EFCD2015 - Poster sessions

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As a reminder:

- ***Session 1**: Sunday 13th September from 19:00 to 21:00*
- ***Session 2**: Monday 14th September from 19:15 to 21:00*

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1. FCH-JU RELATED						
POSTER NUMBER	LAST NAME	FIRST NAME	ORGANISATION	COUNTRY	POSTER TITLE	SESSION
1	COLMENARES	Luis Cesar	SINTEF	Norway	*European Energy Research Alliance Joint Programme on Fuel Cell and Hydrogen Technologies*	1
2	COLMENARES	Luis	SINTEF	Norway	*Antimony Tin Oxide: from computational research until MEA manufacturing: Challenges in the value chain*	2
3	BRAULT	Pascal	Université d'Orléans	France	*Molecular Dynamics simulations of plasma sputtered ultra-low platinum nanocatalyst growth*	1
4	ULRIKKEHOLM	Elisabeth Therese	DTU Physics	Denmark	*Single Crystals studies of Y/Pt(111) and Gd/Pt(111) for the Oxygen Reduction Reaction*	1
5	SCHNEIDER	Oliver	Technische Universität München	Germany	*Electrodeposition of Pt / rare earth metals as ORR catalysts*	2
6	BEAUGER	Christian	MINES ParisTech	France	*Metal Oxides Aerogels as promising catalyst supportsfor potential use in Fuel Cells and Electrolysers*	1
7	HEIKKILÄ	Pirjo	VTT Technical Research Centre of Finland Ltd.	Finland	*Fibrous and tubular support materials for low-Pt PEM fuel cells for automotive MEAs*	1
8	SABO	Lehel	Ulm University	Germany	*ReaxFF Simulations on the Dynamics of the Oxygen Reduction Reaction on Pt Electrodes*	1
9	SCHUPPERT	Anna	Institut Charles Gerhardt Montpellier	France	*Non-Precious Metal Catalysts with ultra-low Pt loading as Hybrid Materials for Oxygen Reduction*	2
10	JAOUEN	Frédéric	Institut Charles Gerhardt Montpellier	France	*Sacrificial Metal Organic Frameworks for Metal-Nitrogen-Carbon Catalysts*	1
11	ERCOLANO	Giorgio	Institut Charles Gerhardt Montpellier	France	*Alternative Pt deposition methods towards maximum efficiency*	2
12	ESCRIBANO	Sylvie	CEA/LITEN	France	*Ageing of platinum based catalysts: combined in-situ and ex-situ degradation analyses*	2
13	THOMASSEN	Magnus	SINTEF Materials and Chemistry	Norway	*Supported Ir and IrRu nanoparticles as highly active oxygen evolution catalysts for PEM water electrolysers.*	1

2. Oxygen reduction catalysis - non PGM						
Poster Number	Last Name	First name	Organisation	Country	Poster Title	Session
2.1 Oxide and sulfide materials						
14	**Chisaka**	Mitsuharu	Hirosaki University	Japan	*Active sites for oxygen reduction reaction in TaOx-MWCNT synthesized via a decomposition of oxy-tantalum phthalocyanine: Nano-TaOx versus CNx*	**1**
15	**Uhlig**	Lisa Maria	NEXT ENERGY - EWE Forschungszentrum fuer Energietechnologie	Germany	*Electrochemical characterisation of temperature dependence of plasma-treated cobalt-oxide catalyst for oxygen reduction reaction in alkaline media*	**2**
2.2 Fe-Co-N-C synthesis and characterisation						
16	**Park**	Gu-gon	Korea Institute of Energy Research	Republic of Korea	*Enhanced ORR Kinetics by Tuning the Active Site with Trace of Platinum on Ordered Mesoporous Porphyrinic Carbon (OMPC) as a Hybrid Support*	**1**
17	**Brüller**	Sebastian	Max Planck Institute for Polymer Research	Mainz	*Bimetallic porous porphyrin polymer-derived non-precious metal electrocatalysts for oxygen reduction reactions*	**2**
18	**Marzorati**	Stefania	Università degli Studi di Milano	Italy	*Template-free ultraspray pyrolysis synthesis of N- and Fe-doped carbon microspheres for oxygen reduction electrocatalysis*	**1**
19	**Gheorghiu**	Cristina Constanta	CEA	France	*Doped Graphene as a Noble Metal-Free Catalyst for the ORR in acidic media*	**2**
20	**Buan**	Marthe Emelie Melandsø	Norwegian University of Science and Technology (NTNU)	Norway	*Engineering of N-CNFs on Exfoliated Graphite for the Oxygen Reduction Reaction*	**1**
21	**Lázaro Elorri**	Mª JESÚS	Instituto de Carboquímica	Spain	*N-doped Carbon Materials as Zero Platinum Catalyst for Oxygen Reduction in PEMFCs*	**2**
22	**Sarapuu**	Ave	University of Tartu	Estonia	*Cobalt- and iron-containing N-doped carbon aerogels as efficient catalysts for electroreduction of oxygen in alkaline media*	**1**

