

CURRICULUM VITAE



Name: **Douvartzides L. Savvas**
Date of birth: **September 3rd 1973**
Place of birth: **Kozani - Greece**
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CURRENT POSITION

2019 - today: Assistant Professor

Department of Mechanical Engineering
University of Western Macedonia, Kozani - Greece

6/5/2014 - 2019: Assistant Professor

Department of Mechanical Engineering and Industrial Design.
Western Macedonia University of Applied Sciences, Kozani - Greece

PREVIOUS POSITIONS

2005-2011: Lecturer

Department of Mechanical Engineering
Western Macedonia University of Applied Sciences, Kozani - Greece

2005 – 2006: Post-doctoral Researcher

on “Design, manufacture and characterization of electrocatalysts for direct ethanol fuel cells”
Department of Mechanical Engineering
University of Thessalia, Volos - Greece

1997 – 2004: Ph.D Candidate

on “Ethanol Utilization for Generation of Electricity in Solid Oxide Fuel Cells”
Laboratory of Advanced Energy Conversion Systems
Department of Mechanical Engineering
University of Thessalia, Volos - Greece

STUDIES

19/2/2004: PhD in Mechanical Engineering

University of Thessalia, Department of Mechanical Engineering, Volos - Greece
Title of PhD thesis: “Ethanol Utilization for Generation of Electricity in Solid Oxide Fuel Cells”
supervised by Associate Professor P. Tsiakaras

1997: MSc in Mechanical Engineering

University of Thessalia, Department of Mechanical Engineering, Volos - Greece
Title of diploma thesis: “Study on the effect of alloy elements on Laser surface hardening of steels”
supervised by Professor G. Haidemenopoulos
Grade on diploma thesis 10/10
Overall grade: 7.74/10

FOREIGN LANGUAGES

English

2007: ECPE Michigan Proficiency in English

1997: Test of English as a Foreign Language (TOEFL) Grade: 590/660

1989: First Certificate of Cambridge

Italian (learning)

Greek (Mother language)

SCHOLARSHIPS AND GRANTS

1/1/2005 – 31/6/2006: Greek Institute of State Scholarships (IKY)

Scholarship for “**Post-doctorate research in Greece**”,

on “Design, manufacture and characterization of electrocatalysts for direct ethanol fuel cells”

2000: European Union

Grant for the participation on,

Euroconference on New and Renewable Energy Systems”, Madeira-Portugal, 19-24 June/2000

2000: Organization for Ionics, University of Kiel, Germany

Grant for the participation on,

7th Euroconference on Science and Technology of Ionics, Calcatogio-Corsica-France,

October 1-7/2000.

1999: Organization for Ionics, University of Kiel, Germany

Grant for the participation on,

6th Euroconference on Science and Technology of Ionics, Cetraro-Calabria, Italy,

September 12-19/1999

TEACHING EXPERIENCE

2015 - today: Teaching in Postgraduate (M.Sc) Program

Western Macedonia University of Applied Sciences (Kozani – Greece) – Department of Mechanical Engineering and Industrial Design

Teaching in the Postgraduate (M.Sc.) Program "Renewable Energy Sources and Energy Management in Buildings",

- Heat Transfer (39 hour course)
- Mechanical Energy Systems (21 hour course)
- Emerging Renewable Energy Technologies and Energy Storage Systems (39 hour course).

2005 - 2011 and 2014-today: Teaching in Graduate Level

Western Macedonia University of Applied Sciences (Kozani – Greece) – Department of Mechanical Engineering and Industrial Design

Lecturer in

- Internal Combustion Engines I & II
- Steam Boilers and Steam Turbines
- Theoretical and Applied Thermodynamics
- Mechanical Installations in Buildings I & II (Elevators, Natural Gas, Fire Protection, Water Supply, Drainage Systems, Heating)
- Handling of Materials and Lifting Machines

2010_Best Technical Lecturer of the Department according to student evaluation (16 candidates)

2010 Second best Theory Lecturer of the Department according to student evaluation (31 candidates)

1999-2002: Teaching Assistanship

University of Thessalia (Volos – Greece) – Department of Mechanical Engineering

Eight seminar teaching assistantship in

- Thermodynamics
- Advanced Energy Conversion Systems

PROJECTS AND PROGRAMS

2015 - today: Project Leader

Project leader and scientific supervisor of the TEIWM Racing team for the design, construction and competition of Formula Student (FSAE) racing cars.

