrolysis of cellulose, hemicellulose and lignin, S.D. Stefanidis, K.G. Kalogiannis, E.F. Iliopoulou, A.A. Lappas, CAMURE, Valpré, Lyon-France, December 7-10, 2014
114. Lignocellulosic biomass fractionation in multiphase catalytic reactors as a pretreatment step for production of fuels and green chemicals, K.G. Kalogiannis, A. Marianou, C. Michailof, S. Stefanidis, A. Kalogianni and A. Lappas, CAMURE, Valpré, Lyon-France, December 7-10, 2014
115. Catalytic pyrolysis of biomass using fresh and modified natural basic magnesium oxide catalysts, Stylianos D. Stefanidis, Stamatia A. Karakoulia, Konstantinos G. Kalogiannis, Eleni F. Iliopoulou, Kostas S. Triantafyllidis, Angelos A. Lappas, Catalysis of Biomass Summer School, June 8-11, 2014, Liblice, Czech Republic
116. CONVERSION OF CELLULOSE TO HMF IN POLAR APROTIC SOLVENTS, A. Marianou, C. Michailof, E. Iliopoulou, K. Kalogiannis, K. Triantafyllidis, A. Lappas, Catalysis of Biomass Summer School, June 8-11, 2014, Liblice, Czech Republic
117. Catalytic pyrolysis of biomass using fresh and modified natural basic MgO catalysts, S.D. Stefanidis, K.G. Kalogiannis, S.A. Karakoulia, E.H. Iliopoulou, K.S. Triantafyllidis, A.A.

Lappas, Pyro 2014 – 20th International Symposium on Analytical and Applied Pyrolysis, May 19-23, 2014, Birmingham, UK

118. Catalytic conversion of syringol, catechol and 4-methylcatechol over a ZSM-5 zeolite, Stefanidis SD, Kalogiannis KG, Iliopoulou EF, Triantafyllidis KS, Pilavachi PA, Lappas AA, Pyro 2014 – 20th International Symposium on Analytical and Applied Pyrolysis, May 19-13, 2014, Birmingham, UK

119. Catalytic fast pyrolysis of lignocellulosic biomass using natural MgO materials, S.Stefanidis, S. Karakoulia, K. Kalogiannis, H. Yiannoulakis, T. Zampetakis, A. Lappas, K. Triantafyllidis, EuropaCat-XI, September 1-6, 2013, Lyon, France

120. Lignin Upgrading via Catalytic Pyrolysis on Pilot scale, K. G. Kalogiannis, S. D. Stefanidis, A. A. Lappas, AFORE Workshop, 28 August, 2013, Helsinki, Finland

121. Production of high value chemicals and biofuels by catalytic pyrolysis of biomass/lignin mixtures, K. G. Kalogiannis, S. D. Stefanidis, A. A. Lappas, Second International Conference: Catalysis for Renewable Sources: Fuel, Energy, Chemicals, July 22-28, 2013, Lund, Sweden

122. Effect of Si/Al ratio on the Preparation and Use of Mesoporous ZSM-5 Zeolites as Catalysts in Biomass Pyrolysis, Eleni F. Iliopoulou, Antonio Pineda, Stelios Stefanidis, Kostas Kalogiannis and Angelos A. Lappas, 23rd North American Catalysis Society Meeting, Louisville, Kentucky, USA, June 2-7, 2013

123. Effect of surface, morphological and textural properties of natural MgO catalysts on biomass fast pyrolysis products, K.G. Kalogiannis, S. Stefanidis, S.A. Karakoulia, H. Yiannoulakis, T. Zampetakis, A.A. Lappas, K.S. Triantafyllidis, RomCat, May 29-31, 2013, Cluj-Napoca, Romania

124. Production of an Advanced Bioenergy Carrier (Bio-oil) from Biomass Catalytic Pyrolysis. Effect of Catalyst Deactivation on Bio-oil Yield and Quality, K. G. Kalogiannis, A. A. Lappas, Third International Conference on Thermochemical Biomass Conversion Science, Chicago, USA, September 3-6, 2013

125. INCREASING PHENOLS AND AROMATICS FORMATION IN BIOMASS FAST PYROLYSIS BY USING MICROPOROUS ZEOLITIC AND MESOPOROUS ALUMINOSILICATE CATALYSTS, K. S. Triantafyllidis, S.A. Karakoulia, K.G. Kalogiannis, E.F. Iliopoulou, A.A. Lappas, 9th International Conference on Renewable Resources and Biorefineries, Antwerp, Belgium, June 5 - 7, 2013

