European PhD Hydrogen Conference

Technical Programme

June 1–3, 2026

Trondheim, Norway

NTNU Gløshaugen Campus

Thank you for the support to our contributors:

Hydrogen Europe Research is an international, non-profit Association representing more than 175 Universities and Research & Technology Organisations across 31 countries in Europe and beyond. We bring together leading scientists, innovators, and institutions committed to advancing clean hydrogen technologies and supporting the decarbonisation of the global economy.

For more than 18 years, Hydrogen Europe Research has been at the forefront of hydrogen and fuel cells research and innovation. Our members cover the entire hydrogen value chain, from production and storage to transport, infrastructures, and end-use applications, contributing to strengthening Europe's scientific leadership and accelerating the development of sustainable hydrogen solutions.

Hydrogen Europe Research is one of the three members of the ***Clean Hydrogen Partnership***, alongside Hydrogen Europe and the European Commission. Through this role, we contribute to shaping the European hydrogen research agenda and we strengthen collaboration between academia, industry, and policymakers.

Our activities are guided by four main pillars: we promote ***research excellence*** through high level scientific collaboration across Europe; we support the scaling of ***infrastructures***, helping research move from laboratory to industrial deployment; we contribute to the development of ***European policies and standards*** for clean hydrogen technologies through research-driven expertise and recommendations; we foster education, training, and ***skills development*** to help prepare the next generation of hydrogen experts.

The Clean Hydrogen Partnership is a unique public-private partnership dedicated to accelerating the development and deployment of clean hydrogen technologies in Europe. Bringing together the European Commission, industry and the research community, the Partnership supports research and innovation across the entire hydrogen value chain — from renewable hydrogen production, storage and distribution to its use in transport, industry, energy systems, buildings and other end-use sectors.

Its mission is to help bring clean hydrogen solutions closer to the market, contributing to Europe's climate neutrality objectives, industrial competitiveness and energy security. By funding collaborative projects, supporting innovation ecosystems and bringing together public and private stakeholders, the Clean Hydrogen Partnership helps bridge the gap between research, demonstration and real-life deployment.

A key focus of its work is the development of integrated hydrogen ecosystems – "Hydrogen Valleys", where production, infrastructure and end-use are connected at regional level. These projects demonstrate how hydrogen can support decarbonisation on the ground, while creating new industrial opportunities, skills and value chains across Europe.

Through its portfolio of projects, strategic coordination and close links with EU policy priorities, the Clean Hydrogen Partnership plays an important role in strengthening Europe's leadership in clean hydrogen technologies and supporting the transition towards a more sustainable, resilient, and competitive economy.

The host of EPHyC 2026:

HYDROGENi is a Centre for Environment-friendly Energy Research (FME), founded by the Research Council of Norway and a consortium of industry and research partners.

HYDROGENi will spearhead research and innovations needed to fulfil the 2030 and 2050 visions of the Norwegian hydrogen roadmap.

The centre's work to build a sustainable hydrogen economy will focus on four main research areas:

- Cost-efficient and scalable production
- Transport and storage in Norway and Europe
- End-use technologies
- Safety and material integrity

In order to realise H2's full potential, there are numerous knowledge and technical gaps that need to be filled. As such, HYDROGENi's activities are a collaborative effort from 48 Norwegian and European partners from both research and industry that cover the entire H2 value chain. In addition, HYDROGENi will have the largest ever academic research programme in an FME, and aims to educate 35 PhD/postdoc students and over 100 MSc/BSc candidates.

We hope you enjoy EPHyC 2026 and your time in Trondheim!

