

Poster Session I: July 8, 16:50 h – 19:00 h	
S1-P01	Raul Abreu Methane decomposition
S1-P02	Rosa M. Martin-Aranda In-situ Fabrication of freestanding ZIF-8 membrane in microchannel for Knoevenagel condensation reaction
S1-P03	Karel Soukup Metal catalysts supported on nanofibrous polymeric membranes for environmental applications
S1-P04	Izumi Kumakiri Application of FAU zeolite membranes to alcohol/acrylate mixture systems
S1-P05	Hidetoshi Kita Acid durable zeolite membranes for esterification reactions
S1-P06	Hui Ye A novel membrane adsorptive reactor based on hydrophilic ethylene vinyl alcohol copolymer microporous substrate for protein recovery
S1-P07	Miguel Menéndez Membrane reactors for water treatment using ceramic membranes: MBR and catalytic removal of nitrates
S1-P08	Salvatore Abate Palladium catalytic membranes for direct synthesis of H ₂ O ₂ : Optimization of synthesis route and set-up configuration
S1-P09	Eduardo Lombardo A highly selective Pt WGS catalyst is used in a Pd-membrane reactor at pressures up to 800 kPa to obtain pure hydrogen
S1-P10	Eduardo Lombardo Study of a membrane reactor for WGS: Experimental and modeling results
S1-P11	Adolfo Iulianelli Methanol steam reforming for hydrogen production: supported vs dense Pd based membrane reactors
S1-P12	Simona Liguori Two stages Pd-based composite membrane process for producing highly concentrated H ₂ from water gas shift reaction
S1-P13	Angelo Basile A simulation study on methanol steam reforming in a silica membrane reactor for hydrogen production; Part I: Sweep gas flow rate and catalyst content effect at different reaction temperatures
S1-P14	Angelo Basile A simulation study on methanol steam reforming in a silica membrane reactor for hydrogen production; Part II: Membrane selectivity effect at different reaction pressures
S1-P15	Naotsugu Itoh Selective p-xylene synthesis in toluene disproportionation using an H-ZSM-5 catalytic membrane
S1-P16	Nikolay L. Basov The conversion of components of associated petroleum gas and their mixtures by nonthermal activation of process in the membrane reactor
S1-P17	Ana I. Pereira Development of PVD-deposited Pd-Ag functional thin film membranes on ceramic supports for hydrogen purification/separation
S1-P18	Mourad Amara Permeation performance of polymeric cellulose triacetate membrane
S1-P19	Joaquim Vital Poly(vinyl guanidine) membranes as basic catalysts for biodiesel synthesis via soybean oil transesterification
S1-P20	Eduardo López Ethanol steam reforming over Rh-Pd/CeO ₂ : Theoretical and experimental study of a catalytic membrane reactor
S1-P21	Antonielly S. Barbosa Synthesis and characterization of zeolite membrane MCM-22 - vapor transport method
S1-P22	Antonielly S. Barbosa Synthesis of zeolite membranes through two distinct methods: Rubbing and dip coating.
S1-P23	Antusia S. Barbosa Synthesis and characterization of alumina (γ-alumina) for use as ceramic membrane.
S1-P24	Shin-Kun Ryi Combined steam and CO ₂ reforming of methane using catalytic nickel membrane for gas to liquid (GTL) process
S1-P25	Shin-Kun Ryi Pd-Cu alloy membrane deposited on CeO ₂ modified porous nickel membrane for hydrogen separation

S1-P26 Francisco R. García-García Studies on water-gas-shift reaction enhanced by adsorption and membrane permeation
S1-P27 Hamid R. Godini Synthesis of catalytic membrane reactor for methaneoxidative coupling using sol-gel method
S1-P28 Ali A. Babaluo Effect of operating conditions on hydroisomerization of n-pentane over Pt/ZSM-5 nano catalyst in zeolite based membrane reactor
S1-P29 Ali A. Babaluo Hydroisomerization of pentane isomers over Pt/ZSM-5 nanocatalyst with membrane reactor prospect
S1-P30: Adel Saadi Hydrothermal synthesis of hydrotalcite CuII-MIII and CoII-MIII(M: Al, Fe) catalysts. Application for benzaldehyde hydrogenation.
S1-P31: Spyros Voutetakis Enhancement of pure hydrogen production through the use of a membrane reactor.
