

PERSONAL INFORMATION



Emmanuel Stamatakis, Chemical Engineer, PhD, MBA

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Sex Male | Date of birth 05/06/1974 | Nationality Greek

Military services Fulfilled (2/2000); Reserved officer (rank of lieutenant)

WORK EXPERIENCE

10/2025 onwards

Senior Researcher

Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, National Centre for Scientific Research Demokritos (NCSR), 15341 Aghia Paraskevi, Greece

- Hydrogen Technologies with emphasis on Integrated Systems for Dual-Use Applications
- Assistant Coordinator of the European Defence Fund project “CALIPSO – Innovative propulsion solutions for land and naval defence applications”.
- Deputy director of the Integrated Hydrogen laboratory (H2Lab) of NCSR

Research Centre

04/2023 onwards

Associate Professor

University of Western Macedonia, Interdisciplinary/ Bi-institutional Master programs (Kozani, Greece)

- Management and Transportation of Hydrogen
- Policy, Markets and Legislation for Hydrogen Technologies

University

04/2019 onwards

Founder/Partner

CYRUS P.C., 15341 Aghia Paraskevi, Greece; Start-up company, spin-off of NCSR DEMOKRITOS

- Head of Partnerships & Industrialization
- R&D on metal hydride Hydrogen compressors.

Enterprise

01/2021 – 09/2025

Researcher

Institute of Geoenergy (IG), Foundation for Research and Technology - Hellas (FORTH), Chania, Greece

- Environment, Renewable Energy & Alternative fuels, CCUS, Hydrogen Technologies
- Coordinator of the European project “Twinning to sustainable energy transition – TWINN2SET” focusing on large scale hydrogen storage in geological formations.
- Coordinator of the Regional project “Support of Green Hydrogen investment projects for the Region of Western Macedonia”.

Research Centre

06/2017 – 12/2020

Adjunct Researcher

Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, National Centre for Scientific Research Demokritos (NCSR), 15341 Aghia Paraskevi, Greece

- Smart Hybrid Energy Storage & Management under the Niarchos Industrial fellowship program
- Assistance in Project Management of the Demo4Grid project of FCH2 JU.

Research Centre

11/2017 – 11/2020

Civil Servant

Department of Environment and Spatial Planning of the Region of Epirus of the Decentralized Administration of Epirus - Western Macedonia, Ioannina, Greece

Chemical Engineer

Public Body

03/1999 – 06/2017

Freelance Researcher & Consultant

- Energy & Environmental Research Services; Project Proposal Generation, Project Management & Coordination

Freelancer

06/2016 – 05/2017

Energy Expert / Marie Curie Fellow

DIADIKASIA Business Consulting S.A., 296 Kifisias Ave. & 40 Navarinou str., Halandri, Greece

- Marie Curie fellow; Research & development of an up-scaled metal hydride hydrogen compressor for energy storage applications and performance of a strategic market analysis.

Enterprise

12/2004 – 6/2016

Research Scientist

Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, National Centre for Scientific Research Demokritos (NCSR), 15341 Aghia Paraskevi, Greece

- Actively involved in various National & International, such as: NREL-USA (Further development of spillover based nanostructured materials for hydrogen storage), PERL (Enhancing the research potential of the NCSR Environmental Research Laboratory in the fields of RES & H2 technologies).

Research Centre

08/2007 – 12/2014

Research CollaboratorRES & Hydrogen Technologies Section, Centre for Renewable Energy Sources & Saving, 19th km. Marathonos Ave. 19009, Pikermi, Greece

- Actively involved in various National & International projects, such as: STORIES (Addressing barriers to storage technologies for increasing the penetration of intermittent energy sources); H2SusBuild (Development of a clean and energy self-sustained building in the vision of integrating H2 economy with renewable energy sources).