TECHNICAL PROGRAM: DAY 0

SUNDAY, MAY 31	
Time	**Event**
12:30	**Kayaking on Nidelven**
17:00	**Organ concert in Nidarosdomen**
17:45	**Mingling event at Studentersamfundet**

TECHNICAL PROGRAM: DAY 1

MONDAY, JUNE 1				
Time	**EL5**	**EL6**	**Rio 1**	**Rio 2**
08:30	**Registration and Coffee**			
09:00	**Opening Session (EL5)**			
10:00	**Coffee break**			
	Production	**Production**	**Social, Educational and Env.**	**End use**
10:15	**No.1** Proton Exchange Membrane Electrolysis	**No.18** H2 purification	**No.33** Hydrogen value chain development	**No.49** Hydrogen in chemical production and energy generation
10:30	**No.2** Proton Exchange Membrane Electrolysis	**No.19** H2 purification	**No.34** Hydrogen value chain development	**No.50** Hydrogen in chemical production and energy generation
10:45	**No.3** Proton Exchange Membrane Electrolysis	**No.20** H2 purification	**No.35** Hydrogen value chain development	**No.51** Hydrogen in chemical production and energy generation
11:00	**No.4** Proton Exchange Membrane Electrolysis	**No.21** H2 purification	**No.36** Hydrogen value chain development	**No.52** Hydrogen in chemical production and energy generation
11:15	**Coffee break**			
	Production	**Production**	**Social, Educational and Env.**	**Safety**
11:30	**No.5** Proton Exchange Membrane Electrolysis	**No.22** Solar thermochemical, photocatalytic, and biocatalytic synthesis	**No.37** Life Cycle Assessment	**No.53** Safety
11:45	**No.6** Proton Exchange Membrane Electrolysis	**No.23** Solar thermochemical, photocatalytic, and biocatalytic synthesis	**No.38** Life Cycle Assessment	**No.54** Safety
12:00	**No.7** Proton Exchange Membrane Electrolysis	**No.24** Solar thermochemical, photocatalytic, and biocatalytic synthesis	**No.39** Life Cycle Assessment	**No.55** Safety
12:15	**No.9** Proton Exchange Membrane Electrolysis	**No.25** Solar thermochemical, photocatalytic, and biocatalytic synthesis	**No.40** Life Cycle Assessment	**No.56** Safety
12:30		**No.26** Solar thermochemical, photocatalytic, and biocatalytic synthesis	**No.41** Life Cycle Assessment	**No.57** Safety
12:45	**Lunch**			
	Production	**End Use**	**Policies and economics**	**Transport and storage**
13:45	**No.11** Proton Exchange Membrane Electrolysis	**No.29** Fuel Cells	**No.42** Techno-economic analysis	**No.58** Metal hydrides
14:00	**No.12** Proton Exchange Membrane Electrolysis	**No.30** Fuel Cells	**No.44** Techno-economic analysis	**No.59** Metal hydrides
14:15	**No.123** Proton Exchange Membrane Electrolysis	**No.81** Fuel Cells	**No.31** Techno-economic analysis	**No.60** Metal hydrides
14:30				**No.61** Metal hydrides
14:45	**Coffee break**			
	Production		**Policies and economics**	**Transport and storage**
15:00	**No.14** Carbon based hydrogen sources		**No.46** Cost analysis	**No.63** Metal hydrides
15:15	**No.15** Carbon based hydrogen sources		**No.47** Cost analysis	**No.64** Metal hydrides
15:30	**No.16** Carbon based hydrogen sources		**No.48** Cost analysis	
15:45				
16:00	**Explore Trondheim**			