- July 19-23/2017. Participation at the Formula SAE Italy & Formula Electric Italy 2017 Competition, Ricardo Paletti Circuit, Varano de Melegari, Italy. Car name: DAEDALUS
- July 11-15/2018. Participation at the Formula SAE Italy & Formula Electric Italy 2018 Competition, Ricardo Paletti Circuit, Varano de Melegari, Italy. Car name: DAEDALUS EVO

2019-2022: Participant Researcher

"Integrated management and exploitation of multi-dispersed agricultural residues - application to energy production", Beijing University of Chemical Technology, Beijing United Pioneer Environmental Engineering Co. Ltd., Nanjing Benran Environmental Technology Co., Ltd., Khalifa University of Science and Technology, University of Patras, Sirmet S.A., and Western Macedonia University of Applied Sciences.

Greek-Chinese Bilateral Research and Innovation Cooperation, 2018-2021

2019-2022: Participant Researcher

"Development of new catalysts for efficient de-NO_x abatement of automobile exhaust purification", Sichuan University (China), Sinocat Environmental Technology Co. Ltd., University of Crete, Intergeo Ltd and Western Macedonia University of Applied Sciences.

Greek-Chinese Bilateral Research and Innovation Cooperation, 2018-2021

2019-2020: Project Leader

"Production of renewable Green Diesel through the selective deoxygenation (SDO) of palm oil", Western Macedonia University of Applied Sciences.

2019-2020: Participant Researcher

"A novel process for the efficient and eco-friendly valorization of biogas and CO₂ emissions: Complete conversion to ethylene", TEI of Crete, University of Ioannina, Intergeo Ltd., and Western Macedonia University of Applied Sciences.

2004 – 2005: Program Manager

"Assesment of the enviromental suitability of Pelion hotel enterprices"
Central Greece Planing Co. – Volos, Greece

PUBLICATIONS IN INTERNATIONAL JOURNALS - CITATIONS

J1. Methane Catalytic and Electrocatalytic Combustion over Perovskite Type Oxides Deposited on YSZ, S. Douvartzides, G. Dimoulas and P. Tsiakaras, *Studies in Surface Science and Catalysis*, 119, 93-98, 1998.

Cited by

1. Shi, C., Shao, G.-J., Hu, J., Zhao, B.-L., Lv, Y.-L., Progress in nano-thin films of perovskite-type complex oxides, *Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals*, 18 (10), pp. 1893-1902, 2008
2. Peña M.A., Fierro J.L.G., Chemical structures and performance of perovskite oxides, *Chemical Reviews* 101 (7), pp. 1981-2017 2001
3. C.A. Mims, Methane activation by surface oxygen in calcia-stabilized zirconia, *Catalysis Letters*, 68(3-4), 203-208, 2000

J2. Catalytic Behavior of La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O₃ Perovskite-type Oxide Thin Films Deposited on YSZ During the Reaction of Ethanol Combustion, S. Douvartzides, C. Athanasiou, N. Georgakakis and P. Tsiakaras, *Journal of Ionics*, 4, 157-160, 1999.

J3. Ethanol Utilization in Solid Oxide Fuel Cells: A Thermodynamic Approach, P. Tsiakaras, A. Demin, S. Douvartzides and N. Georgakakis, *Journal of Ionics*, 5, 206-212, 1999.

Cited by

1. Goula M., Kontou S., Zhou W., et al., Hydrogen production over a commercial Pd/Al₂O₃ catalyst for fuel cell utilization, *Ionics*, 9 (3-4), pp. 248-252 2003

J4. High Temperature Electrocatalytic Oxidation of Ethanol over Perovskite-type Oxides, P. Tsiakaras, S. Douvartzides, C. Athanasiou and N. Georgakakis, *Reaction Kinetics and Catalysis Letters*, 71(1), 19-25, 2000.

Cited by

1. Garagounis I., Kyriakou V., Anagnostou C., Bourganis V., Papachristou I., Stoukides M., Solid electrolytes: applications in heterogeneous catalysis and chemical cogeneration, *Industrial and Engineering Chemistry Research*, 50 (2), pp. 431-472, 2011
2. Kirillov S., Tsiakaras P., Romanova I., Adsorption and oxidation of methanol and ethanol on the surface of metallic and ceramic catalysts, *J Mol Struct* 651, pp. 365-370 2003

J5. Catalytic and Electrocatalytic Oxidation of Ethanol over $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ Perovskite-type Catalyst, S. Douvartzides and P. Tsiakaras, *Solid State Ionics*, 136-137, 849-855, 2000.