Research Centre

03/2016 & 02/2017

Invited Lecturer

Technological Research Center of Piraeus and Islands, Technological Educational Institute of Piraeus (Piraeus, Greece)

- Modern Hydrogen technologies

University

03/2014

Invited Lecturer

M.Sc. in Energy; Technological Educational Institute of Piraeus (TEI), Department of Mechanical Engineering – Energy Section & Heriot-Watt University (Piraeus, Greece)

- Demand Management of Energy Storage

University

7/2013

Invited Lecturer

University of Western Macedonia (Kozani, Greece), Summer School

- Renewable Energy Sources: Research, Innovation & Entrepreneurship
- Hydrogen Exploitation in Transport & Stationary applications

University

09/2006 – 06/2010

Adjunct Professor

Technological Educational Institute of Piraeus (TEI), Department of Mechanical Engineering – Energy Section (Piraeus, Greece)

- Project Management & Feasibility Analysis, Mechanical Installations for Waste Treatment, Environmental Measurement Technology, Seminar for Graduate Students.

University

12/2003 – 12/2007

Postdoc Researcher

Institute for Energy Technology (IFE), NO-2027 Kjeller, Norway

- Work in the Norwegian project KMBSCALE as instrumental in development for the study of calcite scale formation in production wells using nuclear techniques & in the EU project HDR-geo for the study of scaling problematics in heat pipes.

Research Centre

01/2001 – 12/2003

PhD Researcher

NCSR & IFE (Athens Greece & Kjeller, Norway)

- Work in the EU project ARISSTON for the experimental investigation of scaling in core samples using radioactive tracers & in the EU project HDR-geo for scaling problematics in heat exchangers during exploitation of geothermal energy in Europe.

Research Centres

02/2000 – 12/2000

Sales Engineer

TEMAK S.A., Athens, Greece

- Research & promotion of water treatment systems & flow control equipment

Enterprise

VOLUNTEER ACTIVITIES

2025 onwards

Cretan Hydrogen Committee

Assigned as deputy member of the Hydrogen Committee in Crete on behalf of IG/FORTH

2024 onwards

EnE CapTech Non-Governmental Expert for Greece (EL CnGE)

Assigned EL CnGE for the Energy and Environment (EnE) CapTech of the EUROPEAN DEFENCE AGENCY (EDA)

2024 onwards

Guest Editor

Guest Editor of the special issue "[*Green Hydrogen and Fuel Cells: Heading Toward a Sustainable Energy Future*](#)"; MDPI - ENERGIES

2022 onwards

Hydrogen Ambassador

- Ambassador of the European Organization Hydrogen Europe in Crete for the promotion of Hydrogen Technologies on the island

2022 onwards

Technical Committee 2 – Hydrogen storage, transport & distribution

HYDROGEN EUROPE RESEARCH – CLEAN HYDROGEN PARTNERSHIP

- Active member of the Technical Committee 2 – Hydrogen storage, transport & distribution

2021 onwards

Hydrogen Strategy Committee

HELLENIC MINISTRY OF ENVIRONMENT & ENERGY

- Participation in the Development of National competitiveness & Pilot investment program WGs

2019 onwards

Hydrogen Valleys S3 Partnership

- Member of the Hydrogen Valleys S3 Partnership – EU; Participation in the Hydrogen Boats & Ports and Hydrogen Valleys & Islands WGs

2017 onwards

Special Advisor

GREEN ENERGY CENTER (Austria)

- Special Advisor for the promotion of RES & Hydrogen Technologies

2014-2021

Participant

N.ERGHY (FCH JU Researchers' Grouping)

- Active participation at the Cross Cutting Issues Working Group on Hydrogen and Fuel Cells

2009-2014

Secretariat

GREEK TECHNOLOGICAL PLATFORM FOR HYDROGEN & FUEL CELLS

- Leader of the Socio-economic Working Group

2010-2011

Deputy President

MINISTRY FOR DEVELOPMENT – GENERAL SECRETARIAT OF COMMERCE, Greece

- Evaluation of Technical Offers for the 1st Committee of Experts of the General Directorate of Public Procurement