S1-P32: Giuseppe Barbieri Direct conversion of n-butane to isobutene in a membrane reactor: Thermodynamic analysis
S1-P33: Giuseppe Barbieri Membrane reactors for benzene hydroxylation to phenol
S1-P34: Giuseppe Barbieri One-stage process of water gas shift with a Pd-Ag membrane reactor.
S1-P35 Miguel A. Soria CO ₂ sorption-enhanced membrane reactors for high-purity hydrogen production through low temperature water gas-shift reaction
S1-P36 King Lun Yeung Treatment of endocrine disrupting compounds in water by an advanced ozone
S1-P37: Marta Maroño Hydrogen permeation through a Pd-based membrane in H ₂ /CO ₂ , H ₂ /N ₂ /CO ₂ and H ₂ /H ₂ O/CO ₂ mixtures: Influence of gas flow-rate, temperature and concentration of feed gases
S1-P38: Tatiana Bisoto Development of palladium-alumina membranes for gas separation
S1-P39: Marta Maroño Influence of H ₂ permeation on the performance of a hybrid system sorbent catalyst-membrane for CO ₂ capture and H ₂ production in pre-combustion.
S1-P40 Alexey Fedotov Porous ceramic membrane-catalytic hydrogen-containing gas generators for compact power plants.
S1-P41 Kaidi Gao Analysis of the methane-dehydro-aromatization on a Mo/MCM-22 catalyst in a membrane reactor
S1-P42 Alessio Caravella Effective characterisation of the non-ideal behaviour of Pd-based membranes
S1-P43 Marcello De Falco Natural gas membrane steam reforming: Heat duty assessment.
S1-P44 Aleksey Vedyagin Coating of ceramic membranes with catalytic layer by sol-gel technique
S1-P45 Seungcheol Lee Inkjet printing of porous nanoparticle catalyst for integration in a microchannel membrane steam reformer
S1-P46 Miria H. M. Reis Evaluation of substrate macrostructures in Pd/Al ₂ O ₃ composite hollow fibre membranes for H ₂ permeation
S1-P47 Mayra García Novel sputtering protocol for preparation of mono and bimetallic Pd-based membrane reactors - Insights on the Pd deactivation in the hydrogen peroxide generation application
S1-P48 Cuiyu Yin Preparation and characterization of cellulose carbamate regeneration membrane by supercritical carbon dioxide
S1-P49 Antonio Ricca Membrane assisted propane dehydrogenation for propylene production.
S1-P50 Beata Michalkiewicz Diameter-controlled carbon nanotubes production
S1-P51 Beata Michalkiewicz Design of new catalysts for oxidation of benzyl alcohol

Poster Session II: July 9, 17:00 h – 19:30 h	
S2-P01:	Ekain Fernandez Preparation and characterization of intermetallic diffusion barrier layers for stainless steel supported palladium membranes.
S2-P02:	Inna Petrova Removal of trichloroethylene from water by the Pd-loaded interfacial catalytic membrane contactor.
S2-P03	Carlos V. Miguel Design of Pd-based membranes using a modified Sieverts-Langmuir equation for predicting the effect of carbon oxides on hydrogen permeation
S2-P04	Susana Almeida Development of a self-regenerative unit for CO ₂ removal in closed loop systems
S2-P05	Paulo Ribeirinha Study of different reactor designs for methanol steam reforming: experimental and modelling approach
S2-P06	Yingbo Chen Preparation of PVDF-Ni hollow fiber catalytic membranes for hydrogen production from sodium borohydride.
S2-P07:	Yuzhong Zhang Removal of Cu ²⁺ from aqueous solutions with zeolite 4A/PES membrane adsorptive reactor.
S2-P08:	Laura Furones Development of a new Pd-based membrane highly efficient for H ₂ production via water water gas shift reactor.
S2-P09:	Heike Kreuder Catalytic dehydrogenation of cycloalkanes in a microstructured membrane reactor.
S2-P10:	Tong Zhang Preparation of magnetic core-shell catalysts encapsulated by ZIF-8 membrane shells and their potential application in a capillary microreactor.
S2-P11:	Tong Zhang Preparation and catalytic performance of Ni/Al ₂ O ₃ -Sil-1 core-shell catalysts encapsulated by Sil-1 membranes from different preparation procedures.
S2-P12:	Jianquan Lou Fouling-induced enzyme immobilization in a membrane reactor.
S2-P13:	Atsushi Oshima Kinetic enhancement of ammonia decomposition as a hydrogen carrier in a composite palladium membrane reactor.
S2-P14:	Miguel Torres Forced flow-through catalytic membrane reactor for cumene synthesis.