TECHNICAL PROGRAM: DAY 2

TUESDAY, JUNE 2				
Time	**EL5**	**EL6**	**Rio 1**	**Rio 2**
08:00	**Morning Coffee**			
	Production	**End use**	**Transport and storage**	**Hydrogen derivatives**
08:30	**No.65** Anion Exchange Membrane Electrolysis	**No.82** Proton-Exchange Membrane Fuel Cells	**No.94** Hydrogen embrittlement	**No.109** Ammonia
08:45	**No.66** Anion Exchange Membrane Electrolysis	**No.83** Proton-Exchange Membrane Fuel Cells	**No.95** Hydrogen embrittlement	**No.110** Ammonia
09:00	**No.67** Anion Exchange Membrane Electrolysis	**No.85** Proton-Exchange Membrane Fuel Cells	**No.96** Hydrogen embrittlement	**No.111** Ammonia
09:15	**No.68** Anion Exchange Membrane Electrolysis	**No.86** Proton-Exchange Membrane Fuel Cells	**No.97** Hydrogen embrittlement	**No.112** Ammonia
09:30	**No.69** Anion Exchange Membrane Electrolysis	**No.87** Proton-Exchange Membrane Fuel Cells	**No.98** Hydrogen embrittlement	**No.13** Social impact and regulations
09:45	**Coffee break**			
	Production	**End use**	**Transport and storage**	**Policies and economics**
10:00	**No.70** Anion Exchange Membrane Electrolysis	**No.89** Proton-Exchange Membrane Fuel Cells	**No.99** Hydrogen embrittlement	**No.113** Social impact and regulations
10:15	**No.71** Anion Exchange Membrane Electrolysis	**No.90** Proton-Exchange Membrane Fuel Cells	**No.100** Hydrogen embrittlement	**No.114** Social impact and regulations
10:30	**No.72** Anion Exchange Membrane Electrolysis	**No.91** Proton-Exchange Membrane Fuel Cells	**No.101** Hydrogen pipelines and storage tanks	**No.115** Social impact and regulations
10:45	**No.73** Anion Exchange Membrane Electrolysis	**No.92** Proton-Exchange Membrane Fuel Cells	**No.102** Hydrogen pipelines and storage tanks	**No.116** Social impact and regulations
11:00	**No.74** Anion Exchange Membrane Electrolysis	**No.93** Proton-Exchange Membrane Fuel Cells	**No.103** Hydrogen pipelines and storage tanks	**No.117** Social impact and regulationss
11:15	**Coffee break**			
	Production		**Transport and storage**	**Policies and economics**
11:30	**No.75** Solid Oxide Electrolyzer Cells	**No.10** Modelling	**No.104** Hydrogen pipelines and storage tanks	**No.118** Hydrogen system integration
11:45	**No.76** Solid Oxide Electrolyzer Cells	**No.62** Modelling	**No.105** Hydrogen pipelines and storage tanks	**No.119** Hydrogen system integration
12:00	**No.77** Solid Oxide Electrolyzer Cells		**No.106** Hydrogen pipelines and storage tanks	**No.120** Hydrogen system integration
12:15	**No.78** Solid Oxide Electrolyzer Cells		**No.107** Hydrogen pipelines and storage tanks	**No.121** Hydrogen system integration
12:30	**No.79** Solid Oxide Electrolyzer Cells		**No.108** Hydrogen pipelines and storage tanks	**No.122** Hydrogen system integration
12:45	**Lunch**			
14:00	**Excursion**			
16:00	**End day**			
19:00	**Midnight Sun Party**			

TECHNICAL PROGRAM: DAY 3

WEDNESDAY, JUNE 3				
Time	**EL5**	**EL6**	**EL3**	
08:30	**Morning Coffee**			
09:00	**Plenary opening session – H2 Science (EL5)**			
10:40	**Coffee break**			
	Production	**Policies and economics**	**Hydrogen derivatives**	
11:00	**No.125** Alkaline Water Electrolysis	**No.127** Hydrogen legal regulation and policy	**No.131** Chemical hydrogen storage	
11:15	**No.126** Alkaline Water Electrolysis	**No.128** Hydrogen legal regulation and policy	**No.132** Chemical hydrogen storage	
11:30	**No.27** Alkaline Water Electrolysis	**No.130** Hydrogen legal regulation and policy	**No.133** Chemical hydrogen storage	
11:45	**No.28** Alkaline Water Electrolysis			
12:00	**Poster session**			
13:00	**Lunch**			
14:00	**Closing session (EL5)**			
14:35	**End day**			