23	**CAI**	Qiong	University of Surrey	UK	*Biomass-based carbon aerogels for oxygen reduction reaction in polymer membrane fuel cells*	**2**
24	**PAMPEL**	Jonas	Max Planck Institute of Colloids and Interfaces	Germany	*Advanced Pore Tuning of Nitrogen Doped Carbons Leading to Highly Active Catalysts for the Oxygen Reduction Reaction*	**1**
25	**LUO**	Fang	TU Berlin	Germany	*Polyaniline-based non-noble Metal Catalysts for Oxygen Reduction Reaction – Investigation of Structure-Activity-Correlations*	**2**
26	**FUKUNAGA**	Hiroshi	Shinshu University	Japan	*Oxygen reduction reaction activity in relation with mesopore surface area of silk-derived carbon as non-Pt catalyst for PEFCs*	**1**
27	**CHUNG**	Min Wook	KAIST (Korea Advanced Institute of Science and Technology)	Republic of Korea	*Dimensionality-Dependent Oxygen Reduction Activity on Doped Graphene: Is Graphene a Promising Substrate for Electrocatalysis?*	**2**
28	**LYTH**	Stephen	I2CNER, Kyushu University	Japan	*Nitrogen-doped Graphene Foams as Template-Free, Metal-Free, Non-Precious Electrocatalysts for Oxygen Reduction in Acid and Alkaline Media*	**1**
29	**GOELLNER**	Vincent	Institut Charles Gerhardt Montpellier	France	*Synthesis of Highly-active Particle-Free Fe-N-C Catalyst for ORR Catalytic Site Identification*	**1**
30	**JAOUEN**	Frédéric	Institut Charles Gerhardt Montpellier	France	*Degradation by Hydrogen Peroxide of Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction*	**2**
31	**CHOI**	Chang Hyuck	Max-Planck-Institut für Eisenforschung GmbH	Germany	*Operando stability windows of Fe-N-C catalysts in acid electrolyte*	**1**
32	**MALKO**	Daniel	Imperial College London	London	*The poison tolerance of non-precious metal catalysts and the challenges of thick catalyst layers.*	**2**
33	**ERIKSSON**	Björn	Applied Electrochemistry	Sweden	*Degradation and lifetime evaluation of Fe-N-C based catalyst in PEM fuel cell*	**2**
34	**DOMÍNGUEZ FERNÁNDEZ**	Carlota	Spanish National Research Council (CSIC)	Spain	*Influence of the iron precursors and the ammonia pyrolysis step in Fe/N/C electrocatalysts for oxygen reduction reaction*	**1**
35	**BARMAN**	Suman Kumar	CEA	France	*Oxygen reduction: a bio-inspired tri-iron catalyst on doped graphene*	**2**

36	**KIM**	Sang-Kyung	Korea Institute of Energy Research	South Korea	*Phthalocyanine-originated Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media*	**2**
37	**VERDE-GOMEZ**	Ysmael	Instituto Tecnologico de Cancœn	Mexico	*Comparison studies between fibers and carbon nanotubes doped with nitrogen.*	**1**
38	**KIM**	Sung-Min	Korea aerospace university	South Korea	*The nitrogen doped carbon nanotube as electrocatalysts for oxidation reduction reaction*	**2**
39	**GOENAGA**	Gabriel	The University of Tennessee	USA	*Synthesis and characterization of Cu, Fe, Co based non-noble metal catalysts for ORR in alkaline fuel cells*	**1**
40	**ATANASSOV**	Plamen	CNR-ITAE	Italy	*Performance analysis of non-platinum group metal catalysts for direct methanol fuel cell cathodes*	**1**
41	**PEREZ-ALONSO**	Francisco J.	Spanish National Research Council (CSIC)	Spain	*Preparation of iron-nitrogen-graphene based electrocatalysts. Study of oxygen reduction reaction activity in alkaline media*	**2**
42	**ZHONG**	Lijie	Technical University of Denmark	Denmark	*A highly efficient and stable non-precious metal ORR electrocatalyst by one-step pyrolysis under high pressures*	**1**
43	**TAMMEVESKI**	Kaido	University of Tartu	Estonia	*Oxygen electroreduction on Fe, Co-containing nitrogen-doped carbon nanomaterials*	**2**
44	**OSMIERI**	Luigi	Politecnico di Torino - DISAT	Italy	*A micro-Silica reactor (μSi-R) able to produce highly porous non-noble catalyst for oxygen reduction reaction under alkaline conditions.*	**1**
45	**LONGHI**	Mariangela	Università degli Studi di Milano	Italy	*Effects of catalyst aging on the growth morphology and oxygen reduction activity of nitrogen-doped carbon nanotubes*	**2**