EDUCATION AND TRAINING

2002-2005

PhD

National Technical University of Athens (NTUA), School of Chemical Engineering, Greece

- Flow Mechanics, Chemical processes, radiotracer technology

1999-2001

Master in Production Management

National Technical University of Athens – University of Athens – University of Piraeus, Greece

- Production Management, Decision making

1993-1999

Diploma in Chemical Engineering

National Technical University of Athens (NTUA), School of Chemical Engineering, Greece

- Chemical Engineering

PERSONAL SKILLS

Mother tongue Greek

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Norwegian	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Team spirit gained throughout the working experience in European Research Centres (FORTH, CRES, NCSR D & IFE); ability to work at a multinational environment gained through the active participation in international projects; good communication skills gained through the teaching experience as Adjunct Professor.

Organisational / managerial skills

- Experience in project management, Master in Production Management, Adjunct Professor in Project Management & Feasibility Analysis, Reserved Officer and deputy director of the Greek Military Specifications Office, Ability to Multi-task. Experience in proposal preparation & proposal evaluation

Computer skills

- Excellent command of Microsoft Office™ tools
- MATLAB
- gPROMS
- HOMER Simulation tool

Other skills

- Volleyball, tennis

Driving licence

- Categories: B, AM

ADDITIONAL INFORMATION

Honours and awards

- Thomaidio Award for best PhD thesis in Greece (2006);
- Thomaidio Award for Advancement in Science (2005);
- Marie Curie Fellowship 5th Framework (ENK6 – CT 2001 – 50027 – 01) (2002);
- Financial scholarship for the Master in Production Management (1999);

Memberships

- Member of the Technical Chamber of Greece (since 1999)
- Member of the Hellenic Association of Chemical Engineers (since 1999)

Journal Reviewer

- RENEWABLE ENERGY (2017 onwards)
- International Journal of Hydrogen Energy (2020 onwards)
- Renewable and Sustainable Energy Transition (2023 onwards)
- Journal of Energy Storage (2023 onwards)
- Alexandria Engineering Journal (2023 onwards)

Proposal Evaluator

- CLEAN HYDROGEN JU, HORIZON-JU-CLEANH2-2025 (2025)
- CLEAN HYDROGEN JU, HORIZON-JTI-CLEANH2-2024 (2024)
- CET PARTNERSHIP, Call module 3.2: Hydrogen and renewable fuels (2022 – 2023)
- Dutch–German Joint call on “ELECTROCHEMICAL MATERIALS AND PROCESSES FOR GREEN HYDROGEN AND GREEN CHEMISTRY” (2023)
- CLEAN HYDROGEN JU, HORIZON-JTI-CLEANH2-2022 – 2 (2022)
- THE CYPRIOT RESEARCH AND INNOVATION FOUNDATION (2022)
- The ROMANIAN Executive Agency for Higher Education, Research, Development and Innovation Funding (2022)
- POLLAND National Science Center (2021)
- Investment and Development Agency of Latvia (2020)
- Greek General Secretariat for Research and Innovation (2020)
- ERASMUS+/KA2 (2017)
- Cypriot Research Promotion Foundation (2008)

Key Participation in writing/submission/coordination of public & industrial research proposals (approved projects only)

- CALIPSO – Innovative propulsion solutions for land and naval defence applications. Approved for funding after successful evaluation in May 2024. (Budget for NCSR D 1,750,000 €). Coordinator contact
- TRIÉRÈS - TOWARDS THE DEVELOPMENT OF A HYDROGEN VALLEY DEMONSTRATING APPLICATIONS IN AN INTEGRATED ECOSYSTEM IN GREECE. Approved for funding after successful evaluation in May 2023. (Budget for FORTH/IG 166.250 €). Scientific director