Cited by

1. Nezhad G.K., and Pashazadeh S., Electrocatalytic oxidation of ethanol at silver chloride/bromide modified carbon paste electrodes, *Portugaliae Electrochimica Acta*, 34(2), 2016
2. Eshani A., Mahjani M.G., Jafarian M., and Naeemy A., Electrosynthesis of polypyrrole composite film and electrocatalytic oxidation of ethanol, *Electrochimica Acta*, 71, pp. 128-133, 2012
3. Romanova I.V., Terikovska T.E., Mischanchuk B.G., Kirillov S.A., Pokrovskiy V.A., Investigations of decomposition of citric zinc oxide precursors by temperature - programmed mass spectrometry, *Chemistry, Physics and Technology of Surface* (in Russian), 3 (2), pp. 166-171, 2012
4. Garagounis, I., Kyriakou, V., Anagnostou, C., Bourganis, V., Papachristou, I., Stoukides, M., Solid electrolytes: Applications in heterogeneous catalysis and chemical cogeneration, *Industrial and Engineering Chemistry Research* 50 (2), pp. 431-472, 2011
5. Galenda, A., Natile, M.M., Nodari, L., Glisenti, A., $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$: Influence of the preparation procedure on reactivity toward methanol and ethanol, *Applied Catalysis B: Environmental* 97 (3-4), pp. 307-322, 2010
6. И.В. Романова, КАТАЛИТИЧЕСКАЯ АКТИВНОСТЬ ОКСИДОВ МЕДИ И ЦЕРИЯ В РЕАКЦИИ ОКИСЛЕНИЯ ЭТАНОЛА, *Хімія, фізика та технологія поверхні*, Т. 1. № 4. С. 436-440, 2010
7. Huang, X., Chen, H., Wu, T., Synthesis, characterization and catalytic properties of $\text{La}_{4-4x}\text{BaCu}_5\text{-xNi}_x\text{O}_{13+\delta}$ ($x=0, 1, 2, 3, 4, 5$), *Advanced Materials Research* 66, pp. 57-60, 2009
8. Athanasiou C., Pekridis G., Kaklidis N., Kalimeri K., Vartzoka S. and Marnellos G., Hydrogen production in Solid Electrolyte Membrane Reactors, (SEMRs), *International Journal of Hydrogen Energy*, 32, 38-54, 2007
9. Cherepanov, V.A., Gavrilova, L.Ya., Aksenova, T.V., Ananyev, M.V., Bucher, E., Caraman, G., Sitte, W., Voronin, V.I., Synthesis, structure and oxygen nonstoichiometry of $\text{La}_{0.4}\text{Sr}_{0.6}\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$, *Progress in Solid State Chemistry* 35 (2-4 SPEC. ISS.), pp. 175-182, 2007
10. A.B. Soares, P.R.N. Da Silva, J.C.C Freitas, C.M.de Almeida, Study of total oxidation of ethanol using the perovskite-type oxides LaBO_3 (B= Mn, Ni, Fe), *Quimica Nova*, 30, (5), 1061-1066, 2007
11. Fu Q., Sun K.-N., Zhang N.-Q., Zhou D.-R., Research progress on A-site deficiency perovskite cathode $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$, *Gongneng Cailiao/Journal of Functional Materials* 37 (SUPPL.), pp. 414-418, 2006
12. Poulidi D., Thursfield A., and Metcalfe I. S., Electrochemical promotion of catalysis controlled by chemical potential difference across a mixed ionic-electronic conducting ceramic membrane – an example of wireless NEMCA, *Topics in Catalysis*, 34(1-4), 2006.
13. Estanfelder M., Hahn T and Lintz H.G., Solid electrolyte potentiometry aided studies of oxidic catalysts, *Catalysis Reviews-Science & Engineering*, 46(1), 1-29, 2004
14. Marnellos G. and Stoukides M., Catalytic studies in electrochemical membrane reactors, *Solid State Ionics*, 175(1-4), 597-603, 2004
15. Kirillov S., Tsiakaras P., Romanova I., Adsorption and oxidation of methanol and ethanol on the surface of metallic and ceramic catalysts, *J Mol Struct* 651, pp. 365-370, 2003

J6. Electrochemical Promotion of Pt during the Oxidation of Ethanol. S. Douvartzides, K. Kyriakopoulos and P. Tsiakaras, *Journal of Ionics*, 7(3), 237-240, 2001.

Cited by

1. Wang R., Wei B., Wang H., Ji S., Key J., Zhang X., Lei Z., An effective electrocatalyst for ethanol oxidation: Pt-modified IrCu alloy nanoparticle, *Journal of Ionics*, 17 (7), pp. 595-601, 2011
2. Kirillov S., Tsiakaras P., Romanova I., Adsorption and oxidation of methanol and ethanol on the surface of metallic and ceramic catalysts, *J Mol Struct* 651, pp. 365-370, 2003

J7. Ethanol and Methane Fueled Solid Oxide Fuel Cells: A Comparative Study. S. Douvartzides, and P. Tsiakaras, *Journal of Ionics*, 7(3), 232-236, 2001.