126. Downstream valorization of acid hydrolysis residues via thermal and catalytic pyrolysis, K.G. Kalogiannis, S.D. Stefanidis, C. Michailof, A.A. Lappas, Bio4SuD - Biofuels for Sustainable Development of Southern Europe, Thessaloniki, Greece, 19-20 November, 2012

127. Catalytic fast pyrolysis of lignocellulosic biomass using natural MgO materials, Stylianos D. Stefanidis, Stamatia A. Karakoulia, Konstantinos G. Kalogiannis, Angelos A. Lappas, Kostas S. Triantafyllidis, COST Action CM0903 (UBIOCHEM), 3rd Workshop, Thessaloniki (Greece), 1-3 November, 2012

128. Biomass catalytic pyrolysis over mesoporous ZSM-5 zeolites, Antonio Pineda, Rafael Luque, Stelios Stefanidis, Kostas Kalogiannis, Angelos A. Lappas and Eleni F. Iliopoulou, COST Action CM0903 (UBIOCHEM), 3rd Workshop, Thessaloniki (Greece), 1-3 November, 2012

129. Effect of textural and surface properties of natural MgO materials on the products from the pyrolysis of lignocellulosic biomass, Konstantinos S. Triantafyllidis, Stylianos D. Stefanidis, Stamatia A. Karakoulia, Konstantinos G. Kalogiannis, Angelos A. Lappas, COST Action CM0903 (UBIOCHEM), 3rd Workshop, Thessaloniki (Greece), 1-3 November, 2012

130. Effect of acidity, crystal size and micro/mesoporosity of MFI zeolitic catalysts on biomass pyrolysis oil composition, K.S. Triantafyllidis, S.D. Stefanidis, S.A. Karakoulia, K.G. Kalogiannis, E.F. Iliopoulou, A.A. Lappas, T.J. Pinnavaia, COST Action CM0903 (UBIOCHEM), 3rd Workshop, Thessaloniki (Greece), 1-3 November, 2012
131. Reaction pathways during thermal and catalytic pyrolysis of lignocellulosic biomass, Stylianos D. Stefanidis, Chrysa M. Michailof, Konstantinos G. Kalogiannis, Eleni F. Iliopoulou, Petros A. Pilavachi, Angelos A. Lappas, CAT4BIO – Advances in catalysis for biomass valorization, Thessaloniki, Greece, July 8-11, 2012
132. Production of upgraded bio-oils from miscanthus acid hydrolysis residues by catalytic pyrolysis – Effect of feed and acid hydrolysis conditions, K.G. Kalogiannis, S.D. Stephanidis, C. Michailof, A.A. Lappas, CAT4BIO – Advances in catalysis for biomass valorization, Thessaloniki, Greece, July 8-11, 2012
133. QUALITATIVE AND QUANTITATIVE ANALYSIS OF THERMAL AND CATALYTIC BIO-OILS BY MEANS OF GCxGC-ToFMS, C. Michailof, T. Sfetsas, S. Stefanidis, K. Kalogiannis, A. Lappas, CAT4BIO – Advances in catalysis for biomass valorization, Thessaloniki, Greece, July 8-11, 2012
134. Lignin Upgrading through Catalytic Pyrolysis for the Production of Bio-phenols and Bio-aromatics, Kostas G. Kalogiannis, Stylianos D. Stephanidis, Eleni F. Iliopoulou, Michael Stöcker, L. Hannevold and Angelos A. Lappas, CAT4BIO – Advances in catalysis for biomass valorization, Thessaloniki, Greece, July 8-11, 2012
135. Catalytic upgrading of biomass pyrolysis vapours using transition metal-modified ZSM-5 zeolite, Eleni F. Iliopoulou, Stelios Stefanidis, Kostas Kalogiannis, Angelos A. Lappas and Kostas S. Triantafyllidis, EuropaCat X: "Catalysis across the disciplines", Glasgow, 28 Aug - 2 Sep 2011
136. The role of catalyst's micro/mesoporosity and acidity in the upgrading of lignocellulosic biomass flash pyrolysis vapours, Stylianos Stefanidis, Eleni F. Iliopoulou, Kostas Kalogiannis, Angelos A. Lappas, and Kostas S. Triantafyllidis, 22nd North American Catalysis Society Meeting, Detroit, June 5-10, 2011
137. Catalytic pyrolysis of biomass using transition metal-based catalysts: Effect of metal type, loading and oxidation state, Eleni F. Iliopoulou, Stelios Stefanidis, Kostas Kalogiannis, Angelos Lappas
138. COST Action D36 Final Workshop-International Conference on Structure Performance, Relationships in Functional Materials: Catalysis, Electrochemistry and Surfactants, Fuengirola, Malaga, Spain, May 17-20, 2011, Catalytic Upgrading of Biomass Pyrolysis Vapours, Using Transition Metal-Modified ZSM-5 Zeolite. Iliopoulou, E.F., Stefanidis, S., Kalogiannis, K., Lappas A.A., Triantafyllidis, K.S.
139. Catalytic Pyrolysis of Lignin for the production of high added value chemicals and fuels, K. Kalogiannis, S. Stephanidis, A.A. Lappas, M. Stöcker, L. Hannevold, Aud I. Spjelkavik, F. Öhman, Nordic Wood Biorefinery Conference, Stockholm, 22-24 March 2011
140. Catalytic Pyrolysis of Lignin for the production of high added value chemicals and fuels, Stöcker, M.; Kalogiannis, K.; Stefanidis, S.; Lappas, A. A.; Hannevold, L.; Spjelkavik, A.i.; Öhman, F., FEZA, Valencia, Spain, 3-7 July, 2011
141. Catalytic Pyrolysis of Lignin for the production of high added value chemicals and fuels, K. Kalogiannis, S. Stephanidis, A.A. Lappas, M. Stöcker, L. Hannevold, Aud I. Spjelkavik, F. Öhman, AF0RE local workshop, 24 March, 2011, Stockholm