- TWINN2SET – Twinning to Sustainable Energy Transition, HORIZON EUROPE. Approved for funding after successful evaluation in May 2022. (Total budget, 1,491,971 €). Coordinator
 - #GreeningDryCleaning - Actions to reduce single-use plastics in Greek dry cleaners, Green fund. Approved for funding after successful evaluation in June 2021. Coordinator (Total budget 48.000 €).
 - H2CYRUS - New materials for Hydrogen compression, GSRT; Approved for funding after successful evaluation in February 2020 (Total budget 549.850 €). Coordinator
 - H2TRANS - Development of an Autonomous RES driven HRS system, Coordinator contact; GSRT; Approved for funding after successful evaluation in May 2019 (Total budget 939.420 €).
 - SHIP FC - Piloting Multi MW Ammonia Ship Fuel Cells, FCH JU, Approved for funding after successful evaluation in September 2019 (budget for NCSR DEMOKRITOS 455.875 €).
 - INNOVATIVE HYDROGEN COMPRESSION CONCEPTS, TOYOTA MOTOR EUROPE NV/SA (E12214). (Total budget 15.000 €). Coordinator.
 - Integrated solar heating and cooling unit based on a novel zeolite chiller and heat pump”, FTI/HORIZON2020; Approved for funding after successful evaluation in January 2017 (Total budget 2.167.437,50 €).
 - Demonstration of 4MW Pressurized Alkaline Electrolyser for Grid Balancing Services”, FCH2JU/HORIZON2020; Approved for funding after successful evaluation in September 2016 (Total budget 7,736,682.50€). Coordinator contact
 - ADVANCED METAL HYDRIDE HYDROGEN COMPRESSORS: PILOT DEVELOPMENT & MARKET PENETRATION (ATLAS-MHC), Marie Curie Industry-Academia Partnerships and Pathways, Call: FP7-PEOPLE-2013-IAPP, Approved for funding after successful evaluation in August 2013 (Total budget 2.645.621 €). Coordinator contact
 - Advances Metal Hydride Tanks for Integrated Hydrogen Applications (ATLAS-H2), Marie Curie Industry-Academia Partnerships and Pathways, Call: FP7-PEOPLE-2009-IAPP, Approved for funding after successful evaluation in February 2010. (Total budget 2.268.340 €). Coordinator contact
 - Experimental investigation and theoretical modeling of CaCO₃ deposition during oil recovery (KMBSALE), Norwegian Research Council (NFR, Approved for funding after successful evaluation in January 2005 (Total budget ~2.000.000 €). Coordinator contact
- Patents
- Co-inventor in Hellenic Patent “Thermal Hydrogen Compressor” (No 1010582; 12/2023).

Publications

In Book chapters

- Nikolaos Chalkiadakis, Athanasios Stubos, **Emmanuel Stamatakis**, Emmanuel Zoulias, Theocharis Tsoutsos, “A review on hydrogen compression methods for hydrogen refuelling stations”, Hydrogen Electric Vehicles, publisher WILEY-Scrivener, USA (2023); <https://doi.org/10.1002/9781394167555.ch3>