Cited by

1. Tang Z., Monroe J., Dong J., Nenoff T., Weinkauf D., Platinum-Loaded NaY Zeolite for Aqueous-Phase Reforming of Methanol and Ethanol to Hydrogen, *Industrial and Engineering Chemistry Research*, 48 (5), pp. 2728-2733, 2009
2. Ki-Hun Song, Jun-hyung Ryu, Jong-Sik Chung, Recent Research Trends of Catalytic Conversion of CO₂ to High-value Chemicals, *Korean Chemical Engineering Research*, 47 (5), pp. 519-530, 2009
3. Kirillov S., Tsiakaras P., Romanova I., Adsorption and oxidation of methanol and ethanol on the surface of metallic and ceramic catalysts, *J Mol Struct* 651, pp. 365-370, 2003

J8. Performance of a SOFC Powered with External Ethanol Steam Reforming, S. Douvartzides, and P. Tsiakaras, *Journal of Ionics*, 7, 425-429, 2001.

J9. Thermodynamic and Economic Analysis of a Steam Reformer – Solid Oxide Fuel Cell System Fed by Natural Gas and Ethanol, S. Douvartzides, and P. Tsiakaras, *Energy Sources*, 24(4), 365-373, 2002.

Cited by

1. V De Marco, G Florio, P Fragiaco, Optimal Operation Conditions for a Methane Fuelled SOFC and Microturbine Hybrid System, *Journal of Renewable Energy*, Vol. 2015, Article ID 508138, 2015
2. Pomfret M.B., Steinhurst D.A., Owrytsky J.C., Methanol as an Oxygenated SOFC Fuel: An In-situ Optical Analysis of the Fuel Utilization Chemical Mechanism, *ESC Transactions*, 51(1), 2903-2912, 2013
3. Morgensen D., Grunwaldt J.-D., Hendricksen P.V., Dam-Johansen K., Nielsen J.U., Internal steam reforming in solid oxide fuel cells: Status and opportunities of kinetic studies and their impact on modelling, *Journal of Power Sources*, 196 (1), pp. 25-38, 2011
4. Pomret M.B., Steinhurst D.A., Owrytsky J.C., Thermal Imaging of Solid Oxide Fuel Cell Anode Degradation with Dry and Wet Ethanol Fuel Flows, *ESC Transactions*, 35 (1), pp. 1563-1570, 2011
5. Pomret M.B., Steinhurst D.A., Owrytsky J.C., Methanol and Ethanol Fuels in Solid Oxide Fuel Cells: A Thermal Imaging Study of Carbon Deposition, *Energy & Fuels*, 25 (6), pp. 2633-2642, 2011
6. Offer G.J., Mermelstein J., Brightman E., Brandon N.P., Thermodynamics and Kinetics of the Interaction of Carbon and Sulfur with Solid Oxide fuel Cell Anodes, *Journal of the American Ceramic Society*, 92 (4), pp. 763-780, 2009
7. Song S., Tsiakaras P., Recent progress in direct ethanol proton exchange membrane fuel cells (DE-PEMFCs), *Applied Catalysis B: Environmental*, 63 (3-4), pp. 187-193, 2006
8. Hotz N., Senn S.M., Poulidakos D., Exergy analysis of a solid oxide fuel cell micropowerplant, *Journal of Power Sources*, 158 (1), pp. 333-347, 2006
9. Kirillov S., Tsiakaras P., Romanova I., Adsorption and oxidation of methanol and ethanol on the surface of metallic and ceramic catalysts, *J Mol Struct* 651, pp. 365-370, 2003

J10. The Oxidation of Ethanol over Pt Catalyst-Electrodes Deposited on ZrO₂ (8 mol% Y₂O₃), P. E. Tsiakaras, S. L. Douvartzides, V. A. Sobyenin and A. K. Demin. *Solid State Ionics*, 152-153, 721-726, 2002.