POSTER SESSION

WEDNESDAY, 12:00–13:00	
POSTER SESSION	
P-01	**Correlation of degradation effects on Bipolar plate coatings and local operation conditions in PEMWE** Michael Liebert
P-02	**Development of a continuous inline laser welding process for graphite-based composite materials in fuel cells and electrolysis** Dennis Tonder
P-03	**Safety-Aware Model Predictive Control of PEM Water Electrolysis Systems under Varying Hydrogen Demand** Marius Fredriksen
P-04	**Integrated Modelling and Engineering of a High-Temperature SOEC System for Thermomanagement and Operational Stability** Julian Gruber
P-05	**Integration of Solid Oxide Electrolysis with Small Modular Nuclear Reactors** Stefano Marini
P-06	**New Horizon for Metal Hydride-Based Electrodes: Hydrogen Generation** Federico Mandrioli
P-07	**Conductive HHTP Based MOF Thin Films as High Performance Electrocatalysts for Ammonia Oxidation** Ayaz Ahmad
P-08	**Hydrogen production from biomass through gasification, catalytic reforming, and electrolysis** Umberto Calice
P-09	**CO_2 hydrogenation to methanol over a UiO-66-stabilized Ir(III) molecular catalyst** Sahra Ahmed
P-10	**A Novel High-Pressure Hydrogen Gas Cell for Operando Optical Spectroscopy** David Abejón Arribas
P-11	**Hydrogen as a functional alloying element in 316L austenitic stainless steel: comparative and sequential charging approaches** Hanna Yang
P-12	**Study of Magnetic and Structural Properties of $Ho_{1-x}Nd_xVO_3$ for Hydrogen Liquefaction** Josef Kosler
P-13	**Recent Advances in Computational Methods for Metal Hydrides and Hydrogen Storage Alloys** Timo Ristiluoma
P-14	**Spatially-Aware Integrated Power and Hydrogen Capacity Expansion Model** Reza Fardi Asrami
P-15	**Comparison of Two Predictive Control Structures for Alkaline Water Electrolyzers with Uncertain Parameters** Nicolas Dobler