3 Oxygen reduction catalysis, PGM						
Poster Number	**Last Name**	**First name**	**Organisation**	**Country**	**Poster Title**	**Session**
3.1 Novel supports, Pt on novel supports						
46	**Berber**	Mohamed Reda	Kyushu University	Japan	*Platinum Nanoparticles Immobilized on Polymer-wrapped Carbon Nanotube: Fuel Cell Performance and Durability Analysis*	**1**
47	**Alkan Gürsel**	Selmiye	Sabanci University Faculty of Engineering&Natural Sciences	Turkey	*Graphene Supported Pt Nanoparticles as the Electrocatalysts for PEM Fuel Cells*	**2**
48	**Işıkel Şanlı**	Lale	Sabancı University	Turkey	*Graphene Hybrid Nanomaterials as the Catalyst Support for PEM Fuel Cell Electrodes*	**1**
49	**Moreno**	Berta	Instituto de Ceramica y Vidrio, CSIC	Spain	*Synthesis of Pt-TiO2 and Pt-TiN catalysts with improved durability under cathode conditions*	**2**
50	**Spataru**	Tanta	Institute of Physical Chemistry of the Romanian Academy	Romania	*New liposomale template for the electrodeposition of low platinum content nanoparticles*	**1**
51	**Maillard**	Frédéric	CNRS-LEPMI	France	*Corrosion of high surface area carbon supports used in proton-exchange membrane fuel cell electrodes*	**2**
52	**Safo**	Isaac Adjei	Institute of Chemistry,Carl Von Ossietzky University of Oldenburg	Germany	*Understanding the Structural Loss of Shape-controlled Platinum Nanoparticles*	**1**
53	**Nabil**	Yannick	Institut Charles Gerhardt Montpellier	France	*Novel Structured Catalyst Supports for PEM Fuel Cells*	**2**
3.2 Pt alloys, core shell approaches						
54	**Westsson**	Emma	Politecnico di Torino	Italy	*Core-shell noble catalyst with high electro activity thought oxygen reduction reaction (ORR) and increased methanol tolerance; a comparison between two methods*	**1**
55	**Zubiaur**	Anthony	Université de Liège	Belgium	*Synthesis and characterization of Pt-Co/carbon xerogel electrocatalysts for Proton Exchange Membrane Fuel Cells (PEMFC)*	**2**

56	**Tong**	YuYe	Georgetown University	USA	*Highly Stable and Active Carbon-Supported PtCo Nanoparticles for Oxygen Reduction Reaction*	**1**
57	**Asset**	Tristan	University of Grenoble	Belgium	*Pt-Ni Porous Hollow Nanoparticles for Oxygen Reduction Reaction: Controlling the Nanoparticles Size and Dispersion*	**2**
58	**Kühl**	Stefanie	TU Berlin	Germany	*Shaped Bi- and Trimetallic Nanoparticles Based on Platinum-Nickel Alloys as Active Electrocatalysts for Oxygen Reduction*	**1**
59	**Beermann**	Vera	TU Berlin	Germany	*Rh doped Pt-Ni octahedral nanoparticles: Correlation between elemental distribution and ORR stability*	**2**
60	**Marconot**	Olivier	CEA/DSM/INAC/SP2M/SiNaPS	France	*Platinum copper alloy nanotubes array as carbon-free PEMFC cathode*	**2**
3.3 OTHER PGM (NON PT) BASED CATALYSTS						
61	**Lázaro Elorri**	María Jesús	Instituto de Carboquímica -CSIC	Spain	*Palladium-nickel catalysts as multi-functional electrodes for alkaline low temperature fuel cells*	**2**
62	**Lee**	SANG-YUL	Korea Aerospace University	Korea	*Synthesis and Characterization of the Size-controlled Pd and Pd-X nanoparticles for the Electrocatalytic Applications*	**2**
63	**Brouzgou**	Angeliki	University of Thessaly	Greece	*Carbon supported ultra-low Pt electrocatalyst for Oxygen Reduction Reaction*	**1**
64	**Tzorbatzoglou**	Fotini	University of Thessaly	Greece	*Investigation of PdxIry/Vulcan-XC-72 for Oxygen Reduction Reaction*	**2**
65	**Uribe-Godínez**	Jorge	National Autonomous University of Mexico	Mexico	*Study of the Oxygen Reduction and Hydrogen Oxidation Reactions by new tri-metallic catalysts*	**2**
3.4 ELECTRODE FABRICATION						
66	**Komárková**	Zuzana	Charles University	Czech Republic	*PtMx magnetron sputtered thin layer as Ultra Low loading catalyst for DMFC*	**1**
67	**Fiala**	Roman	Charles University	Prague	*Pt doped CeO2 magnetron sputtered thin layer on CNx at Ultra Low loadings for PEMFC catalyst*	**2**