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1. Ishihara T., Non-faradaic electrochemical modification of catalytic activity (NEMCA), *Encyclopedia of Applied Electrochemistry*, Springer, pp. 1375-1380, 2014
2. Stancovski V., Methods for controlling catalytic processes, including the deposition of carbon based particles, *US Patent 8148860*, 2013
3. Stancovski V., Methods and apparatus for controlling catalytic processes, including catalyst regeneration and shoot elimination, *US Patent 8511064*, 2013
4. Silva E.D., Electro-oxidacao do glicerol para producao de Alfa-Hidroxiacidos, Ph.D Thesis, Universidade Federal de Pernambuco, Centro de Tecnologia e Geociencias, Recife/PE, 2013
5. Cloutier R.C., Advanced electrochemical reforming of methanol for hydrogen production, *Ph.D Thesis*, University of British Columbia, Canada, 2011
6. Stancovski V., Suib S.L., Hu B., Methods and apparatus for the synthesis of useful chemicals, *US Patent 7,964,084*, 2011
7. Stancovski V., Methods and apparatus for controlling catalytic processes, including catalyst regeneration and shoot elimination, *US Patent 7,950,221*, 2011
8. Zhao, Y., Yang, X., Zhan, L., Ou, S., Tian, J., High electrocatalytic activity of PtRu nanoparticles supported on starch-functionalized multi-walled carbon nanotubes for ethanol oxidation, *Journal of Materials Chemistry* 21 (12), pp. 4257-4263, 2011

9. Garagounis, I., Kyriakou, V., Anagnostou, C., Bourganis, V., Papachristou, I., Stoukides, M., Solid electrolytes: Applications in heterogeneous catalysis and chemical cogeneration, *Industrial and Engineering Chemistry Research* 50 (2), pp. 431-472, 2011
10. Katsaounis A., Recent developments and trends in the electrochemical promotion of catalysis (EPOC), *Journal of Applied Electrochemistry*, 40(5), 885-902, 2010
11. Wang, E.D., Xu, J.B., Zhao, T.S., Density functional theory studies of the structure sensitivity of ethanol oxidation on palladium surfaces, *Journal of Physical Chemistry C* 114 (23), pp. 10489-10497, 2010
12. Stancovski V., Methods and apparatus for controlling catalytic processes, including the deposition of carbon based particles, *US Patent 12/463,492*, 2009
13. Marnellos G. and Stoukides M., Catalytic studies in electrochemical membrane reactors, *Solid State Ionics*, 175(1-4), 597-603, 2004.

J11. Electrochemically Promoted Catalysis: The case of Ethanol Oxidation over Pt. S. L. Douvartzides and P. E. Tsiakaras. *Journal of Catalysis*, 211(2), 521-529, 2002.

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1. Gunasooriya G.T.K.K., Saeys M., Tuning the activity of supported nanoparticles through charge transfer in "Nanotechnology in Catalysis", Wiley, 2017
2. Fuller A, Novel Perovskite-based electro-catalysts for Oxidative Dehydrogenation (ODH) of Ethane in an Electrochemical Membrane Reactor, PhD Thesis, Ohio State University, USA, 2015
3. Stancovski V., Suib S.L., Hu B., Methods and apparatus for the synthesis of useful chemicals, *US Patent 7,964,084*, 2013
4. Stancovski V., Methods for controlling catalytic processes, including the deposition of carbon based particles, *US Patent 8148860*, 2013
5. Stancovski V., Methods and apparatus for controlling catalytic processes, including catalyst regeneration and shoot elimination, *US Patent 7,950,221*, 2011
6. Garagounis, I., Kyriakou, V., Anagnostou, C., Bourganis, V., Papachristou, I., Stoukides, M., Solid electrolytes: Applications in heterogeneous catalysis and chemical cogeneration, *Industrial and Engineering Chemistry Research* 50 (2), pp. 431-472, 2011
7. Cloutier R.C., Advanced electrochemical reforming of methanol for hydrogen production, *Ph.D Thesis*, University of British Columbia, Canada, 2011
8. Katsaounis A., Recent developments and trends in the electrochemical promotion of catalysis (EPOC), *Journal of Applied Electrochemistry*, 40(5), 885-902, 2010
9. Stancovski V., Methods and apparatus for controlling catalytic processes, including the deposition of carbon based particles, *US Patent 12/463,492*, 2009
10. Stancovski, Victor and Seetharaman, Sridhar, Control system for catalytic processes, Catelectric Corp., *US patent 7325392*, 2008
11. Poulidi, D., Mather, G.C., Metcalfe, I.S., Wireless electrochemical modification of catalytic activity on a mixed protonic-electronic conductor, *Solid State Ionics* 178 (7-10), pp. 675-680, 2007
12. Wang, Z.-B., Yin, G.-P., Lin, Y.-G., Synthesis and characterization of PtRuMo/C nanoparticle electrocatalyst for direct ethanol fuel cell, *Journal of Power Sources* 170 (2), pp. 242-250, 2007
13. Koutsodontis, C., Katsaounis, A., Figueroa, J., Cavalca, C., Pereira, C., and Vayenas, C., The effect of catalyst thickness on the electrochemical promotion of ethylene on Pt, *Topics in Catalysis*, 39(1-2), 97-100, 2006.
14. Poulianitis, C., Maragou, V., Yan, A., Song, S., Tsiakaras, P., Investigation of the reaction of ethanol-steam mixtures in a YSZ electrochemical reactor operated in a fuel cell mode, *Journal of Fuel Cell Science and Technology* 3 (4), pp. 459-463, 2006
15. Koutsodontis C., Katsaounis A., Figueroa J.C., et al, The effect of catalyst film thickness on the magnitude of the electrochemical promotion of catalytic reactions, *Topics in Catalysis* 38 (1-3), pp. 157-167 2006
16. Luersenn B., Fischer H., Janek J., and Guenther S., In situ microspectroscopy of polarized Pt/YSZ electrodes, *Solid State Ionics*, 10, 2004