142. Tomorrow's biofuel: bio-gasoline production in FCC unit, N. Thegarid, G. Fogassy, Y. Schuurman, C. Mirodatos, S. Stefanidis, E. F. Iliopoulou, K. G. Kalogiannis, A. A. Lappas, 8th ECCE, 25-29 September 2011, Berlin, Germany
143. Catalytic pyrolysis of Hydrothermally pretreated Lignocellulosic biomass, S.D. Stephanidis, C. Nitsos, K. Kalogiannis, E. Iliopoulou, A. Lappas, K Triantaphillidis, Cost Action CM0903 (UBIOCHEM) 1st Workshop, Cordoba, Spain, 13 – 15 May 2010
144. Biomass catalytic pyrolysis for the production of bio-fuels and chemical, Stelios D. Stephanidis, Kostas G. Kalogiannis, Angelos A. Lappas, Petros A. Pilavachi, Catalysis Lectures for Environmental Applications and Renewables, Porto Carras, Greece, 24-29 May 2009

National conferences with proceedings (>2 pages)

1. Ανάπτυξη καταλυτικής οργανολυτικής οξείδωσης με στερεούς καταλύτες για την κλασμάτωση αγροτικών υπολειμμάτων, Σ.Δ. Στεφανίδης, Μ. Καρακούλια, Κ. Γκίνης, Κ.Γ. Καλογιάννης και Α.Α. Λάππας, 16ο Πανελλήνιο Συμπόσιο Κατάλυσης, Χανιά, 20 - 22 Οκτωβρίου 2022
2. ΚΑΤΑΛΥΤΙΚΗ ΟΡΓΑΝΟΛΥΤΙΚΗ ΟΞΕΙΔΩΣΗ ΓΙΑ ΤΗΝ ΚΛΑΣΜΑΤΩΣΗ ΑΧΥΡΟΥ ΣΙΤΟΥ ΠΡΟΣ ΕΝΖΥΜΙΚΗ ΚΑΙ ΜΙΚΡΟΒΙΑΚΗ ΜΕΤΑΤΡΟΠΗ ΣΕ ΒΙΟΛΕΙΤΟΥΡΓΙΚΑ ΣΥΣΤΑΤΙΚΑ ΤΡΟΦΙΜΩΝ, Σ. Στεφανίδης, Κ. Καλογιάννης, Σ. Καρακούλια, Σ. Στάικος, Α. Καρναούρη, Ε. Τόπακας, Α. Λάππας, 13ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Πάτρα, 2 - 4 Ιουνίου 2022
3. Ανάπτυξη καταλυτικής οργανολυτικής οξείδωσης με στερεούς καταλύτες για την κλασμάτωση αγροτικών υπολειμμάτων, Σ.Δ. Στεφανίδης, Μ. Καρακούλια, Μ. Μαριανού, Κ.Γ. Καλογιάννης και Α.Α. Λάππας, 16ο Πανελλήνιο Συμπόσιο Κατάλυσης, Χανιά, 20-22 Οκτωβρίου 2022
4. ΠΑΡΑΓΩΓΗ ΩΜΕΓΑ-3 ΛΙΠΑΡΩΝ ΟΞΕΩΝ ΑΠΟ ΕΤΕΡΟΤΡΟΦΑ ΣΥΣΤΗΜΑΤΑ ΜΙΚΡΟΦΥΚΩΝ ΧΡΗΣΙΜΟΠΟΙΩΝΤΑΣ ΩΣ ΥΠΟΣΤΡΩΜΑ ΣΑΚΧΑΡΑ ΛΙΓΝΙΝΟΚΥΤΤΑΡΙΝΟΥΧΟΥ ΒΙΟΜΑΖΑΣ, Α. Καρναούρη, Π. Κωστόπουλος, Α. Χαλιμά, Κ. Καλογιάννης, Α. Λάππας, Ε. Τόπακας, 12 ΠΕΣΧΜ, Αθήνα, 29-31 Μαΐου, 2019