PRESENTATION LIST

ORAL PRESENTATIONS	
Presentation List	
No.1	**Hydrothermal synthesis of iridium nanostructures for proton exchange membrane water electrolysers** Alexandra Brochoire
No.2	**Low-loading iridium-based catalyst supported on modified titania for oxygen evolution reaction in PEM water electrolysers** Josep Boter Carbonell
No.3	**System-Level Optimization of Efficiency and Durability in MW-Scale PEM Electrolysis** Samuel Pernsteiner
No.4	**The effect of pH on the dissolution of IrO_2 during the oxygen evolution reaction** Øyvind Lindgård
No.5	**Contact Pressure Analysis in PEM Water Electrolyzer Cells** Moritz Stahl
No.6	**Laser processing of polymer-based materials** Bianca Sorvillo
No.7	**Ti-based coatings on stainless steel substrates for bipolar plates under PEMWE environment** Andrés Llorens Pastor
No.9	**Optimization of Electrodes for Electrochemical Hydrogen Pumps** Carla Marchfelder
No.10	**Advanced model tool (AI-based, ROM, ML, etc.) for improving performance on electrolysis cell and stack** Marco Tomazzolli
No.11	**Control Strategy for PEM Electrolyser Based Microgrid** Saeed Alharthy
No.12	**Impact Assessment of Degradation on the Sizing of Autonomous PEM Electrolysers Powered by Photovoltaic Systems** Petros Polykarpoulos
No.13	**Development of a MILP optimization framework for the management of an industrial-scale hydrogen production plant** Federico Del Mondo
No.14	**Natural gas as a bridge to sustainability: A scenario-based energy system modelling of Senegal** Katia D. S. Gomes
No.15	**Grid-aware planning of PtX in an industrial cluster** Armin Mohseni Ardehali
No.16	**Simulation of Green Hydrogen Production from Biomass Using Microwave Plasma Gasification** Esther Mgbemeje
No.17	
No.18	**Pressure Swing Adsorption for Hydrogen Purification in Plasma Pyrolysis of Methane** Wackwella Gamage Ashika Dilshani
No.19	**Electrochemical Optimization of Electroless Plating for Pd–Ag Membrane Fabrication for High-Purity Hydrogen Separation** Lydia Alonso
No.20	**Role of ceramic intermediate barriers on Electroless Pore-Plated Pd membranes** Nagore Acha
No.21	**Pd-based Membranes for Hydrogen Purification to Enable Membrane-Enhanced Ammonia Cracking** Willow Dew
No.22	**Optical characterization of redox materials at high temperatures in reactors for solar-thermochemical hydrogen production** Hanna Lina Pleteit
No.23	**Mechanistic Insight into $Bi_4Ti_3O_{12}$ to $ATiO_3$ (A = Sr or Ba) Transformation: Tailored 2D $ATiO_3$ Nanoplatelets with potential for Photocatalytic H_2 Evolution** Subhashis Rooj
No.24	**Unzipping of elongated carbon nitride structures during Pt/Cr2O3 photodeposition into nanosheets with better co-catalyst distribution for photocatalytic water splitting** David Simon-Garcia
No.25	**Development of a Stand-Alone Photoelectrochemical System with an Integrated Photovoltaic Cell for Green Hydrogen Production** Sarah Holler
No.26	**Development of Resilient Biocatalysts for Hydrogen Production: Engineering [FeFe]-Hydrogenases to Enhance Oxygen Tolerance** Lisa Barbieri
No.27	**Euler-Lagrangian modeling and analysis of hydrogen bubbly flow behavior in alkaline water electrolysis system** Andi Li

ORAL PRESENTATIONS – continued	
No.28	**Comparative Analysis of Bubble Dynamics and Electrochemical Performance of NiCo-LDH Catalysts Prepared via Diverse Deposition Techniques** Vinh Nguyen
No.29	**A Pathway for the Replacement Analysis of Hydrogen Fuel Cell Technology in Ferry Operations: Enhancing Sustainability in the Maritime Sector** Mahmoud Ahmed
No.30	**Accelerated Stress Testing of Fuel Cells for Maritime Applications** Umesh Anirudh Andaluri
No.31	**Techno-Economic Assessment of Hydrogen and Hydrogen-Derived Fuels for Maritime Applications** Friederike Fontes
No.32	
No.33	**Barriers to Green Hydrogen adoption in a European market: Insights from the experts** Ilaria Goglia
No.34	**Toward Sustainable Industrial Path Development: Green Hydrogen Transitions in Structurally Diverse Regions** Lars Lüder
No.35	**The Carbon Break-Even Point for Hydrogen in Industrial Decarbonisation** Purnima Jayawardhana Pathiranage
No.36	**From Scrap to Storage: Life Cycle and Circularity Assessment of $TiFe_{0.80}X_{0.20}$ Alloys for Hydrogen Storage** Francesca Garelli
No.37	**Regionalized Life Cycle Assessment of Power-to-Methanol** Ehsan Nemati
No.38	**Life cycle sustainability assessment of sustainable-by-design product concepts of a PEMFC stack** Jure Gramc
No.39	**Green Hydrogen Production in Arid Regions: A Life Cycle Assessment of DAC-SOEC Integrated System** Jacqueline Lorenz
No.40	**Life Cycle Assessment of the Core Hydrogen Pathway in an Integrated 20 kW Energy System: Electrolyzer–Battery–Fuel Cell** Satya Sai Rahul Gudivada
No.41	**Life Cycle Assessment of a Proton Exchange Membrane Electrolyzer for the production of green hydrogen** Sari Alfreijat
No.42	**Techno-Economic Analysis of Earth-Abundant Electrocatalysts in PEM Hydrogen Production** Talia Moonsamy
No.43	
No.44	**Techno-economic analysis of PtX technologies and their integration into microgrids** Marian Garcia
No.45	
No.46	**Connecting Europe Through Hydrogen: Cost Allocation Analysis of Cross-Border Pipeline Coalitions under Varying Subsidy Policies** Emmanuel Kwesi Arthur
No.47	**Total Cost of Ownership Assessment of Hydrogen-Powered Ro-Ro Heavy-Duty Vehicles in Port Logistics** Alessia Piccolo
No.48	**Investigation of economical electrolysis operation based on the business case of electrified gasification systems** Laura Thiel
No.49	**Enhancing Hydrogen Reduction of Nano Iron Oxide via Metal Doping: A Morphological Study** Saeid Khesali Azadi
No.50	**Tracking Phase Transformations in Iron Ore During Hydrogen Reduction by In Situ Synchrotron X-Ray Diffraction** Yuzhao Wang
No.51	**Alginate Derived Fe-Catalysts for Green Fuel Production via CO_2 Hydrogenation using the In-Situ Mass Analyzer** Mei Ju Goemans
No.52	**Investigation of a hydrogen internal combustion expander for integration with heating and cooling systems** Thomas Dalberto
No.53	**Liquid Hydrogen Bunkering Solutions for Ships: a Safety Comparison** Elia Russian
No.54	**Hazard scenarios in novel design concepts for liquid hydrogen storage** Corinna Borsato
No.55	**Systemic Risk and Safety of Emerging Energy Technologies** Ivan De Fazio
No.56	**CFD Study of Hydrogen Accumulation and Stratification in a Stationary Ni–Cd Battery Room** Muchen Zhang