J12. Fuel Options for Solid Oxide Fuel Cells: A Thermodynamic Analysis. S. Douvartzides, F. A. Coutelieris and P. Tsiakaras, *AIChE*, 49(1), 248-257, 2003.

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1. Prodromidis G.N., and Coutelieris F.A., Solid Oxide Fuel Cell systems for electricity generation: an optimization prospect, *Renewable Energy*, 146, 38-43, 2020
2. Maza W.A., Tsoi S., Stemhurst D.A., Eigenbrodt B.C., Walker R.A., and Owtrutsky J.C., Operando studies of carbon removal and partial oxidation in solid oxide fuel cells, *ECS Transactions*, 91(1), 629-640, 2019
3. Sayar A., and Eskin N., Experimental and theoretical analysis of a monolith type auto-thermal reforming reactor, *International Journal of Hydrogen Energy*, 44(21), 10232-10249, 2019
4. Faro M.L., Oliveira V.L., Reis R.M., Saglietti G.G.A., Zignani S.C., Trocino S., Ticianelli E.A., and Arico A.S., Solid Oxide Fuel Cell fed directly with dry glycerol, *Energy*

- Technology* (special issue: Progress Toward Direct Liquid-Fed Solid-Oxide Fuel Cells), 7(1), 45-47, 2019
5. Jeong H., Hauser M., Fischer F., Hauck M., Lobe S., Peters R., Lenser C., Menzler N.H., and Guillon O., Utilization of bio-syngas in Solid Oxide Fuel Cell stacks: effect of hydrocarbon reforming, *Journal of Electrochemical Society*, 166(2), F137-F143, 2019
 6. Amiri A., Tang S., Steinberger-Wilckens R., and Tade O.M., Evaluation of fuel diversity in Solid Oxide Fuel Cell system, *International Journal of Hydrogen Energy*, 43(52), 23475-23487, 2018
 7. Jeong H., Geis M., Lenser C., Lobe S., Herrmann S., Fendt S., Menzler N. H., and Guillon O., Coupling SOFCs to biomass gasification – The influence of phenol on cell degradation in simulated bio-syngas. Part II – Post-test analysis, *International Journal of Hydrogen Energy*, In Press. 2018
 8. Faro M.L., Trocino S., Zignani S.C., Antonucci V., Arico A.S., Production of syngas by solid oxide electrolysis: A case study, *International Journal of Hydrogen Energy*, 42(46), 27859-27865, 2017
 9. Faro M.L., Trocino S., Zignani S.C., Italiano C., Vita A., and Arico A.S., Study of a solid oxide fuel cell fed with n-dodecane reformat. Part II: Effect of the reformat composition, *International Journal of Hydrogen Energy*, 42(3), 1751-1757, 2017
 10. Linares F., Puerto S.A.L., Tatiana L., Análisis del modelo matemático de una celda de combustible de óxido sólido (SOFC) empleando como combustible el gas de síntesis, producido en la gasificación de biomasa, Universidad de Americas, Bogota, 2017
 11. Fitzek K., Elektrochemische Charakterisierung von volloxidischen Anoden für metallgestützte SOFCs auf Basis von La_{0.9}Sr_{0.1}Cr_{0.2}Mn_{0.8}O_{3-δ} und Gd_{0.1}Ce_{0.9}O₂, Technischen Universität Wien, 2016
 12. Tucker D., Zaccaria V., Harun N.F., Real-time model of a fuel manifold in a solid oxide fuel cell stack for fuel flexibility studies, ASME. International Conference on Fuel Cell Science, Engineering and Technology, *ASME 2016 14th International Conference on Fuel Cell Science, Engineering and Technology* ():V001T04A005. doi:10.1115/FUELCELL2016-59429.
 13. Liso V., Cinti G., Nielsen M.P., Desideri U., Solid oxide fuel cell performance comparison fuelled by methane, MeOH, EtOH and gasoline surrogate C₈H₁₈, *Applied Thermal Engineering*, In Press, 2016
 14. Tippawan P., Arpornwichanop A., Performance and economic assessments of a solid oxide fuel cell system with a two-step ethanol steam reforming process using CaO sorbent, *Journal of Power Sources*, 306, 124-134, 2016.