S2-P15	Patrícia Pérez The poisoning effect of the CO and CO ₂ in the H ₂ flux permeating through a palladium membrane
S2-P16	Sandra Rodrigues Carbon molecular sieve membranes derived from resorcinol-formaldehyde resin for gas separation
S2-P17	Frans Snijkers Fabrication and characterization of activated perovskite capillary membranes for catalytic membrane reactors
S2-P18	Roland Dittmeyer Development of a proton-conducting electrochemical membrane reactor for catalyst-aided generation of hydrogen from H ₂ S-H ₂ O mixtures
S2-P19	Antonio Comite Novel Microporous Layers for PEM Fuel Cells developed from Poly(vinylidene fluoride) and Sulfonated Poly(vinylidene fluoride)
S2-P20	Paula Oliveira Preparation and characterization of polymer electrolyte membrane (PEM) for fuel cell based in a polymeric blend poly(vinyl alcohol)/chitosan with different sulfonation degree
S2-P21	King Lun Yeung Confined PFSA-Pt/HY/Sil-1 composite membrane for self-humidifying high-temperature PEMFC
S2-P22	King Lun Yeung Confined PFSA-zeolite proton conducting membrane: the effects of confinement and zeolite-type.
S2-P23	Xuefeng Zhu Degradation mechanism and stabilization of MIEC oxygen membranes at low-temperature
S2-P24	Youmin Guo All porous solid oxide fuel cell (SOFC): a bridge technology between dual and single chamber SOFC

S2-P25: Evangelos I. Papaioannou Micro-patterned electrodes for the study and control of spillover processes in catalysis: The role of the tbp in the kinetics of CO oxidation reaction.
S2-P26: Irina Belenkaya Characterization of structure and microstructure of ceramic membrane materials $\text{SrCo}_{0.8-x}\text{Fe}_{0.2}\text{M}_x\text{O}_{3-\delta}$ (M=Ta, Nb; $0 \leq x \leq 0.1$) at different oxygen stoichiometry.
S2-P27: Olga Savinskaya Study of structural features and oxygen permeability of $\text{SrCo}_{0.8-x}\text{Fe}_{0.2}\text{Mo}_x\text{O}_{3-z}$ ($0 \leq x \leq 0.2$) nanostructured membranes.
S2-P28: Elena Artimonova Crystal structure and oxygen permeability of $\text{SrCo}_{0.8-x}\text{Fe}_{0.2}\text{W}_x\text{O}_{3-z}$ ($0 \leq x \leq 0.2$) ceramic membrane.
S2-P29 Sergio Morales-Torres Photocatalytic activity of graphene oxide-TiO ₂ composites immobilized into hollow fibres
S2-P30 Jianxin Li Phenolic wastewater treatment by an electrocatalytic membrane reactor
S2-P31: Julio Bastos-Arrieta Ecologically safe bifunctional ion exchangers: Surface modification of ion ex-change materials with metal nanoparticles for catalytic and electrocatalytic applications
S2-P32 Marie P. Belleville Continuous enzymatic saccharification of regenerated cellulose in a ceramic membrane reactor.
S2-P33 Anna Trusek-Holownia Matemathical model of a membrane bioreactor with biomass and substrate retention in BTEX biodegradation
S2-P34 Viktoriia Konovalova Comparison of α -amylase immobilization methods on polymer membranes by determining mass transfer coefficient
S2-P35 Lidietta Giorno Enzyme membrane reactor: A green tool for developing processes with self-foul controlling potential for vegetation wastewater treatment.
S2-P36: Philipp Grünert Extraction of flavonoids from a whole cell biotransformation process
S2-P37: Ligang Lin Novel mixed matrix membranes reactor for sulfur removal and for fuel cell applications
S2-P38 Hugo Silva Very low CO methanol steam reforming reformat for fuel cell applications – the development of new catalysts.
S2-P39: Jun Ishida Catalytic HY zeolite membrane for esterification of acetic acid with ethanol
S2-P40: Berta Domènech Synthesis of silver nanoparticles in Nafion membranes. Development of bifunctional nanocomposite membranes.
S2-P41: Yabin B. Zhang Preparation of plat glass membrane with hierarchical pore from waste glass.
S2-P42: Mohammed N. Kajama Gas permeation properties on γ -alumina ceramic membranes at high temperature
S2-P43: José A. Medrano The membrane-assisted chemical looping reforming concept (MA-CLR) for efficient hydrogen production with integrated CO ₂ capture