VASILEIOS KYRIAKOU, PhD

Assistant Professor of Energy Conversion & Processes @ University of Groningen

383 Windsor Street, 02141, Cambridge, MA, USA; Tel.: +1 (617) 901 3246;

https://www.linkedin.com/in/vasilis-kyriakou-phd/

https://orcid.org/0000-0002-7088-1160

E-mail: v.kyriakou@rug.nl

HIGHLIGHTS/ACHIEVEMENTS

- Chemical Engineer with 10 years of experience in catalytic and electrocatalytic processes •
- Strong background in materials science and chemical reaction engineering
- Design and development of electrochemical processes for chemical energy storage
- Author of 35 peer-reviewed articles and Review Editor for Frontiers in Environmental Chemistry •
- Two of his most recent articles were highlighted by Science, C&EN and Nature Catalysis •
- Team-player with successful supervision and motivation of junior researchers •

RESEARCH EXPERIENCE

Massachusetts Institute of Technology (MIT), USA

Postdoctoral Fellow at the Nuclear Science and Engineering (NSE) and Materials Science and Engineering (MSE) Departments Advisor: Prof. Bilge Yildiz

- Elucidation of electron-driven exsolution mechanism of metal nanoparticles in perovskites
- Development and characterization of cells and process systems for H₂O and CO₂ electrolysers

Dutch Institute for Fundamental Energy Research (DIFFER), The Netherlands 2017-2019

Postdoctoral Researcher at the Catalytic and Electrochemical Processes for Energy Applications group Advisors: Dr. Mihalis N. Tsampas, Prof. Dr. Mauritius C.M. (Richard) van de Sanden

- Research on electrocatalytically active materials for plasma-assisted electrochemical N2 fixation •
- Designed promising electrodes for CO₂ and H₂O high temperature electrolysis
- Studied exsolution of transition metal nanoparticles in perovskite oxides ٠

Centre National de la Recherche Scientifique CNRS), France

Postdoctoral Fellow at the Laboratoire d'Application de la Chimie à l'Environnement, Lyon

Advisor: Dr. Philippe Vernoux

- Investigated the Electrochemical Promotion of Catalysis (EPOC) for alkane activation
- Searched solutions in overpassing the challenges for EPOC's industrial implementation

Chemical Process & Energy Resources Institute (CPERI), Greece

Postdoctoral Associate at the Laboratory of Process Systems Design and Implementation (PSDI) Advisor: Prof. Michael Stoukides

- Utilized electricity-driven ceramic membrane reactors to shift equilibrium limited chemical reactions, such as ammonia and methanol synthesis, and carbon dioxide hydrogenation
- Developed and fabricated electrochemical cells for methane activation and coal utilization
- Implemented higher scale units for electrochemical processes

University of Western Macedonia, Greece

Postdoctoral Fellow at Laboratory of Process of the Mechanical Engineering Dpt.

Advisor: Prof. George Marnellos

- Identified catalysts for coal gasification from CO₂ and/or steam
- Designed and characterized anodic electrodes for Direct Coal SOFCs

2019-2020

2016

2014-2016

2013-2014

King Abdullaziz City for Science and Technology, Saudi Arabia

Consultant of the Fuel Cells Laboratory PI: Dr. Abdullah Al Musa

- Fabricated SOFC/SOEC units as well as trained researchers for experimental studies at KACST
- Searched for new electrocatalysts for liquid hydrocarbon reforming

Aristotle University of Thessaloniki, Greece

Postgraduate Researcher at the Laboratory of Electrochemical Processes in Chemical Engineering Dpt

- Utilized electricity-driven ceramic membrane reactors to shift equilibrium limited chemical reactions, such as ammonia synthesis
- Fabricated electrochemical cells for methane activation and coal utilization
- Designed and implemented higher scale units for electrochemical processes

EDUCATION

PhD in Electrochemical Engineering, Aristotle University of Thessaloniki (AUTH) 2013

Dissertation: "Use of Solid State Ionic Conductors for the Study of Methane Reforming and/or Coupling in the Presence of Steam", *Supervisor: Prof. M. Stoukides.*

MSc in Physical Chemistry of Materials and Electrochemistry, AUTH 2012

Thesis: "Electrocatalytic Synthesis of Ammonia from Steam and Nitrogen at Atmospheric Pressure", *Supervisor: Prof. D. Tsiplakides.*