ORAL PRESENTATIONS – continued	
No.57	**Insights into liquid hydrogen pool dynamics: from spreading to vaporization** Davide Rescigno
No.58	**A TiFe - based alloy for sustainable future: REMEDHYS project bridging laboratory innovation and industrial application** Alessandra Nico
No.59	**GPPS- Metal Hydride Pellets with Carbon Black Addition for Hydrogen Storage** Valentina Fiume
No.60	**Hydrogen Storage System for Autonomous-Underwater Vehicles Powered by Fuel Cell with Artificial Gill System** Abdullah Al-Ismail
No.61	**Metal Hydride H_2 Compression – Cost assessment by Heat Sources** Christian Höß
No.62	**Modeling the Effect of Metal Hydride Pelletisation on Thermal Management of Storage/Compression Vessels** Evans Pericoli
No.63	**Hydrogen as a heat exchange fluid in metal hydrides: Impact of reactor geometry with different hydrides** Ferdinando Vincenti
No.64	**Tailoring the Microstructure for Hydrogen Storage: Processing Strategies and Phase Stability in the Ti-Zr-V-Nb-Fe Refractory High Entropy Alloy** Claudia Álvarez González
No.65	**AEMWE Cell Degradation Study: Behavior of Polarization Curve and High Frequency Resistance** Sepanta Dokhani
No.66	**Alkali doped electrospun polybenzimidazole membranes for anion exchange membrane water electrolysis** Davide Principe
No.67	**Performance Evaluation of Fumion®-Activated Electrospun Polysulfone Anion Exchange Membranes for Water Electrolysis** Ottavio Longo
No.68	**Tri-metallic transition-metal boride catalysts for anion-exchange membrane water electrolysis** Joyal Johny
No.69	**Ni-S-Based Catalysts for PGM-Free Anion Exchange Membrane Electrolysis** Miriam Hesse
No.70	**Degradation of Anion Exchange Membrane Water Electrolysis Membrane Electrode Assemblies under Intermittent Operation** Florian de Pauli
No.71	**High Entropy Metal Oxides as electrocatalysts for low-grade water splitting** Praveen Kumar Selvam
No.72	**Back Diffusion of OH- Ions During Hydrogen Production in Half Seawater Electrolyzer** Paolo Gardiol
No.73	**DFT-Guided Screening and Experimental Validation of Ionic Liquids for Enhanced AEM Water Electrolysis** Fehad Khan
No.74	**Advanced perovskite-based catalysts for green hydrogen production in AEMWE** Miryam Gulino
No.75	**Modelling Framework for Long-Term Operation of SOE Co-Electrolysis Systems** Stefan Beringer
No.76	**Implementation of novel ceramic materials in reversible solid oxide cells (r-SOC)** Kandela Ruiz Lorenzo
No.77	**Development of La2Ni$O_{4+\delta}$-Based Oxygen Electrodes for SOEC via Ultrasonic Spray Pyrolysis** Alessa Scheuch
No.78	**Development of air electrode architectures for reversible solid oxide cells** Niklas Mayr
No.79	**Upscaling of SOE stack production: a focus on materials, design, and manufacturing of interconnects and sealants** Miguel Fantova Sarasa
No.80	
No.81	**Effect of sintering sequence on SOFC microstructure and electrical properties** Žiga Bertalani
No.82	**Freeze damage in PEMFC for heavy-duty applications and strategies for safe use at subfreezing temperatures** Ricarda Sophie Scheich
No.83	**Practical exploration of reconstructed EIS on a commercial open-cathode PEMFC** Robbe Nuyttens
No.84	
No.85	**Investigating the impact of freeze-thaw cycling on PEMFC core components and their interfaces stability** Léna Rigny