5. ΟΡΓΑΝΟΛΥΤΙΚΗ (ORGANOSOLV) ΚΛΑΣΜΑΤΩΣΗ ΛΙΓΝΟΚΥΤΤΑΡΙΝΟΥΧΟΥ ΒΙΟΜΑΖΑΣ ΓΙΑ ΠΑΡΑΓΩΓΗ ΒΙΟΛΕΙΤΟΥΡΓΙΚΩΝ ΣΥΜΠΛΗΡΩΜΑΤΩΝ ΔΙΑΤΡΟΦΗΣ, Κ. Καλογιάννης, Α. Καρναούρη, Ε. Τόπακας, Χ. Μιχαήλωφ, Α. Λάππας, 12 ΠΕΣΧΜ, Αθήνα, 29-31 Μαΐου, 2019
6. Bioconversion of cotton stalks to bioethanol: effect of the pretreatment, Konstantinos Dimos, Despoina Chilari, Georgia Georgoula, Thomas Paschos, Diomi Mamma, Argiro Louloudi, **Konstantinos Kalogiannis**, Angelos Lappas, Nikolaos Papayannakos, Dimitris Kekos, 11 ΠΕΣΧΜ, Θεσσαλονίκη, 25-27 Μαΐου, 2017
7. Ανάπτυξη διεργασίας κλασματοποίησης βιομάζας στα συστατικά της μέρης – Τεχνοοικονομική μελέτη, **Κ. Καλογιάννης**, Α. Καλογιάννη, Χ. Μιχαήλωφ, Α. Μαριανού, Α. Λάππας, 11 ΠΕΣΧΜ, Θεσσαλονίκη, 25-27 Μαΐου, 2017
8. Ανάπτυξη κινητικού μοντέλου καταλυτικής πυρόλυσης βιομάζας, Δ. Ιψάκης, Ε. Ηρακλέους, Κ. Γκίνης, Σ. Στεφανίδης, **Κ. Καλογιάννης**, Α.Α. Λάππας, 11 ΠΕΣΧΜ, Θεσσαλονίκη, 25-27 Μαΐου, 2017
9. Απομάκρυνση ανόργανων συστατικών βιομάζας για τη μεγιστοποίηση της παραγωγής βιοελαίου από τη ταχεία πυρόλυση, Σ. Στεφανίδης, Ε. Ηρακλέους, Δ. Πατιάκα, **Κ. Καλογιάννης**, Α. Λάππας, 10^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Πάτρα, 4-6 Ιουνίου 2015
10. Πυρόλυση Γεωργικών και Δασικών Αποβλήτων για τη Παραγωγή Καυσίμων και Χημικών Προϊόντων, Στυλιανός Δ. Στεφανίδης, Πέτρος Α. Πηλαβάκης, **Κωνσταντίνος Γ. Καλογιάννης**, Άγγελος Α. Λάππας, Διαχείριση/Ενεργειακή Εκμετάλλευση Αποβλήτων στην Ελλάδα, Ακαδημία Αθηνών, 3 Οκτωβρίου 2014
11. Καταλύτες μαγνησίου προερχόμενοι από φυσικές πηγές και εφαρμογή τους στην καταλυτική πυρόλυση λιγνοκυτταρινούχας βιομάζας, Σ. Καρακούλια, Σ. Στεφανίδης, **Κ. Καλογιάννης**, Α. Λάππας, Κ. Τριανταφυλλίδης, 13^ο Πανελλήνιο Συμπόσιο Κατάλυσης, Παλαιός Άγιος Αθανάσιος Πέλλας, 16-18 Οκτωβρίου 2014
12. Μελέτη προκατεργασίας αγροτικών παραπροϊόντων προς παραγωγή βιοιθανόλης και χημικών υψηλής προστιθέμενης αξίας, **Κ. Καλογιάννης**, Σ. Στεφανίδης, Α. Καλογιάννη, Α. Μαριανού, Χ.