In peer-reviewed journals

- Polyanthi-Maria Trimi, Spyridon Bellas, Ioannis Vakalas, Raof Gholami, Vasileios Gaganis, Evangelia Gontikaki, **Emmanuel Stamatakis**, Ioannis V. Yentekakis, “A Review on Caprock Integrity in Underground Hydrogen Storage Sites: Implication of Wettability, Interfacial Tension and Diffusion” accepted for publication, Hydrogen, Manuscript ID: hydrogen-3873935.
- Mojtaba Ghaedi, Raof Gholami, Spyros Bellas, **Emmanuel Stamatakis**, “Hydrogen-Brine-Calcite Geochemical Interactions During Underground Hydrogen Storage”, Greenhouse Gases: Science and Technology (2025); <https://doi.org/10.1002/ghg.2368>
- E. Choleva, A.I. Labropoulos, E. Kouvelos, G.V. Theodorakopoulos, **E. Stamatakis**, S. Bellas, I.V. Yentekakis, K.G. Beltsios, G.E. Romanos, “Alkyl-methylimidazolium tricyanomethanide-based supported ionic liquid membranes for CO₂ separation from flue gas and biogas”, Journal of Environmental Chemical Engineering, 13(5), 118562 (2025); <https://doi.org/10.1016/j.jece.2025.118562>
- M Ghaedi, R Gholami, S Bellas, **E Stamatakis**, “Evaporation-induced salt precipitation and dry-out evolution during hydrogen storage in geological porous media”, International Journal of Hydrogen Energy 102, 1306-1314 (2025); <https://doi.org/10.1016/j.ijhydene.2025.01.141>
- Chrysoula Tallarou, Anastasios Labropoulos, Stavros Stavropoulos, Nikos Pasadakis, **Emmanuel Stamatakis**, Spyros Bellas, Raof Gholami and Ioannis Yentekakis, “A Combined Experimental and Computational Study on the Effect of the Reactor Configuration and Operational Procedures on Formation, Growth and Dissociation of Carbon Dioxide Hydrate”, Sustainability 16(20), 8854 (2024); <https://doi.org/10.3390/su16208854>.
- Aikaterina Paraskevi Damiri, **Emmanuel Stamatakis**, Spyros Bellas, Manos Zoulias, Georgios Mitkidis, Anestis G. Anastasiadis, Sotiris Karellas, George Tzamalīs, Athanasios Stubos and Theocharis Tsoutsos, “A Review of Alternative Processes for Green Hydrogen Production Focused on Generating Hydrogen from Biomass”, Hydrogen 5(2), 163-184 (2024); <https://doi.org/10.3390/hydrogen5020011>

