

List of accepted abstracts

Hydrogen Strategies and Policies

Arno A. Evers	SCENARIOS AND STRATEGIES LEADING TO THE WORLDWIDE COMMERCIALISATION OF HYDROGEN AND FUEL CELLS
Antonio Valdes	ALTERNATIVES FOR HYDROGEN PRODUCTION FROM THE CANE SUGAR INDUSTRY
Fabrizio Zuccari; Adriano Santiangeli; Paola Artuso; Fabio Orecchini	ENERGY SOLUTIONS FOR SPORTS FACILITIES
Cristian Lanfranconi	ENERGY TAXATION POLICY IN THE EUROPEAN UNION: THE HYDROGEN CASE
Eduardo Velasco Orosco	SUSTAINABLE MOBILITY FOR 2050
I. Garrucho, E. Gómez, I. Nuez, L. Segura, A. Gómez	PLANNING FOR THE IMPLEMENTATION OF THE HYDROGEN ECONOMY IN THE MACARONESIA: STATIONARY APPLICATIONS IN LA GRACIOSA ISLAND
José Celis Alarcón, Luis Carlos Pérez, Eduardo Berúmen, Rafael Rangel, Jose Luis Escamilla	CLEAN DEVELOPMENT MECHANISM (CDM) AS A FINANCIAL RESOURCE FOR HYDROGEN PROJECTS
Laurentiu Fara, Jim Hopwood, Graham Spinks, Anne Rennie, Marc Timmer, Sabina Scarpellini, Silvian Fara	NEW TRAINING TOOLS IN RENEWABLE ENERGY AND ENERGY EFFICIENCY FOR SMES AND LAS
G. Arriaga, J.L. Duran, M. A. Smit, Gerardo Contreras-Puente, Rosa G. González-Huerta, Gabriel Alonso and Y. Verde	PERSPECTIVES OF RENEWABLE ENERGY UTILIZATION FOR HYDROGEN PRODUCTION IN QUINTANA ROO
G. Girardi, A. Calabrò, P. Deiana, P. Fiorini, S. Stendardo	PROSPECTS FOR CLEAN COAL TECHNOLOGIES IN PRODUCTION OF ELECTRICITY AND HYDROGEN - A PICTURE OF THE ITALIAN SITUATION
D. Nevoso, S. Freni, G. Cacciola	CNR ITAE'S HYDROGEN TECHNOLOGIES TEST FACILITIES: ADVANCED SYSTEMS AND ENGINEERING SOLUTIONS FOR THE DEVELOPMENT OF INNOVATIVE DEVICES AIMED TO CLEAN ENERGY PRODUCTION

Hydrogen Production

Ghazi A. Karim and I.Wierzba	THE PRODUCTION OF HYDROGEN THROUGH THE PARTIAL OXIDATION OF METHANE IN AN INTERNAL COMBUSTION ENGINE
A Rajagopal, B. A. Peppley, J.C. Amphlett	HYDROGEN PRODUCTION VIA THE STEAM REFORMING OF NATURAL GAS OVER NIAL-LDH DERIVED CATALYSTS
Jasbir Kaur Anand and Ricky Gujral	HYDROGEN FROM ALUMINUM DE-PASSIVATION
Jasbir Kaur Anand and Ricky Gujral	ON-BOARD HYDROGEN GENERATION
A. Lyashenko, A. Pleshkov, M. Ugryumov	MATHEMATICAL SIMULATION OF PROCESSES AT ELEMENTS OF DISTILLER FOR INDIVIDUAL USAGE
A. Palacios-Lazcano, J. Luna-Sánchez, L. Dámaso-Custodio, H. Yukawa, H. Yee-Madeira, M. A. Valenzuela, M. Morinaga, J. G. Cabañas-Moreno	DEHYDRIDING BEHAVIOR OF MECHANICALLY ALLOYED MAGNESIUM ALLOY POWDERS
D. W. Penfold, M. D. Redwood, D. Stratton-Campbell, W. Skibar and L. E. Macaskie	MICROBIAL HYDROGEN PRODUCTION FROM WASTE
F. Mariño, N. Bion, F. Epron, G. Baronetti, M. Laborde, D. Duprez	COPPER-CERIUM INTERACTION ON CUO-CEO ₂ CATALYSTS FOR THE CO PREFERENTIAL OXIDATION (PROX)
F. Mariño, N. Bion, M. Moreno, G. Baronetti, F. Epron, D. Duprez, M. Laborde	CERIA-SUPPORTED COPPER AND NICKEL CATALYSTS FOR THE WATER-GAS SHIFT REACTION (WGSR)
G. Monteleone, F. Botta, S. Galli, P.Gislon, R. Oronzio, P.P. Prosinì	A CARTRIDGE REACTOR FOR HYDROGEN PRODUCTION FROM SOLID NABH ₄
Mark D. Redwood, Ping Yong, Iryna P. Mikheenko and Lynne E. Macaskie	INTEGRATED ENERGY PRODUCTION: THE EFFICIENT AND CONTINUOUS PRODUCTION OF BIOHYDROGEN WITH RECYCLING OF PROCESS BIOMASS FOR THE PRODUCTION OF PEM FUEL CELL CATALYST
Sergei A. Harkov	HYDROGEN PRODUCTION IN BIOREACTORS
Solovey V, Semikin V., Vorobjova I.	HIGH PRESSURE ELECTROLYZER AND HYDROGEN-OXYGEN FUEL CELL
Sonia Arriaga, Jesse Vázquez and Felipe Alatríste-Mondragón	HYDROGEN PRODUCTION BY ANAEROBIC CO-DIGESTION OF STRAW WASTES IN BATCH CULTURES