4. OER AND HER CATALYSTS						
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4.1 OER CATALYSTS						
68	**Ion-Ebrasu**	Daniela	National Research & Development Institute for Cryogenics and Isotopic Technologies-ICSI-Rm	Romania	*Ru-based Oxide Catalysts for PEM Electrolyzers Obtained by DC Magneton Sputtering*	**1**
69	**Gago**	Aldo	German Aerospace Center (DLR)	Germany	*Iridium nanoparticles supported on Ti4O7 as cost effective anode for proton exchange membrane (PEM) water electrolysis*	**2**
70	**Nefedkin**	Sergey	MEI National Research University	Russia	*Synthesized by magnetron sputtering Ir-Mo and Pt-C low-loading catalysts for PEM electrolysers*	**1**
71	**Thazhe veettil**	Vineesh	CSIR-Central Electrochemical Research Institute	India	*Bi-functional electrocatalytic activities of boron doped graphene derived from boron carbide*	**1**
72	**Rodríguez-García**	Bárbara	Institute of Chemical Research of Catalonia (ICIQ)	Spain	*Oxygen evolution catalyst at neutral and acidic media by cyanide-based coordination polymers*	**2**
4.2 HER CATALYSTS						
73	**Ampurdanes Vilanova**	Jordi	ICIQ - Institute of Chemical Research of Catalonia	Spain	*MoS2 and Co3O4 as Non-PGM HER Materials in PEM Electrolysis*	**1**
74	**Peron**	Jennifer	Université Paris Diderot	France	*Iron Sulfide nanoparticles as cathode catalyst for PEM electrolyzers*	**1**
75	**Davodi**	Fatemeh	Aalto University	Finland	*Polymer functionalized carbon nanotube as an active electrocatalyst for hydrogen evolution reaction*	**1**
76	**Li**	Dongmei	University of Wyoming	USA	*Understanding Synergetic Effects Between PGM and Non-PGM Supports via Surface Characterization and Device Performance*	**2**
77	**Zhou**	Weijiang	Nanyang Technological University	Singapore	*Synthesis and activity of graphene-supported carbides for low-temperature fuel cells*	**2**

5. System modelling and electrode modelling						
Poster Number	Last Name	First name	Organisation	Country	Poster Title	Session
78	**Reda**	Mahmoud	CanadElectrochim	Canada	*Critical Comments on the Mathematical Modeling of Polymer Electrolyte Membrane Fuel Cell (PEMFC)*	1
79	**Casalegno**	Andrea	Politecnico di Milano	Italy	*Aged and low Pt loading catalyst layers: analogies in mass transport issue?*	1
80	**Salomov**	Uktam	Politecnico di Torino - Department of Energy	Italy	*Catalyst distribution effect on performance and durability of HTPEMFC*	2
81	**Reda**	Mahmoud	1-CanadElectrochim, 2- Kuwait University	1- Canada 2- Persian Gulf	*Toward the idea of replacing internal combustion engine by polymer electrolyte membrane (pem) fuel cell as power source for motor vehicles. The impact of platinum loading and relative humidity on oxygen transport resistance and identification of the unknown resistance*	2

6. miscellaneous						
Poster Number	**Last Name**	**First name**	**Organisation**	**Country**	**Poster Title**	**Session**
82	**Orakwe**	Ifeyinwa	The Robert Gordon University Aberdeen	United Kingdom	*An Initial study of gas permeation of single gases on a Platinum impregnated Alumina Membrane*	1
83	**Kajama**	Mohammed	Robert Gordon University Aberdeen	Germany	*Hydrocarbon combustion on low Pt-alumina impregnated catalyst*	2
84	**Jacques**	Pierre-André	CEA	France	*HyCoRA – Hydrogen Contaminant Risk Assessment*	1
85	**Marzun**	Galina	University of Duisburg-Essen	Germany	*Laser-based synthesis of a heterogeneous nickel catalyst: Effect of electronic interaction on colloidal nanoparticle deposition*	1
86	**Chen**	Hanmei	Chinese Academy of Science	China	*Platinum Nano particles Loading on Super Hydrophobic Carbon Fiber Electrode Preparation of Hydrogen Peroxide Sensor and its Application Research*	2