Diploma in Chemical Engineering, AUTH

Minored in Environmental Engineering

HONOURS AND AWARDS

- Interviewed by Science (https://www.sciencemag.org/news/2019/11/new-reactor-could-halve-carbondioxide-emissions-ammonia-production), Nature Catalysis (Nature Catal. 2 (2019) 1055) and C&EN (November 7, 2019, Appeared In Volume 97, Issue 44) for his concept of an Electrochemical Haber-Bosch Process (Joule, 4 (2020) 1-17).
- His ACS Nano (13 (2019) 12996–13005) article reporting mechanistic studies for metal nanoparticles' exsolution by means of in-situ transmission electron microscopy (TEM) was the chief editor's choice in the November 15, 2019 issue of Science (366, 6467 2019) 834)
- «Séjours scientifiques de haut niveau», Scholarship awarded for research in France, Embassy of France in Greece, 2016
- Presentation Award (1st prize) in 13th Greek National Symposium on Catalysis, Greece, 2014
- Excellency Award by the Research Committee of Aristotle University, Greece, 2014
- Postgraduate Scholarship by the Chemical Process Engineering Research Institute, Greece, 2009
- Graduate fellowship from Universidad de Castilla La Mancha, Spain, for school with subject "Trends in Electrochemical Promotion of Catalysis"

RELEVANT PROFESSIONAL EXPERIENCE

Chemistry Laboratory of the Hellenic Army, Greece

Special Scientist-Chemical Engineer

- Analysis and evaluation of fuels and lubricants for army helicopters and battle vehicles.
- Setting of new analysis instruments and preparation of health and safety protocols in the lab

Unit for waste water management of Mytilene, Greece

Chemical Engineer trainee

- Analysis and evaluation of waste water of the city of Mytilene.
- Critical evaluation and report on improving the waste water purification process

2015

2008

2012-2014

2009-2012

2008

TEACHING EXPERIENCE

Chemical Engineering Dpt, AUTH

Teaching assistant for the undergraduate course of Applied Thermodynamics II

Chemical Engineering Dpt, AUTH,

Supervising Diploma Theses (>20) and PhD Dissertations (3) in the Electrochemical Processes Lab under the high supervision of Prof. M. Stoukides

Tziolas Scientific Publications

Textbook translations from English to Greek for Engineers

SKILLS

- Written: Drafting research proposals for grants, progress reports and journal publications
- Verbal: Excellent communication skills with > 30 oral presentations in international conferences
- Strong interpersonal skills for interaction with partners and funders
- Experimental Techniques: Analysis with Gas Chromatography, Mass-Spectrometry, Infra-Red Spectrometry. Knowledge of perovskite-based electrode preparation with solid state reactive sintering and combustion methods, characterization SEM, TEM, EDX, XRD, TPO, TPR, XPS, Electrochemical measurements of I-V polarization, AC impedance, cyclic voltammetry
- Proficiency in the use of a personal computer, word-processing applications, and spreadsheet applications
- Design and build experimental apparatus for gas-phase catalytic and electrochemical processes

SUMMARY OF SCIENTIFIC AND RESEARCH ACTIVITY

Refereed Publications (Journals):	35
International Conference Proceedings:	59
Book translations:	2
Research Lectures (at International Meetings, Universities, Research Centers):	22
Reviewer in Journals:	12
Graduate Students Supervision (under the high supervision of Prof M. Stoukides)	21
Citations (Google Scholar citations):	891
Articles with >10 citations in the last 5 years)	17
Citations in the last 5 years	741
h-index:	14

JOURNAL REVIEWER

Regular reviewer for scientific journals: Chem, Applied Catalysis B: Environmental, Journal of Power Sources, Journal of Membrane Science, Journal of Electrochemical Society, ChemElectroChem, Journal of CO₂ utilization, International Journal of H₂ energy, Solid State Ionics, Sustainable Energy & Fuels, Ionics, ACS Industrial and Engineering Chemistry, Energy Conversion & Management, Chemical Engineering Research and Design, Frontiers in Environmental Chemistry

PEER-REVIEWED ARTICLES

- V. Kyriakou, D. Neagu, G. Zafeiropoulos, C. Tang, K. Kousi, I. S. Metcalfe, M.C.M. van de Sanden, M.N. Tsampas, "Symmetrical Exsolution of Rh Nanoparticles in Solid Oxide Cells for Efficient Syngas Production from Greenhouse Gases", ACS Catal. 10 (2020) 1278–1288.
- V. Kyriakou, I. Garagounis, A. Vourros, E. Vasileiou, M. Stoukides, "An Electrochemical Haber-Bosch Process", Joule 4 (2020) 1–17.
- D. Neagu, V. Kyriakou, M. Aouine, L. Roiban, C. Tang, A. Caravaca, K. Kousi, I. Schreur-Piet, I. S. Metcalfe, P. Vernoux, M.C.M. van de Sanden, M.N. Tsampas, "In situ observation of nanoparticle exsolution from perovskite oxides; from atomic scale mechanistic insight to new nanostructures", ACS Nano, 13 (2019) 12996–13005.