 15. Saqib N., Development and characterization of an impedance based carbo sensor for the detection of catalyst coking in steam methane and dry methane reforming systems, *Ph.D Thesis*, Colorado School of Mines, 2015
 16. Hedayat N., Fabrication of planar and tubular solid oxide fuel cells, Ph.D. Thesis, University of Akron, 2015
 17. Thomann O., Improved durability and reduced system complexity of solid oxide fuel cell systems, *Ph.D. Thesis*, Technical Research Center of Finland, Finland, 2015
 18. Faro M.L., Trocino S., Zignani S.C., Reis R.M., Monforte G., Ticianelli E.A., and Arico S.A., Ni-based alloys as protective layer for a conventional solid oxide fuel cell fed with biofuels, *ECS Transactions*, 69(1), 2653-2658, 2015.
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 20. Halinen M., Improving the performance of solid oxide fuel cell systems, Ph.D. Thesis, Aalto University, Finland, 2015
 21. Faro M.L., Frontera P., Antonucci P.L., and Arico A.S., Ni-Cu based catalysts prepared by two different methods and their catalytic activity toward the ATR methane, *Chemical Engineering Research and Design*, 93, pp. 269-277, 2015
 22. Faro M.L., Reis R.M., Saglietti G.G.A., Sato A.G., Ticianelli E.A., Zignani S.C., and Arico A.S., Nickel-Copper/Gadolinium doped Ceria (CGO) composite electrocatalyst as a protective layer for a solid oxide fuel cell anode fed with ethanol, *ChemElectroChem*, 1 (8), pp. 1395-1402, 2014
 23. Shi H., Su C., Yang G., Ran R., Hao Y., Tade M.O., Shao Z., Fabrication and operation of flow-through tubular SOFCs for electric power and synthesis gas cogeneration from methane, *AIChE Journal*, 60(3), pp. 1036-1044, 2014.
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PARTICIPATIONS IN CONFERENCES WITH PROCEEDINGS – ORAL PRESENTATIONS

C1. Methane Catalytic and Electrocatalytic Combustion over Perovskite Type Oxides Deposited on YSZ

S. Douvartzides (oral presentation), G. Dimoulas and P. Tsiakaras
5th Natural Gas Conversion Symposium
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C2. Catalytic Behavior of La_{0.6}Sr_{0.4}Co_{0.8}Fe_{0.8}O₃ Perovskite-type Oxide Thin Films Deposited on YSZ During the Reaction of Ethanol Combustion

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C3. Catalytic Combustion of Ethanol in SOFC's

S. Douvartzides, D. Milionis, N. Georgakakis and P. Tsiakaras
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C4. Catalytic and Electrocatalytic Oxidation of Ethanol over La_{0.6}Sr_{0.4}Co_{0.8}Fe_{0.2}O₃ Perovskite-type Catalyst

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C5. Reaction Kinetics of the Catalytic Combustion of Light Hydrocarbons (Ethylene) in Fixed Bed Reactor

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C6. Design and Development of Perovskite-type Catalyst for Low Temperature Combustion: The Cases of CH₄ and CO Combustion

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C8. Ethanol Utilization in Solid Electrolyte Electrochemical Cells: A Thermodynamic Approach

A. Demin, S. Douvartzides (oral presentation), N. Georgakakis and P. Tsiakaras
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C22. Energy and exergy analysis of a Solid Oxide Fuel Cell plant fueled by ethanol and methane

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London-UK, September 24-26/2003

C23. $\text{Bi}_4\text{Cu}_{0.2}\text{V}_{1.8}\text{O}_{11.6}$ based membrane electrochemical reactors for propane oxidation at moderate temperatures

R. Cai, J.H. Tong, B.F. Ji, W.S. Yang, S. Douvartzides (oral presentation) and P. Tsiakaras
Solid State Ionics – Transport Properties, organized by the Institute for Ionics and the University of Patras-Greece
Patras-Greece, September 14-18/2004