Μιχαήλωφ, Ε. Ηλιοπούλου, Α. Λάμπας, 13^ο Πανελλήνιο Συμπόσιο Κατάλυσης, Παλαιός Άγιος Αθανάσιος Πέλλας, 16-18 Οκτωβρίου 2014

13. Καταλυτική ταχεία πυρόλυση λιγνοκυτταρινούχας βιομάζας με καταλύτες μικτών οξειδίων από φυλλόμορφα διπλά υδροξείδια (LDH), *Στεφανίδης Σ., Καρακούλια Σ., Καλογιάννης Κ., Λάμπας Α., Τριανταφυλλίδης Κ.*, 5ο Περιβαλλοντικό Συνέδριο Μακεδονίας, 14-16 Μαρτίου 2014, Θεσσαλονίκη, Ελλάδα

14. Αξιοποίηση αγροτικών παραπροϊόντων προς παραγωγή βιοκαυσίμων και βιοχημικών με τη διεργασία της καταλυτικής πυρόλυσης, *Καλογιάννης Κ., Στεφανίδης Σ., Λάμπας Α., Διημερίδα “Καινοτόμες μέθοδοι για ολοκληρωμένη αξιοποίηση των υπολειμμάτων από την επεξεργασία αγροτικών προϊόντων”, 19-20 Νοεμβρίου 2013, Θεσσαλονίκη, Ελλάδα*

15. Μελέτη των φυσικοχημικών χαρακτηριστικών καταλυτών μαγνησίας φυσικής προέλευσης και εφαρμογή τους στην καταλυτική πυρόλυση λιγνοκυτταρινούχας βιομάζας, *Σ. Καρακούλια, Σ. Στεφανίδης, Κ. Καλογιάννης, Χ. Γιαννουλάκης, Θ. Ζαμπετάκης, Α. Λάμπας, Κ. Τριανταφυλλίδης*, 6^ο Πανελλήνιο Συμπόσιο Πορωδών Υλικών, Καβάλα, Ελλάδα, 9-10 Σεπτεμβρίου, 2013

16. Μηχανισμοί αντιδράσεων κατά τη θερμική και καταλυτική πυρόλυση λιγνοκυτταρινούχας βιομάζας, *Σ. Στεφανίδης, Κ. Καλογιάννης, Ε. Ηλιοπούλου, Α. Λάμπας, Π. Πηλαβάκης*, 9ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Αθήνα, Ελλάδα, 23-25 Μαΐου, 2013

17. Παραγωγή αναβαθμισμένου βιοελαίου με την χρήση φυσικής μαγνησίας (MgO) ως καταλύτη ήπιας πυρόλυσης βιομάζας, *Σ. Στεφανίδης, Σ. Καρακούλια, Κ. Καλογιάννης, Ε. Ηλιοπούλου, Άγγελος Λάμπας, Κ. Τριανταφυλλίδης*, 9ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Αθήνα, Ελλάδα, 23-25 Μαΐου, 2013

18. Καταλυτική πυρόλυση βιομάζας με χρήση νέων καταλυτών κοβαλτίου σε εργαστηριακή και πιλοτική κλίμακα, *Σ. Στεφανίδης, Κ. Καλογιάννης, Ε. Ηλιοπούλου, Ά. Λάμπας*, 9ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Αθήνα, Ελλάδα, 23-25 Μαΐου, 2013