Yoshinori Shirasaki, Tatsuya Tsuneki, Youshu Ota, Isamu Yasuda, Shinya Tachibana, Hiroshi Nakajima and Kazuto Kobayashi	DEVELOPMENT OF MEMBRANE REFORMER SYSTEM FOR HIGHLY-EFFICIENT HYDROGEN PRODUCTION FROM NATURAL GAS
Natsuki Yoneyama, Hidemi Ukai, Misako Uchida and Hiroki Yoshizawa	HYDROGEN PERMEABILITY OF VANADIUM ALLOY COMPOSITE
Linsheng Wang, Kazuhisa Murata, Megumu Inaba	HYDROGEN GENERATION BY OXIDATIVE STEAM REFORMING OF GASOLINE ON SUPPORTED NI-RE-W-CE CATALYSTS
Giovanni Pino, Martino Paolucci, Riccardo Marceca, Francesco Geri Carlo Borgianni	HYDROGEN PRODUCTION BY ADVANCED BIOMASS GASIFIER
Beata Zielińska, Magdalena Arabczyk, Ryszard Józef Kaleńczuk	SYNTHESIS AND CHARACTERIZATION OF LiNbO_3 IN THE REACTION OF PHOTOCATALYTIC HYDROGEN GENERATION
V.F. Prisniakov, V.I. Eliseev, V.I. Lutsenko	INFLUENCE OF VIBRATIONS ON MOVEMENT OF THE BUBBLE OF HYDROGEN IN THE TANK
Gasanova Lyudmila, Elmira Sadraddinova, Alexander I. Netrusov, Vladimir V. Teplyakov	INTEGRATED MEMBRANE BIOREACTORS FOR PRODUCTION OF BIOHYDROGEN
Dulce Patiño-Ramírez, Gustavo Dávila-Vázquez, Elías Razo-Flores	BATCH Bio-H_2 PRODUCTION USING MIXED CULTURES AND MODEL SUBSTRATES
Pablo Giunta, Miguel Laborde, Norma Amadeo	HYDROGEN PRODUCTION FROM ETHANOL STEAM REFORMING. FIXED BED TUBULAR REACTOR DESIGN
Verónica Mas, Pablo Arena, Graciela Baronetti, Norma Amadeo, Miguel Laborde	ETHANOL STEAM REFORMING Ni(II)-Al(III) USING LAYERED DOUBLE HYDROXIDE AS CATALYST PRECURSOR. KINETIC STUDY
L. Morales S., L.G. Arriaga H. G. Orozco and U. Cano	MEMBRANE ELECTRODE ASSEMBLIES FABRICATION AND ELECTROCHEMICAL CHARACTERIZATION OF SPE ELECTROLYZER
W. El-Osta	POTENTIAL OF HYDROGEN PRODUCTION FROM RENEWABLES IN LIBYA: A FUTURE VISION
C.Roldán and G. Spazzafumo	HYDROGEN POTENTIAL PRODUCTION OF COSTA RICA USING CLEAN ENERGY TO BE USED IN POWER GENERATION