2009-2016

2015-2016

- 4. V. Kyriakou, D. Neagu, E.I. Papaioannou, I.S. Metcalfe, M.C.M. van de Sanden, M.N. Tsampas, "Coelectrolysis of H₂O and CO₂ on exsolved Ni nanoparticles for efficient syngas generation at controllable H₂/CO ratios" Applied Catalysis B': Environmental 258 (2019) 117950.
- H. Patel, R.K. Sharma, V. Kyriakou, A. Pandiyan, S. Welzel, M.C.M. van de Sanden, M.N Tsampas "Plasma activated electrolysis for cogeneration of nitric oxide and hydrogen from water and nitrogen", ACS Energy Lett. 4 (2019) 2091-2095.
- C. Athanasiou, I. Garagounis, V. Kyriakou, A. Vourros, G.E. Marnellos, M. Stoukides, "Demonstration of Hydrogen Production in a Hybrid Lignite-Assisted Solid Oxide Electrolysis Cell", International Journal of Hydrogen Energy, 44 (2019) 22770-22779.
- 7. V. Kyriakou, I. Garagounis, A. Vourros, G.E. Marnellos, M. Stoukides, "A protonic ceramic membrane reactor for the production of hydrogen from coal steam gasification", Journal of Membrane Science, 553 (2018) 163.
- 8. M. Konsolakis, N. Kaklidis, V. Kyriakou, I. Garagounis, T. Kraia, A. Arenillas, J.A. Menéndez, R. Strandbakke, G.E. Marnellos, "The combined impact of carbon type and catalyst-aided gasification process on the performance of a Direct Carbon Solid Oxide Fuel Cell", Solid State Ionics, 317, (2018) 268.
- A. Krestou, I. Giozis, G. Maroulis, A. Barbatsis, C. Tsanaktsidis, V. Kyriakou, N.E. Kiratzis, "Fabrication of Thin Functional Films by Solution Aerosol Thermolysis (SAT)", ECS Journal of Solid State Science and Technology, 7-11 (2018) 660.
- A. Krestou, I. Giozis, G. Maroulis, V. Kyriakou, C. Tsanaktsidis, N.E. Kiratzis, "Fabrication and Characterization of thin Ceramic Films by Spray Pyrolysis", Materials Today: Proceedings, 5-14 (2018) 27636.
- 11. J. Díez-Ramírez, P. Sánchez, V. Kyriakou, S. Zafeiratos, G.E. Marnellos, M. Konsolakis, F. Dorado, "Effect of support nature on the cobalt-catalyzed CO2 hydrogenation", Journal of CO₂ Utilization 21 (2017) 562.
- 12. Y. Hajar, V. Di Palma, V. Kyriakou, M.A. Verheijen, E.A. Baranova, P. Vernoux, W.M.M. Kessels, M. Creatore, M.C.M. van de Sanden, M.N. Tsampas, "Atomic layer deposition of highly dispersed Pt nanoparticles on a high surface area electrode backbone for electrochemical promotion of catalysis", Electrochemistry Communications 84 (2017) 40.
- A. Krestou, I. Giozis, G. Maroulis, V. Kyriakou, C. Tsanaktsidis, N.E. Kiratzis, "Fabrication of Thin Electrodic Films by Solution Aerosol Thermolysis (SAT)", ECS Transactions. 78-1 (2017) 1839.
- 14. V. Kyriakou, A. Vourros, I. Garagounis, S.A.C. Carabineiro, F.J. Maldonado-Hódar, G.E. Marnellos, M. Konsolakis, "Highly Active and Stable TiO₂ supported Au nanoparticles for CO₂ reduction to CO", Catalysis Communications 98 (2017) 52.
- 15. J. Díez-Ramírez, V. Kyriakou, I. Garagounis, A. Vourros, E. Vasileiou, P. Sanchez, F. Dorado, M. Stoukides, "Enhancement of Ammonia Synthesis on a Co₃Mo₃N-Ag Electrocatalyst in a K-βAl₂O₃ Solid Electrolyte Cell, ACS Sustainable Chemistry & Engineering, 5-10 (2017) 8844.
- A. Vourros, I. Garagounis, V. Kyriakou, S.A.C. Carabineiro, F.J. Maldonado-Hódar, G.E. Marnellos, M. Konsolakis, "Carbon Dioxide Hydrogenation to Methanol over Supported Au nanoparticles: Effect of the support", Journal of CO₂ Utilization, 19 (2017) 247.
- A. Vourros, V. Kyriakou, I. Garagounis, E. Vasileiou and M. Stoukides, Chemical Reactors with High Temperature Proton Conductors as a Main Component: Progress in the Past Decade, Solid State Ionics 306 (2017) 76.
- 18. V. Kyriakou, I. Garagounis, E. Vasileiou, A. Vourros, M. Stoukides, "Progress in Electrochemical Synthesis of Ammonia", Catalysis Today, 286 (2017) 2.
- 19. V. Kyriakou, I. Garagounis, A. Vourros, E. Vasileiou, A. Manerbino, W.G. Coors, M. Stoukides, "Steam Reforming of Methane at Low Temperatures in a BaCe_{0.2}Zr_{0.7}Y_{0.1}O_{2.9} Proton Conducting Membrane Reactor", Applied Catalysis B': Environmental, 186 (2016) 1.
- N. Kaklidis, V. Kyriakou, G.E. Marnellos, R. Strandbakke, A. Arenillas, J.A. Menéndez, and M. Konsolakis, "Effect of Fuel Thermal Pretreament on the Electrochemical Performance of a Direct Lignite Coal Fuel Cell", Solid State Ionics, 288 (2016) 357.