ORAL PRESENTATIONS – continued	
No.86	**Precise Humidification via Water Content Control to Enable Closed Water Balance and Dynamic Testing in PEMFC** Johanna Lützenkirchen
No.87	**Why constant reformate testing is not enough: Impurity dynamics and degradation in HT-PEMFCs coupled with methanol steam reformers** Emilija Todorovski
No.88	
No.89	**High-throughput evaluation of PEMFC catalyst degradation using multi-channel potentiostatic control** Amina Alimbekova
No.90	**Development of a reaction kinetic degradation model for real-time state of health prediction of PEM fuel cells in heavy-duty applications** Florian Dennewitz
No.91	**Development of Membrane Electrode Assembly with Modified Nanofiber Structure** Muhammad Yusro
No.92	**Experimental insights into mechanically and thermally driven start–stop degradation of high-temperature PEM fuel cells** Filip Todorovski
No.93	**Extending PEMFC Lifetime: A Condition-Based End-of-First-Life Definition to Enhance Circularity** Gergő Horváth
No.94	**Comparative Study of Hydrogen Trapping Mechanisms in 316L and 316Ti Under Electrochemical and Thermal Charging** Loini Magano Kalipi
No.95	**Stress analysis of internally pressurized hollow specimens made of 316L stainless steel** Linus Angula
No.96	**Electron Microscopy Investigation of AM316L before and after Heat Treatment: Implications for Hydrogen Diffusion** Gabriele Palazzo
No.97	**Towards predicting experimental diffusion coefficients from first principles: A combined DFT + kMC study on H permeation through alloyed steel surfaces** Lukas Meier
No.98	**Effects of grain boundaries on hydrogen diffusion and trapping in nickel-based alloys** Cornelius Constant-Piot
No.99	**Assessment of the influence of hydrogen and microstructure on the fatigue behavior of duplex steels** Wenting Zhao
No.100	**Physics-Based Lifetime Prediction of Pipeline Steels and Welds for Hydrogen Service** Sreehari Vishnu Padmajan
No.101	**Variable-conductance vacuum thermal insulation based on reversible hydrogen uptake and release** Ardita Kurtishaj Hamzaj
No.102	**Modelling approach for system analysis and thermodynamic optimization using energy and exergy balancing** Kira Ohlinger
No.103	**Benchmarking of Novel Insulation Concepts for Liquid Hydrogen Storage Tanks** Anna Piazzi
No.104	**Study, Modeling, and Computing of Pressure Losses in Gaseous Hydrogen Pipelines** Akshay Bambore
No.105	**Hydrogen Blending: Building Models for Gas Network Transition** Michele Francesconi
No.106	**Validation of a CFD model for blending gases in a pipe** Cui Shiqi
No.107	**Experimental and Numerical Investigation of Sloshing in Horizontal Cylindrical Tanks for Liquid Hydrogen Aircraft** Ignacio Sánchez-Ojeda
No.108	**Gas temperature behaviour in Type IV hydrogen tanks during defueling** Lukas Willmeroth
No.109	**Assessing Ammonia Role in Hydrogen-Based Renewable Energy Systems through Integrated Modelling** Valentina Veltroni
No.110	**Molybdenum nitride catalysts for low temperature ammonia decomposition** Sahra Louise Guldahl-Ibouder
No.111	**Laboratory Study of a Liquid-Fed Direct Ammonia Fuel Cell – a Viable Alternative to Hydrogen?** Rupert Martin Bachler
No.112	**NiB-modified non-Nobel-metal for electrocatalytic ammonia oxidation reaction** Hassan Afaq
No.113	**Developing the rural hydrogen economy through the key social values of Hydrogen acceptance in farming communities** William Baker
No.114	**Analysis of decarbonization scenarios for remote and off-grid communities in Northern Canada** Omar Najoui