19. Θερμική και καταλυτική πυρόλυση λιγνίνης για τη παραγωγή ανανεώσιμων χημικών και καυσίμων, *Κ. Καλογιάννης, Σ. Στεφανίδης, Άγγελος Λάμπας*, 9ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Αθήνα, Ελλάδα, 23-25 Μαΐου, 2013

20. Τροποποιημένοι μεσοπορώδεις ζεόλιθοι Μορντενίτη (Mordenite) και χρήση τους στη διεργασία καταλυτικής πυρόλυσης βιομάζας, *Ελένη Φ. Ηλιοπούλου, Στέλιος Στεφανίδης, Κώστας Καλογιάννης, Άγγελος Α. Λάμπας, J. Martinez, M.T. Navarro, A. Chica, F. Rey*, 12ο Πανελλήνιο Συμπόσιο Κατάλυσης, 25-27 Οκτωβρίου 2012, Χανιά

21. Επίδραση των επιφανειακών, μορφολογικών και πορωδών χαρακτηριστικών μαγνησίας (MgO) φυσικής προέλευσης στα προϊόντα πυρόλυσης λιγνοκυτταρινούχας βιομάζας, *Κώστας Καλογιάννης, Στέλιος Στεφανίδης, Σταματία Καρακούλια, Χάρης Γιαννουλάκης, Θ. Ζαμπετάκης, Ελένη Ηλιοπούλου, Χρήστος Νίτσος, Κώστας Τριανταφυλλίδης, Άγγελος Λάμπας*, 12ο Πανελλήνιο Συμπόσιο Κατάλυσης, 25-27 Οκτωβρίου 2012, Χανιά

22. Χρήση βασικών υλικών (MgO) φυσικής προέλευσης ως καταλυτών στην πυρόλυση βιομάζας, *Σ. Στεφανίδης, Κ. Καλογιάννης, Ε. Ηλιοπούλου, Χ. Γιαννουλάκης, Θ. Ζαμπετάκης, Κ. Τριανταφυλλίδης, Α. Λάμπας*, 21ο Πανελλήνιο Συνέδριο Χημείας, 9-12 Δεκεμβρίου 2011, Θεσσαλονίκη

23. Ποιοτικός και ποσοτικός χαρακτηρισμός βιοελαίων με πολυδιάστατη αέρια χρωματογραφία συνδυασμένη με φασματοσκοπία μαζών χρόνου πτήσεως ιόντων, *Χρύσα Μιχαήλωφ, Θεμιστοκλής Σφέτσας, Στυλιανός Στεφανίδης, Κωνσταντίνος Καλογιάννης, Γεώργιος Θεοδωρίδης, Άγγελος Λάμπας*, 21ο Πανελλήνιο Συνέδριο Χημείας, 9-12 Δεκεμβρίου 2011, Θεσσαλονίκη

24. Παραγωγή βιοκαυσίμων και χημικών προϊόντων σε πιλοτική μονάδα καταλυτικής πυρόλυσης βιομάζας, *Κ.Γ. Καλογιάννης, Α.Α. Λάμπας, Σ.Δ. Στεφανίδης, Χ. Μιχαήλωφ*, 8ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη, 26-28 Μαΐου 2011

25. Ταχεία πυρόλυση λιγνίνης για τη παραγωγή χημικών και καυσίμων, *Στυλιανός Δ. Στεφανίδης, Κωνσταντίνος Γ. Καλογιάννης, Χρύσα Μ. Μιχαήλωφ, Θεμιστοκλής Δ. Σφέτσας, Άγγελος Λάμπας, Πέτρος Α. Πηλαβάκης*, 8ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη, 26-28 Μαΐου 2011