- E. Vasileiou, V. Kyriakou, I. Garagounis, A. Vourros, A. Manerbino, W.G. Coors, M. Stoukides, "Electrochemical Enhancement of Ammonia Synthesis in a BaZr_{0.7}Ce_{0.2}Y_{0.1}O_{2.9} Solid Electrolyte Cell", Solid State Ionics, 288 (2016) 140.
- 22. A. Al-Musa, M. Al-Saleh, A. Al-Zahrani, N. Kaklidis, V. Kyriakou, G.E. Marnellos, "Iso-Octane Internal Reforming in a Solid Oxide Cell Reactor", Solid State Ionics, 288 (2016) 139.
- 23. E. Vasileiou, V. Kyriakou, I. Garagounis, A. Vourros, A. Manerbino, W.G. Coors, M. Stoukides, "Reaction Rate Enhancement during the Electrocatalytic Synthesis of Ammonia in a BaZr_{0.7}Ce_{0.2}Y_{0.1}O_{2.9} Solid Electrolyte Cell", Topics in Catalysis, 58-18 (2015) 1193.
- 24. N. Kaklidis, I. Garagounis, V. Kyriakou, V. Besikiotis, A. Arenillas, J.A. Menéndez, G.E. Marnellos and M. Konsolakis, "Direct Utilization of Lignite Coal in a Co-CeO₂/YSZ/Ag Solid Oxide Fuel Cell", International Journal of Hydrogen Energy, 40-41 (2015) 14353.
- M. Konsolakis, G. E. Marnellos, A. Al-Musa, N. Kaklidis, I. Garagounis, V. Kyriakou, "Carbon to electricity in a solid oxide fuel cell combined with a catalyzed gasification process", Chinese Journal of Catalysis, 36-4 (2015) 509.
- 26. E. Vasileiou, V. Kyriakou, I. Garagounis, A. Vourros and M. Stoukides, "Ammonia synthesis at atmospheric pressure in a BaCe_{0.2}Zr_{0.7}Y_{0.1}O_{2.9} solid electrolyte cell" Solid State Ionics, 275 (2015) 110.
- N. Kaklidis, V. Kyriakou, I. Garagounis, A. Arenillas, J.A. Menéndez, G.E. Marnellos and M. Konsolakis "Effect of carbon type on the performance of a Direct or Hybrid Carbon Solid Oxide Fuel Cell", RSC Advances, 4 (2014) 18792.
- 28. I. Garagounis, V. Kyriakou, A. Skodra, E. Vasileiou and M. Stoukides, "Electrochemical Synthesis of Ammonia in Solid Electrolyte Cells", Frontiers in Energy Research, 2 (2014) 1.
- **29. V. Kyriakou**, I. Garagounis and M. Stoukides, "Steam Electrolysis with Simultaneous Production of C₂ Hydrocarbons in a Solid Electrolyte Cell", International Journal of Hydrogen Energy, 39 (2014) 675.
- **30.** A. Al-Musa, **V. Kyriakou**, M. Al-Saleh, R. Al-Shehri, N. Kaklidis, G.E. Marnellos, "Iso-Octane Internal Reforming in a Solid Oxide Fuel Cell Using Co/CeO₂ as Anodic Composites", ECS Trans. 58-3, (2013) 131.
- I. Garagounis, V. Kyriakou and M. Stoukides, "Electrochemical Promotion of Catalytic Reactions: Thermodynamic Analysis and Calculation of the Limits in Faradaic Efficiency", Solid State Ionics, 231 (2013) 58.
- **32.** V. Kyriakou, C. Athanasiou, I. Garagounis, A.Skodra and M. Stoukides, "Production of H₂ in a Proton Conducting Cell with Simultaneous Conversion of Methane to C₂ Hydrocarbons", International Journal of Hydrogen Energy, 37 (2012) 16636.
- **33. V. Kyriakou**, C. Athanasiou, I. Garagounis, A. Skodra and M. Stoukides, "Production of C₂ Hydrocarbons and H₂ from Methane in a Proton Conducting Cell", Solid State Ionics, 225 (2012) 219.
- 34. I. Garagounis, V. Kyriakou, C. Anagnostou, V. Bourganis, I. Papachristou and M. Stoukides, "Solid Electrolytes: Applications in Heterogeneous Catalysis and Chemical Cogeneration", Industrial & Engineering Chemistry Research, 50 (2011) 431.

