

The Future of Hydrogen: Science, Applications and Energy Transition (H2Future26)

Ibiza, Spain, 2026 April 27th - 30th

Conference organizers: Víctor A. de la Peña O'Shea, Francisco Fabregat-Santiago and
Sophia Haussener

Conference Program

April 27th - Day 1 (Monday) 1

10:15 - 11:15 **Registration**

11:15 - 11:30 **Opening #H2Future**

Session 1.1 Future of H2 Science.

Chair: Sixto Gimenez Julia

11:30 - 11:40 Sixto Gimenez (*Universitat Jaume I, Institute of Advanced Materials (INAM)*)

Science.-IS1 Opening session Future of H2 Science

11:40 - 11:50 James Durrant (*Department of Chemistry, University of Oxford, 12 Mansfield Road, Oxford, OX1 3TA, UK*)

Science.-I1 Opportunities and Challenges for the development of photoelectrochemical and photocatalytic routes to green hydrogen: a photochemist's viewpoint

11:50 - 12:00 Pau Farras (*School of Biological and Chemical Sciences, Energy Research Cluster, Ryan Institute, University of Galway*)

Science.-I2 Engineering selective oxygen anodes for low-grade water splitting

12:00 - 12:10 Adélio Mendes (*LEPABE-FEUP*)

Science.-I3 Green Hydrogen: Beyond the EU Vision

12:10 - 12:20 Ifan Stephens (*Department of Materials, Imperial College London, Exhibition Road, London, SW7 2AZ.*)

Science.-I4 Probing trends in oxygen evolution on model ruthenium and iridium oxide surfaces

12:20 - 13:20 Discussion

April 28th - Day 2 (Tuesday) 2

Session 2.1 #H2Future

Chair: Francisco Fabregat-Santiago

09:00 - 09:25 Hermenegildo García (*Universitat Politècnica València*)

#H2Future-I1 MXenes as Electro- and Photocatalysts for Hydrogen Evolution

09:25 - 09:50 Jose Mata (*Institute of Advanced Materials (INAM), Univesitat Jaume I, 12071, Castellón, Spain*)

#H2Future-I2 ELECTROCATALYTIC HYDROGEN STORAGE FOR ENHANCING THE EFFICIENCY OF LIQUID ORGANIC HYDROGEN CARRIERS

09:50 - 10:15 David Tilley (*Department of Chemistry, University of Zurich, Zurich 8057, Switzerland*)

#H2Future-I3 Cuprous Oxide for Solar-Driven Chemistry

10:15 - 10:40 Duncan Atkins (*Institute Laue Langevin*)

#H2Future-I4 How ReMade@ARI can provide R&D with free access Europe's most advanced Research Infrastructures

10:40 - 11:05 Teresa Andreu (*Departament de Ciència de Materials i Química Física. Universitat de Barcelona. Martí i Franquès, 1. 08028-Barcelona*)

Electro and Photoelectrocatalytic Strategies for Glycerol Oxidation

April 29th - Day 3 (Wednesday) 3

Session 3.1 Future of H2 Industry

Chair: Júlia Viladoms Claverol

- 09:00 - 09:10 Júlia Viladoms Claverol (*Institute of Chemical Research of Catalonia (ICIQ) (ES)*)
Industry-IS1 Opening session Future of H2 Industry
- 09:10 - 09:20 Francesc Lleches (*IDELAB Ingenieria*)
Industry-I1 Safety in Hydrogen Facilities: A Key Factor for the Sector's Sustainable Development
- 09:20 - 09:30 Carlos Andrés Girón Rodríguez (*MOEVE*)
Industry-I2 Transforming Green Hydrogen Ambition into Industrial Reality
- 09:30 - 09:40 Jordan Bellatreche (*Sohhytec*)
Industry-I3 TBD
- 09:40 - 09:50 Carlos Sanz Senon (*Matteco Team S.L., Carrer de Les Noves Tecnologies, 6, 46980 Paterna, Valencia, Spain*)
Industry-I4 Green Hydrogen challenges and Matteco position
- 09:50 - 10:00 Luis Sacristan Moraga (*H2 greem*)
Industry-I5 TBD
- 10:00 - 11:00 Discussion
- 11:00 - 11:30 **Coffee Break**