ORAL PRESENTATIONS – continued	
No.115	**How would the use of green hydrogen impact fuel poverty in the United Kingdom?** Joseph Walton
No.116	**Electrolysers as Grid-Flexibility Assets: Technical Capabilities and Regulatory Requirements** Nadine Weber
No.117	**Hydrogen in aviation: windows opening for niche innovations?** Karoline Rustad Grebstad
No.118	**A framework for strategic and operational planning of Wind-Hydrogen Systems for enhanced energy utilization** Artur Zarske
No.119	**Evaluating Variation Management Strategies for Offshore Wind: Hydrogen Storage vs Electricity Trade** Kumail Marnate
No.120	**Operational Impacts of Hydrogen Integration in Electricity Systems: A NLP Multi-Energy Modeling Approach** Mattia Calabrese
No.121	**Reversible Cell Systems in the Energy Transition: A Comparative Assessment of Their Potential for Renewable Integration** Marco Russo Cirillo
No.122	**Hydrogen Supply Chain Networks and Ecosystems: Current Perspectives and Future Research Avenues** Emma Mulhern
No.123	**Comparative Study of Electrodeposited Ni- and Co-Based Phosphides for Hydrogen Evolution Reaction in Acidic and Alkaline Media** Anna Giulia Cardone
No.124	
No.125	**Porous polymeric separator materials for intermediatetemperature alkaline water electrolysis** Rubab Zahra
No.126	**Waste Heat Valorization of an industrial scale electrolysis system through ORC technology** Nikolaos Skordoulias
No.127	**Legal Frameworks for Sustainable Energy Storage: The Governance of Hydrogen and Pumped Storage Hydropower in the Transition to a Fossil-Free Society** Susanne Riekkola
No.128	**Hydrogen Harbours: Comparing German and French Regulation of Hydrogen-Based Fuel Bunkering in Ports** Kelsey Pailman
No.129	
No.130	**Policy uncertainties and technical hurdles in hydrogen adoption: A Multi-Level Perspective (MLP) on German SMEs** Philipp Schroer Genannt Fleutert
No.131	**Investigation of catalyst anodic structures for SO_2 Depolarised Electrolysis for Hydrogen Production** Maria Antonietta Lopardo
No.132	**Hydrodynamics and Axial Dispersion Effects in Toluene Hydrogenation over Pt/Al_2O_3 in a Trickle-Bed Reactor** Muhammad Usama Daud
No.133	**Study of Bimetallic Amidoboranes for Solid-State Hydrogen Storage** Matthias Jollain