SELECTED CONFERENCE PRESENTATIONS AND LECTURES

- V. Kyriakou, D. Neagu, M.N. Tsampas, "Exsolution of Transition Metal Nanoparticles for Solid Oxide Co-Electrolysis of CO₂-H₂O", Sustainable Industrial Processing Summit & Exhibition, 23-27 October 2019, Paphos, Cyprus.
- V. Kyriakou, D. Neagu, G. Zafeiropoulos, C. Tang, I.S. Metcalfe, M.C.M. van de Sanden, M.N. Tsampas, "Syngas production by Methane-Assisted Co-electrolysis in a symmetrical Cell with exsolved Rh nanoparticles" 22nd International Conference on Solid State Ionics, June 17-22, PyeongChang, Korea.
- 3. D. Neagu, **V. Kyriakou**, M. Aouine, L. Roiban, C. Tang, K. Kousi, I.S. Metcalfe, P. Vernoux, M.N. Tsampas, "In situ observation of nanoparticle exsolution from perovskite oxides - from mechanistic insight to new nanostructures", 22nd International Conference on Solid State Ionics, June 17-22, PyeongChang, Korea.

- V. Kyriakou, V. Di Palma, A. Pandiyan, Y. Hajar, M. Creatore, E. Baranova, P. Vernoux, M.C.M. van de Sanden, M.N. Tsampas, "Atomic Layer Deposition of Pt Nano-Particles for Electrocatalysis", 25th Topical ISE Meeting, May 12-15, 2019, Toledo, Spain.
- 5. **V. Kyriakou**, D. Neagu, E. I. Papaioannou, I. Metcalfe, M.C.M. van de Sanden, M.N. Tsampas, "Development of perovskite cathodes with in-situ exsolution of transition metals for the generation of syngas from co-electrolysis of CO₂ and H₂O", 13th European SOFC & SOE Forum 2018, July 3-6, 2018, Lucerne, Switzerland.
- V. Kyriakou, D. Neagu, E. I. Papaioannou, M.C.M. van de Sanden, M.N. Tsampas, "Co-electrolysis of CO₂ and H₂O on Perovskite Fuel Electrodes with Exsolution of Transition Metal Nano-particles", International Symposium on Electrocatalysis, August 29-31, 2018, Szczyrk, Poland
- V. Kyriakou, V. Di Palma, Y. Hajar, M.A. Verheijen, E.A. Baranova, P. Vernoux, W.M.M. Kessels, M. Creatore, M.C.M. van de Sanden, M. Tsampas, "Atomic layer deposition of Pt-nanoparticles for electrochemical promotion of catalysis", Physics, January 23-24, 2018, Veldhoven, The Netherlands
- 8. **V. Kyriakou,** M.C.M. van de Sanden, M.N. Tsampas, "Co-electrolysis of H2O-CO2 towards syngas in solid oxide cells", Syncat Workshop, April 16-17, 2018, Beijing, China.
- V. Kyriakou, I. Garagounis, A. Vourros, M. Konsolakis, G. Marnellos and Costas Athanasiou, "Hydrogen Production in a Coal-Aided Solid Oxide Electrolysis Cell", 21st International Conference on Solid State Ionics, June 18-23, Padua, Italy.
- A. Vourros, V. Kyriakou, I. Garagounis, E. Vasileiou M. Stoukides, "Chemical Reactors with High Temperature Proton Conductors as a Main Component", Solid State Protonic Conductors, 18-23 September 2016, Oslo, Norway.