- Nikolaus Fleischhacker, Niusha Shakibi Nia, Markus Coll, Ewald Perwög, Helmut Schreiner, Andreas Burger, **Emmanuel Stamatakis** and Ernst Fleischhacker, “Austria’s First Regional Green Hydrogen Economy: WIVA P&G HyWest”, *Energies*, 16(9), 3619 (2023); ; <https://doi.org/10.3390/en16093619>.
- Nikolaos Chalkiadakis, **Emmanuel Stamatakis**, Melina Varvayanni, Athanasios Stubos, Georgios Tzamalidis and Theocharis Tsoutsos, “A New Path towards Sustainable Energy Transition: Techno-Economic Feasibility of a Complete Hybrid Small Modular Reactor/Hydrogen (SMR/H₂) Energy System”, *Energies*, 16(17), 6257 (2023); <https://doi.org/10.3390/en16176257>
- Martin Dornheim, et al. “Research and Development on Hydrogen Carrier Based Solutions for Hydrogen Compression and Storage”, *Progress in Energy*, IOP Publishing, 4 042005 (2022); <https://doi.org/10.1088/2516-1083/ac7cb7>
- **Emmanuel Stamatakis**, Ewald Perwög, Ermis Garyfallos, Mercedes Sanz Millán, Emmanuel Zoulias and Nikolaos Chalkiadakis, “Hydrogen in Grid Balancing: The European Market Potential for Pressurized Alkaline Electrolyzers”, *Energies* 2022, 15(2), 637; <https://doi.org/10.3390/en15020637>
- Ioannis N. Tsimpanogiannis, **Emmanuel Stamatakis**, Athanassios K. Stubos, “Study of the Critical Pore Radius That Results in Critical Gas Saturation during Methane Hydrate Dissociation at the Single-Pore Scale: Analytical Solutions for Small Pores and Potential Implications to Methane Production from Geological Media”, *Energies*, 15, 210 (2022); <https://doi.org/10.3390/en15010210>.
- Nikolaos Chalkiadakis, Athanasios Stubos, Emmanuel Zoulias and **Emmanuel Stamatakis**, “Pilot autonomous hybrid hydrogen refueling station utilizing a metal hydride compressor covering local transportation needs”, *E3S Web of Conferences* 334, 06002 (2022); <https://doi.org/10.1051/e3sconf/202233406002>
- Evangelos I. Gkanas, **Emmanuel Stamatakis**, Christodoulos Christodoulou, George Tzamalidis, George Karagiorgis, Alexander Chronos, Navaratnarajah Kuganathan, Martin Khzouz, Athanasios Stubos, “Study on the Operation and Energy Demand of Dual-Stage Metal Hydride Hydrogen Compressors under Effective Thermal Management”, *International Journal of Hydrogen Energy*, 46, 29272-29287 (2021). <https://doi.org/10.1016/j.ijhydene.2021.02.062>.
- Evangelos Boulougouris, Nikoletta Trivyza, Michail Cheliotis, Gerasimos Theotokatos, George Livanos, George Mantalos, Athanasios Stubos, **Emmanuel Stamatakis**, Alexandros Venetsanos, “Review on the safe use of ammonia fuel cells in the maritime industry”, *Energies*, 14, 3023 (2021); <https://doi.org/10.3390/en14113023>
- Evangelos Gkanas, Ahmad El-kharouf, **Emmanuel Stamatakis**, Athanasios Stubos, Martin Khzouz, Calvin D’Souza, Michael Apicella, “Thermal Characteristics of an Air-Cooled Open-Cathode PEM FC Stack via Numerical Investigation”, *International Journal of Energy Research*, 44(14), 11597–11613 (2020). <https://doi.org/10.1002/er.5785>
- Evangelos I. Gkanas, Christodoulos Christodoulou, George Tzamalidis, **Emmanuel Stamatakis**, Konstantinos Deligiannis, George Karagiorgis, Athanasios K. Stubos, “Numerical investigation on the operation and energy demand of a seven-stage metal hydride hydrogen compression system for Hydrogen Refuelling Stations”, *Renewable Energy*, 147-1, 164-178 (2020); <https://doi.org/10.1016/j.renene.2019.08.104>.
- **E. Stamatakis**, A. Yiotis, S. Giannissi, I. Toliadis, A. Stubos, “Modeling and simulation supporting the application of fuel cell & hydrogen technologies”, *Journal of Computational Science*, Volume 27, p.10-20 (2018).
- G. Tzamalidis, E.I. Zoulias, E. **Stamatakis**, O.-S. Parissis, A. Stubos, E. Lois, “Techno-economic analysis of RES & Hydrogen technologies integration in remote island power system”, *International Journal of Hydrogen Energy*, **38**, 11646 – 11654 (2013).
- E. **Stamatakis**, A. Stubos, T. Bjørnstad and J. Müller “Calcite scale prediction at the near-well region: A radiotracer approach”, *EPJ Web of Conferences* **50**, 03004 (2013).
- G. Tzamalidis, E.I. Zoulias, E. **Stamatakis**, E. Varkaraki, E. Lois, “Techno-economic analysis of an Autonomous Power System integrating hydrogen technology as energy storage medium”, *Renewable Energy*, **36**, 118-124 (2011).
- **Stamatakis E.**, Stubos A., Müller J., “Scale prediction in liquid flow through porous media: A geochemical model for the simulation of CaCO₃ precipitation at the near-well region”, *Journal of Geochemical Exploration*, **108**, 115–125 (2011).
- Parissis O., Zoulias E., Stamatakis E., Sioulas K., Alves L., Martins R., Tsikalakis A., Hatzigrygiou, Caralis G., Zervos A., “Integration of wind and hydrogen technologies in the power system of Corvo island, Azores: A cost-benefit analysis”, *International Journal of Hydrogen Energy*, 36/13, 8143-8151 (2011).
- Varkaraki, E., Zoulias, E., **Stamatakis**, E., “Operational experience from the res2h2 wind-hydrogen plant in Greece”, 17th World Hydrogen Energy Conference 2008, WHEC 2008, Volume 1, 2008, Pages 218-221