J. L. Rodríguez, M. Sabah, E. D. Beltran, Y. Meas; L. G. Arriaga, E. Torres, G. Orozco	DEVELOPMENT OF HYDROGEN GENERATOR
A. Martinez-Ruiz, Y. Verde, A. M. Valenzuela-Muñiz, G. Alonso-Nuñez	CU ₂ O NANOPARTICLES ON MWCNT FOR WATER SPLITTING
A.M. Fernandez and R. Nava	HYDROGEN PRODUCTION BY PHOTOELECTROLYSIS USING TiO ₂ :Fe PHOTOELECTRODES, PREPARED BY SOL-GEL
H. Romero Paredes, P. Neveu, G. Flamant, J.J. Ambriz, G. Espinosa	EXERGY AND SEPARATELY ANERGY ANALYSIS OF A THERMOCHEMICAL SOLAR CYCLE FOR HYDROGEN PRODUCTION

Hydrogen Storage

L. Alexeeva, M. Strzhemechny, M. Obolensky, A. Basteev, Luis De Rivera, Miguel Cruz Irisson	HYDROGEN STORAGE IN IRRADIATED CARBON NANOTUBES
V.Verbitsky, S.Mitrokhin	INTERMETALLIC HYDRIDES UNDER HIGH HYDROGEN PRESSURE
S.Mitrokhin, T.Zotov, V.Verbitsky, E.Movlaev	HYDROGEN ABSORPTION CAPACITY OF INTERMETALLIC ALLOYS AT ELEVATED PRESSURES
Bent Sørensen	UNDERGROUND HYDROGEN STORAGE IN GEOLOGICAL FORMATIONS, AND COMPARISON WITH OTHER STORAGE SOLUTIONS
M. Gambini, G.L. Guizzi, M. Manno, M. Vellini	METAL HYDRIDE STORAGE SYSTEMS: STATE OF THE ART ANALYSIS AND INTEGRATION IN FC-BASED ENERGY SYSTEMS
M. Gambini, M. Manno, M. Vellini	NUMERICAL ANALYSIS AND PERFORMANCE ASSESSMENT OF METAL HYDRIDE BASED HYDROGEN STORAGE SYSTEMS
Paola Gislón, Ilaria Farsetti, Stefano Galli, Pier Paolo Prosinì	DESIGN AND PERFORMANCE OF HYDRIDE TANKS WORKING AT ROOM TEMPERATURE AND ATMOSPHERIC PRESSURE
Klaus Yvon	SEASONAL HYDROGEN STORAGE IN SOLID STATE METAL HYDRIDES
I. P. Chernov, Yu. M. Koroteev, V. M. Silkin, Yu. I. Tyurin	PHENOMENOLOGICAL MODEL OF EXCITATION OF HYDROGEN SUBSYSTEM IN METALS
Yu. M. Koroteev, I. P. Chernov, O.V.Gimranova	ELECTRONIC STRUCTURE AND DIELECTRIC FUNCTION OF METAL-HYDRIDES
Michael Olson	MEETING THE DOE'S TARGETED GOALS FOR COMPRESSED HYDROGEN GAS IN OFF-BOARD TANK STORAGE

V.A.Yartys, J.K. Solberg, R.V. Denys, J.P. Maehlen, A.B.Riabov, M.V.Lototsky, Ying Wu, S.Løken, B.P.Tarasov, D.N.Borisov