Session 3.2 #H2Future

Chair: Víctor A. de la Peña O'Shea

- 11:30 - 11:55 Miguel García-Tecedor (*Photoactivated Processes Unit, IMDEA Energy Institute. Avda. Ramón de la Sagra, 3, 28935 Móstoles (Madrid) Spain*)
#H2Future-I1 Disentangling the Role of Ag-Based Nanocorals as Efficient Cocatalyst over CuBi2O4 Photocathodes Toward Hydrogen Evolution Reaction
- 11:55 - 12:20 Diego Mateo (*King Abdullah University of Science and Technology, Thuwal, Saudi Arabia.*)
#H2Future-I2 Photo-thermal ammonia decomposition for sustainable hydrogen production
- 12:20 - 12:45 Júlia Viladoms Claverol (*Institute of Chemical Research of Catalonia (ICIQ)*)
#H2Future-I3 Mobile CCU pilot plants as experimental platforms for industrial decarbonization
- 12:45 - 12:55 Carmen Mejuto (*Institute of Advanced Materials (INAM), Jaume I University, 12071 Castelló, Spain.*)
#H2Future-T1 Electrochemical Strategies for Low-Cost Hydrogen Production
- 12:55 - 13:05 Igor Siretanu (*Physics of Complex Fluids Group and MESA+ Institute, Faculty of Science and Technology, University of Twente, PO Box 217, 7500 AE Enschede, The Netherlands*)
#H2Future-T2 Nanometer-resolved Operando Photo-Response of Faceted BiVO4 Semiconductor Nanoparticles
- 13:05 - 13:15 Seyed Mohammad Shojaei (*Trinity College Dublin*)
#H2Future-T3 Navigating the Offtake Tension: A Decision Analytic Framework for Evaluating Green Hydrogen as a Strategic Route to Market for Offshore Wind

April 30th - Day 4 (Thursday) 4

Session 4.1 H2 Policies & initiatives

Chair: Sophia Haussener

09:00 - 09:10 Sophia Haussener (*Ecole Polytechnique Federale de Lausanne (EPFL)*)

initiatives-IS1 Opening session H2 Policies & initiatives

09:10 - 09:20 Frédéric Chandezon (*Université Grenoble Alpes, CEA, LITEN, DEHT, L2PC 17 rue des Martyrs, Grenoble, France*)

initiatives-I1 SUNERGY: a European initiative on fossil-free fuels and chemicals for a climate neutral Europe

09:20 - 09:30 Emilio Nieto Gallego (*Centro Nacional del Hidrógeno*)

initiatives-I2 The Role of Hydrogen in Spain's Energy Transition: Policies, Projects, and Challenges

09:30 - 09:40 Maria Pilar Gonzalez Gotor (*CDTI, E.P.E.*)

initiatives-I3 How to finance R&D Hydrogen projects

09:40 - 10:40 Discussion

10:40 - 11:10 **Coffee Break**

Session 4.2 #H2Future

Chair: Jose Mata

11:10 - 11:35 María Escudero-Escribano (*Catalan Institute of Nanoscience and Nanotechnology, ICN2, CSIC and The Barcelona Institute of Science and Technology (BIST) Campus UAB, Bellaterra, Barcelona, Spain.*)

#H2Future-I1 Electrochemical Interfaces in Oxygen Electrocatalysis: Implications for Green Hydrogen and Beyond

11:35 - 12:00 Ernest Pastor (*CNRS- Centre national de la recherche scientifique*)

#H2Future-I2 Dynamical control of catalytic mechanisms on oxide surfaces.

12:00 - 12:25 Max García-Melchor (*CIC energiGUNE, Parque Tecnológico, C/Albert Einstein 48, 01510 Vitoria-Gasteiz, Spain*)

#H2Future-I3 Mechanistic and Data-Driven Design of Catalysts for Hydrogen Production and Utilization

12:25 - 12:35 Iván Sorribes (*Institute of Advanced Materials (INAM), Univesitat Jaume I, 12071, Castellón, Spain*)

#H2Future-T1 Electrochemical and Photocatalytic Hydrogen Evolution Reaction Driven by Molecularly Engineered Molybdenum Sulfide Nanomaterials

12:35 - 12:45 Camilo A. Mesa (*Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and, Barcelona Institute of Science and Technology, UAB Campus, 08193 Bellaterra, Barcelona, Spain*)

#H2Future-T2 In-situ Mechanistic Characterisation of Chiral Ni-based Catalysts for Water Splitting

12:45 - 12:55 Aliki Gerakianaki (*Institute Laue Langevin*)

#H2Future-T3 Neutron Insights into Hydrogen Dynamics in Defect-Engineered MoS₂ for Sustainable Hydrogen Production

12:55 - 13:05 **Closing #H2Future**