C24. Exergy analysis of the integrated biomass gasification - Solid Oxide Fuel Cell process

C. Athanasiou, S. Douvartzides, E. Vakouftsi, F. Coutelieris and G. Marnellos
3rd International Energy, Exergy and Environment Symposium (IEEES 3)
Evora - Portugal, July 1-5/2007

C25. Thermal design of a natural gas - diesel dual fuel turbocharged V18 engine for ship propulsion and power plant applications

S. Douvartzides (oral presentation) and I. Karmalis
Innovative Manufacturing Engineering and Energy (IMANEE) International Conference
Kallithea - Chalkidiki - Greece, September 23-25/2016

C26. Working fluid selection for the Organic Rankine Cycle (ORC) exhaust heat recovery of an internal combustion engine power plant

S. Douvartzides (oral presentation) and I. Karmalis
Innovative Manufacturing Engineering and Energy (IMANEE) International Conference
Kallithea - Chalkidiki - Greece, September 23-25/2016

C27. Environmental investigation of a residential central heating oil burner fuelled by variable concentration light oil - biodiesel blends

I Karmalis, S. Douvartzides, E. Karmalis
ASHRAE International Conference "Energy in Buildings 2016"
Athens - Greece, November 12/2016

C28. Integrated management and exploitation of multi-dispersed agricultural residues – application to energy production.

Goula M.A., Charisiou N.D., Douvartzides S.L., Siakavelas I., Papadakis V.G., Wang W., and Liu G.,
ICB2019 (7th International Conference on Biorefinery),
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C29. Effect of operating parameters on the selective catalytic deoxygenation of palm oil to produce renewable diesel over Ni supported on Al_2O_3 , ZrO_2 and SiO_2 catalysts.

Papageridis K.N., Charisiou N.D., Douvartzides S.L. (oral presentation), and Goula M.A.,
ICB2019 (7th International Conference on Biorefinery)
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C30. Influence of the synthesis method parameters used to prepare Ni-based catalysts on the catalytic performance for the selective catalytic deoxygenation of palm oil.

Papageridis K.N., Charisiou N.D., Douvartzides S.L., and Goula M.A.,
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C31. Utilization of glycerol from the biodiesel industry for H₂ production via the steam reforming reaction using noble metal catalysts.

Charisiou N.D., Papageridis K.N., Siakavelas G.I., Stavrou S., Bakagianni A., Douvartzides S.L., and Goula M.A.,

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C32. Integrated management and exploitation of agricultural residues: Application to energy production.

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C33. Production of renewable Green Diesel through the catalytic selective deoxygenation of palm oil over Ni/ZrO₂ catalysts doped with La₂O₃.

Papageridis K.N., Charisiou N., Bakagianni A., Douvartzides S., and Goula M.

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C34. Roles of Ni, Co and Cu monometallic catalysts supported on ZrO₂ for green diesel production via the palm oil hydrodeoxygenation

Kyriakos N. Papageridis, Nikolaos D. Charisiou, Savvas Douvartzides, Steven J. Hinder, Mark A. Baker, Kyriaki Polychronopoulou, Maria A. Goula

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SUPERVISION OF MSc DISSERTATIONS

1. Darlas Georgios, Design of a residential Solid Oxide Fuel Cell system, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, under supervision.
2. Karafyllias Georgios, Fuel processing for fuel cells, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, under supervision.
3. Saoulidou Efthalia, The impact of Greece's energy legislative environment on the penetration of RES: A research of RES installation at a domestic level, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, November 2019.
4. Vlami Foti, Production of Biofuels from Microalgae, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, November 2019.
5. Passialis Georgios, Pumped Hydro Energy Storage, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, November 2019.
6. Deligiannidis Lazaros, Modern Battery Technologies, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy

- Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, June 2019.
7. Xenou Apostolia, Hydrogen energy storage and fuel cells, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, June 2019.
 8. Theofylaktidis Georgios, Renewable methanol production and use in direct methanol fuel cells (DMFC's), MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, February 2019
 9. Kolovos Apostolos, Exergy analysis of biomass fired power plants, MSc Thesis, Western Macedonia University of Applied Sciences, Kozani - Greece, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, February 2019.
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 12. Bouzambalidis Nikolaos, Underground Thermal Energy Storage, MSc Thesis, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, June 2018.
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 15. Petrou Stefanos, Solar Based Hydrogen Production Systems, InterDepartmental Master Program in Renewable Energy Sources & Buildings Energy Management, Western Macedonia University of Applied Sciences, Kozani - Greece, January 2018
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