NANOSTRUCTURED HYDRIDES OF LIGHT METALS FOR HYDROGEN STORAGE

Hydrogen as a Fuel

Morteza Sohrabi; Mehri Sanati; Abolfazl Massah	THE USE OF HYDROGEN IN CATALYTIC CONVERSION OF DIOLEFINS FORMED DURING PACOL PROCESS TO MONOOLEFINS
Bent Sørensen	QUANTUM MECHANICAL DESCRIPTION OF CATALYTIC PROCESSES AT THE ELECTRODES OF LOW-TEMPERATURE HYDROGEN-OXYGEN FUEL CELLS
Min-Jin Kim, Won-Yong Lee, Sang-Pil Yu, Nak-Won Kong, Chang-Soo Kim	DESIGN AND ANALYSIS OF A FUEL CELL HYBRID MINIBUS
Agostino Iacobazzi, Maria Chiesa, Stefano Cordiner, Fernando Ortenzi	BLENDS OF HYDROGEN AND NATURAL GAS IN URBAN VEHICLES: THE BRESCIA CASE
E. Entchev, J. Gusdorf, F. Szadkowski, M. Swinton, M. Manning	FUEL CELL SYSTEM FOR STATIONARY SUSTAINABLE HEAT AND POWER GENERATION
F. Tunzio, G. Galeno	A MICRO CAR FUELLED BY PURE HYDROGEN
M. Carcassi, N.Mattei	EXPERIMENTAL STUDIES ON HYDROGEN RELEASES AND COMBUSTIONS FROM PIPELINES
S.H. Park, Y.G. Yoon, C.S. Kim, W.Y. Lee	DEVELOPMENT OF ELECTROCHEMICAL CATALYST SLURRY AND MEMBRANE ELECTRODE ASSEMBLY FOR PEFC APPLICATION
Shahamiri S. A. and Wierzba I.	COMBUSTION OF LEAN FUEL-AIR MIXTURES INVOLVING HYDROGEN WITHIN A PACKED BED REACTOR
T. Leung and I. Wierzba	THE ENHANCEMENT OF STABILITY LIMITS OF BIOGAS JET DIFFUSION FLAMES THROUGH HYDROGEN ADDITION
Daniella Pacheco, Tanit Toledano, Mascha Smit, Enrique Morales	PREPARATION OF NANOPOLYMERS AND STUDY OF THEIR ELECTROCATALYTIC ACTIVITY FOR OXYGEN REDUCTION BY APPLICATION IN PEM CELLS
M.A. Dzul Alcazar, L. García, I. Alonso, T. Toledano, Y. Verde, M.A. Smit	STUDY OF THE ELECTROCATALYTIC ACTIVITY OF POLYANILINE AND POLYANILINE-CARBON NAOTUBE COMPOSITES FOR FUEL CELL REACTIONS
S.Manzo, U.Cano-Castillo, L.A.Zamora, E.Escobedo	STUDY OF PHENOMENA IN A PEM FUEL CELL DURING INCREASING OPERATING TEMPERATURE USING EIS

Guglielmo Liberati, Alessandra Perna, Giuseppe Spazzafumo	SMALL HYDROGEN SOURCES FOR PORTABLE FUEL CELL SYSTEMS: AN OVERVIEW
M. Ferraro, N. Briguglio, L. Andaloro, V. Antonucci	SIMULATION TOOL FOR RENEWABLE HYDROGEN FILLING STATION
Alzate-Gaviria Liliana, Fuentes-Albarran Carmen, Álvarez-Gallegos Alberto, P.J. Sebastian	ELECTRICITY GENERATION FROM WASTEWATER IN A MICROBIAL FUEL CELL
L. C. Ordoñez, P. Roquero, J. Ramírez, P.J. Sebastian	CO TOLERANT ELECTRODES FOR HYDROGEN FUEL CELL
S. V. Rivas, F. Manriquez, I. R. Terol, L.G. Arriaga, G. Orozco	CORROSION PERFORMANCE OF STAINLESS STEEL AND COATINGS IN SIMULATED FUEL-CELL MEDIA
A. Alvarez, C. Guzman, L.G. Arriaga, H. Ruiz, G. Orozco	PREPARATION OF FUEL CELL ELECTRODES USING PULSE ELECTRODEPOSITION
R. Barbosa, Y. Gochi-Ponce, G. Alonso-Núñez, N. Alonso-Vante, G. Orozco and L. G. Arriaga	DMFC PERFORMANCE OF A CHALCOGENIDE PLATINUM MATERIAL
Vitaliano Chiodo, Davide Nevoso, Natale Mondello, Stefano Cavallaro and S. Freni	POTENTIAL APPLICATION OF BIO-ETHANOL ON MC FUEL CELL SYSTEM
Rodolfo Taccani, Robert Radu	EFFECTS OF CONTROL STRATEGIES ON THE PERFORMANCE OF A PEM FUEL CELL POWER MODULE
T. Nakken, I. Fuchs, E.Frantzen, E.F.Hagen	INTEGRATION OF A PEM FUEL CELL IN A SMALL AUTONOMOUS GRID – THE UTSIRA EXPERIENCE
Thomas Førde, Harald Miland, Øystein Ulleberg†	MODELING, SIMULATION, AND TESTING OF A THERMALLY INTEGRATED ELECTROLYZER/METAL HYDRIDE/FUEL CELL SYSTEM
A. Peniche Noh, M. Smit y J. Guillén Mallette	BIPOLAR PLATES MADE WITH IMMISCIBLE POLYMER BLENDS FILLED WITH CARBON BLACK
Elena Sala and Rubèn Ornelas	THE IMPACT OF AMMONIA IN PEMFC PERFORMANCE