26. Μελέτη ταχείας πυρόλυσης λιγνίνης, κυτταρίνης και ημικυτταρίνης από λιγνοκυτταρινούχα βιομάζα, *Στυλιανός Στεφανίδης, Κωνσταντίνος Καλογιάννης, Άγγελος Λάμπας, Πέτρος Πηλαβάκης*, 4ο Περιβαλλοντικό Συνέδριο Μακεδονίας, Θεσσαλονίκη, 18-20 Μαρτίου 2011
27. In situ καταλυτική πυρόλυση βιομάζας με χρήση εμπορικών και νέων καταλυτών σε εργαστηριακή κλίμακα, *Στυλιανός Στεφανίδης, Κωνσταντίνος Καλογιάννης, Άγγελος Λάμπας και Πέτρος Πηλαβάκης*, 11ο Πανελλήνιο Συμπόσιο Κατάλυσης, Αθήνα, 22-23 Οκτωβρίου 2010
28. Παραγωγή βιοκαυσίμων και χημικών προϊόντων με καταλυτική και μη πυρόλυση βιομάζας σε αντιδραστήρα σταθερής κλίνης, *Κ.Γ. Καλογιάννης, Α.Α. Λάμπας*, 7ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής, Πάτρα, Ελλάδα, 3 – 5 Ιουνίου 2009
29. Production of microparticles with the use of supercritical fluids, *K. Kalogiannis, E. Pavlidou and C. Panayiotou*, XX Panhellenic Solid State Physics and Material Science Conference, Ioannina, Greece, 2004
30. Production of microparticles with the use of supercritical fluids, *K. Kalogiannis, E. Pavlidou and C. Panayiotou*, Proceedings of XIX Panhellenic Solid State Physics and Material Science Conference, Thessaloniki, Greece, 2003, pp.369
31. Production of microparticles of pharmaceutical substances with the use of supercritical CO₂, *K. Kalogiannis, E. Pavlidou and C. Panayiotou*, Proceedings of 4th Panhellenic Chemical Engineering Conference, Patra, Greece, 2003

National conferences with proceedings (<2 pages)

1. Μελέτη της υδρόλυσης της κυτταρίνης με ομογενείς και ετερογενείς Καταλύτες, *Α. Μαριανού, Χ. Μιχαήλωφ, Ε. Ηλιοπούλου, Κ. Καλογιάννης, Σ. Καρακούλια, Κ. Τριανταφυλλίδης, Α. Λάμπας*, 22ο Πανελλήνιο Συνέδριο Χημείας, Θεσσαλονίκη, Ελλάδα, 2-4 Δεκεμβρίου 2016
2. Αξιοποίηση στερεών υπολειμμάτων ελαιουργείων μέσω θερμικής και καταλυτικής πυρόλυσης, *Σ. Στεφανίδης, Κ. Καλογιάννης, Π. Φωκαΐδης, Ε. Ηλιοπούλου, Α. Λάμπας*, 12^ο Συνέδριο Χημείας Ελλάδος Κύπρου, Θεσσαλονίκη, 8-10 Μαΐου 2015
3. Μελέτη της επίδρασης ομογενών και ετερογενών καταλυτών στην αντίδραση ισομερίωσης της γλυκόζης προς φρουκτόζη, *Μαριανού Α., Μιχαήλωφ Χ., Ηλιοπούλου Ε., Καλογιάννης Κ., Τριανταφυλλίδης Κ., Pineda A., Λάμπας Α.*, 12ο Συνέδριο Χημείας Ελλάδας-Κύπρου, Ελλάδα, Θεσσαλονίκη, Μάιος 2015
4. Καταλυτική πυρόλυση βιομάζας με βασικούς καταλύτες MgO προς παραγωγή καυσίμων και χημικών προϊόντων, *Σ. Στεφανίδης, Κ. Καλογιάννης, Σ. Καρακούλια, Ε. Ηλιοπούλου, Κ. Τριανταφυλλίδης, Α. Λάμπας*, Αξιοποίηση ελληνικών φυσικών πετρωμάτων για την ανάπτυξη νανοδομημένων καταλυτικών υλικών με ενεργειακές και περιβαλλοντικές εφαρμογές, 17 Ιανουαρίου 2014, Θεσσαλονίκη, Ελλάδα
5. Αξιοποίηση αγροτικών παραπροϊόντων προς παραγωγή βιοκαυσίμων και βιοχημικών με τη διεργασία της καταλυτικής πυρόλυσης, *Καλογιάννης Κ., Στεφανίδης Σ., Λάμπας Α.*, Διημερίδα “Καινοτόμες μέθοδοι για ολοκληρωμένη αξιοποίηση των υπολειμμάτων από την επεξεργασία αγροτικών προϊόντων”, 19-20 Νοεμβρίου 2013, Θεσσαλονίκη, Ελλάδα
6. Παραγωγή βιοκαυσίμων και χημικών προϊόντων με καταλυτική και μη πυρόλυση βιομάζας σε αντιδραστήρα σταθερής κλίνης, *Κ.Γ. Καλογιάννης, Α.Α. Λάμπας*, 7ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής, Πάτρα, Ελλάδα, 3 – 5 Ιουνίου 2009