- E. Vasileiou, V. Kyriakou, I. Garagounis, A. Vourros and M. Stoukides, "Electrochemical Ammonia Synthesis at Atmospheric Pressure in a BCZY27 Double Chamber Proton Conducting Cell: The Effect of Periodic Current", 16th International Congress on Catalysis, July 3-8, 2016, Beijing, China.
- 12. E. Vasileiou, **V. Kyriakou**, I. Garagounis, A. Vourros, A. Manerbino, W.G. Coors and M. Stoukides, "Solid State Ammonia Synthesis Using a BaCe_{0.2}Zr_{0.7}Y_{0.1}O_{2.9} solid electrolyte and a Ni-BCZY electrode", International Workshop on Protonic Ceramic Fuel Cells Status & Prospects, 8-10 July 2015, Bordeaux, France.
- N. Kaklidis, V. Kyriakou, G.E. Marnellos, A. Arellinas, M. Konsolakis, Effect of fuel thermal pretreatment on the electrochemical performance of a direct lignite coal fuel cell", 20th International Conference on Solid State Ionics, Keystone, Colorado, USA, June 14 - 19, 2015.
- A. Vourros, V. Kyriakou, I. Garagounis, M. Konsolakis, Z. Ioakimides, G.E. Marnellos, and M. Stoukides, "Methanol synthesis at atmospheric pressure in co-ionic electrochemical membrane reactors", 20th International Conference on Solid State Ionics, Keystone, Colorado, USA, June 14 - 19, 2015.
- 15. V. Kyriakou, A. Al-Musa, N. Kaklidis, M. Al-Saleh, G.E. Marnellos, "Internal Steam Reforming of Iso-Octane on Co-based Anodes in a Solid Oxide Fuel Cell", 11th European SOFC and SOE Forum, 1-4 July, 2014, Lucerne, Switzerland.
- M. Stoukides, V. Kyriakou, A. Skodra, I. Garagounis, E. Vasileiou, "Solid Electrolyte Cells for Hydrogen Production and Ammonia Synthesis", International Conference on Hydrogen Production, February 2-5, 2014, Fukuoka, Japan.
- V. Kyriakou, A. Al-Musa, M. Al-Saleh, R. Al-Shehri, G.E. Marnellos, N. Kaklidis, "Iso-Octane Internal Reforming in a Solid Oxide Fuel Cell Using Co/CeO₂ as Anodic Composites", 224th Electrochemical Society Meeting, 27 October – 1 November 2013, San Francisco, USA.
- V. Kyriakou, M. Konsolakis, G. Marnellos, G. Kaklidis and I. Garagounis, "Direct Utilization Of Carbon-Based Feedstocks in a Cu-Ceo2/YSZ/Ag Solid Oxide Fuel Cell Integrated With A Catalyst-Aided Gasification Process", 19th International Conference on Solid State Ionics, June 2-7, 2013, Kyoto, Japan.
- V. Kyriakou, I. Garagounis and M. Stoukides, "Production of C₂ Hydrocarbons and H₂ from Methane and Steam in a Double Chamber O²⁻ Conducting Cell", 19th International Conference on Solid State Ionics, June 2-7, 2013, Kyoto, Japan.
- 20. **V. Kyriakou**, C. Athanasiou, I. Garagounis, A. Skodra and M. Stoukides, "Production of C₂ Hydrocarbons and H₂ from Methane in a Proton Conducting Cell", 18th International Conference on Solid State Ionics, July 3-8, 2011, Warsaw, Poland.