- Bjørnstad T., **Stamatakis E.**, “Mechanisms of mineral scaling in oil and geothermal wells studied in laboratory experiments by nuclear techniques”, *Czechoslovak Journal of Physics*, Czech Republic, **56/4**, 405-416 (2006).
- **Stamatakis E.**, Chatzichristos C., Stubos A., Palyvos I., Muller J., Stokkan J.-A., “An integrated radiotracer approach for the laboratory evaluation of scale inhibitors performance in geological environments”, *Chemical Engineering Science*, **61**, 7057-7067 (2006).
- **Stamatakis E.**, Haugan A., Chatzichristos C., Stubos A., Muller J., Dugstad Ø., Palyvos I., “Study of calcium carbonate precipitation in the near-well region, using ⁴⁷Ca as tracer”, *SPE Production & Operations*, **21/1**, 33-39 (2006).
- **Stamatakis E.**, Stubos A., Palyvos I., Chatzichristos C., Muller J., “An improved predictive correlation for the induction time of CaCO₃ scale formation during flow in porous media”, *Journal of Colloid and Interface Science*, **286/1**, 7-13 (2005).
- **Stamatakis E.**, Haugan A., Dugstad Ø., Muller J., Chatzichristos C., Bjørnstad T., Palyvos I., “Validation of Radiotracer Technology in Dynamic Scaling Experiments in Porous Media”, *Chemical Engineering Science*, **60/5**, 1363-1370 (2005).
- K. Papadopoulos, J. Lignos, M. **Stamatakis**, D. Dimitikali, J. Nikokavouras, “Radiochemiluminescence of Acridones and Alkyl Acridans”, *J. Photochemistry and Photobiology A: Chemistry*, **115**, 137-142 (1998).

In Conferences

- G Adamopoulos, I Vakalas, S Bellas, S Kokkalas, M Perraki, V Gaganis, **E Stamatakis**, “Initial Assessment of the Sealing Capacity of Caprocks in the Ionian Zone Reservoirs, Greece”, 7th International Conference on Fault and Top Seals, European Association of Geoscientists & Engineers, Sep 2025, p.1-5; <https://doi.org/10.3997/2214-4609.202532011>
- Bellas, S., Trimi, P., Vakalas, I., Gontikaki, E., **Stamatakis, E.**, “Natural Hydrogen Perspectives in Greece”, to be presented during the Premier Natural Hydrogen Worldwide Summit, Paris, November 13-14 2025.
- Elpida Maragozoglou, Simon Poirier, Evina Gontikaki, Spyros Bellas, **Emmanuel Stamatakis**, “Subsurface microbial hydrogen cycling: implications for Underground Hydrogen Storage projects”, 14th FORTH Retreat, Archaia Olympia, 11-13 October 2024
- **Emmanuel Stamatakis** and Ioannis Gentekakis, “Integrated Autonomous Hydrogen Energy Systems – Resilience advantages & humanitarian crises response”, 14th FORTH Retreat, Archaia Olympia, 11-13 October 2024.
- **Emmanuel Stamatakis**, «The Role of Hydrogen and Renewable Gases in Transportation», Hydrogen & green gases Forum, Wyndham Grand Athens, 23 Jun 2023
- Spyridon Bellas, **Emmanuel Stamatakis**, Ioannis Vakalas, “Energy Transition and Evaporitic formations utilization as potential subsurface storage for H₂ and CO₂”, 2nd International Conference on Raw Materials and Circular Economy, 28 Aug - 02 Sep 2023, Athens, Greece
- A.K. Stubos, **E. Stamatakis**, “SHIPFC: A EUROPEAN PROJECT FOR GREEN SHIPPING”, EFC23 European Fuel Cell and Hydrogen 2023 – Capri / Italy– September 13th-15th
- **Emmanuel Stamatakis**, “Twinning Case Study 2 – TWINN2SET, Twinning to Sustainable Energy Transition”, online Workshop on HOW TO PREPARE A SUCCESSFUL PROPOSAL FOR WIDENING ACTIONS (TWINNING AND HOP-ON), 21st July 2023
- **Emmanuel Stamatakis**, “An innovative thermal hydrogen compression system using metal hydrides for transport and stationary applications”, ENERGY in BUILDINGS 2022, ASHRAE Hellenic Chapter, 10 Dec 2022, Athens
- **Emmanuel Stamatakis**, Nikos Pasadakis, Spyros Bellas and Evina Gontikaki, “Hydrogen Storage in Geological Formations – The TWINN2SET project”, 13th FORTH Retreat, Heraklion (2022)
- **Emmanuel Stamatakis**, “Hydrogen for Energy Transition”, 6th Cretan Energy Conference, 1-3 July 2022, Chania, Crete
- **Emmanuel Stamatakis**, “Can Crete become a Hydrogen Valley?”, 5th Cretan Energy Conference, 8-10 July 2021, Hersonissos, Crete
- Evangelos Boulougouris, Michail Cheliotis, Nikoletta Trivyza, Gerasimos Theotokatos, George Livanos, Niki Kalogiratou, George Mantalos, Athanasios Stubos, **Emmanuel Stamatakis**, “ShipFC: Piloting Multi-Mw Ammonia Ship Fuel Cells”, Annual Conference of Marine Technology, Athens, Greece, 02 December 2020
- **Emmanuel Stamatakis**, Emmanuel Zoulias, Christodoulos Christodoulou, George Karagiorgis and Athanasios Stubos, “A non-mechanical high pressure (>350 bar) hydrogen compressor using metal hydrides for Hydrogen Refueling Stations (HRS)”, 1st International Online Conference on: The Traffic Society, 29-31 May 2020.
- Nikolaus Fleischhacker, Ernst Fleischhacker and **Emmanuel Stamatakis**, “Regional Green Hydrogen Economy”, 1st International Online Conference on: The Traffic Society, 29-31 May 2020

- Nikos Chalkiadakis, **Emmanuel Stamatakis**, Manos Zoulias, Theocharis Tsoutsos and Athanasios Stubos, "Hydrogen as an energy carrier and its utilization in the Transport Sector", 1st International Online Conference on: The Traffic Society, 29-31 May 2020.
- Nikos Chalkiadakis, **Emmanuel Stamatakis**, Manos Zoulias, Theocharis Tsoutsos and Athanasios Stubos, "Development of an Autonomous Hybrid RES-H₂ Integrated System for Local Transportation Systems: The H₂TRANS project", 1st International Online Conference on: The Traffic Society, 29-31 May 2020
- Stella G. Giannisi, Ilias C. Tolias, Alexandros G. Venetsanos, **Emmanuel Stamatakis** and Athanasios Stubos, "Safety considerations in the use of hydrogen in transportation sector", 1st International Online Conference on: The Traffic Society, 29-31 May 2020
- Athanasios Stubos, **Emmanuel Stamatakis**, "Hydrogen Research: Production, Storage and Safety", Research in the Energy Sector in Greece, Energy Committee of the Academy of Athens, publisher Academy of Athens, 113 – 118 (2019).
- **E. Stamatakis**, Zoulias, C. Christodoulou, G. Karagiorgis, A. Stubos, "Integration of metal hydride hydrogen compressors in hydrogen refueling stations: Bench-marking & market deployment aspects", 8th European Fuel Cell Technology & Applications Piero Lunghi Conference - EFC19, Napoli, December 11-14, 2019, proceedings, p. 217-218.
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- A. Houaijia, **E. Stamatakis**, T. Stubos, "Solar Electrolysis for Hydrogen Production coupled to a Metal Hydride Hydrogen Compressor", conference paper, the European Fuel Cell forum EFCF, 4-7 July 2017, Lucerne, Switzerland.
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