

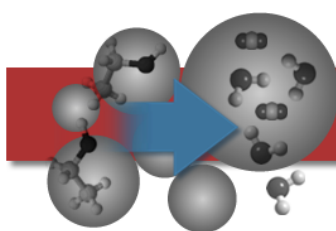
International Symposium on Electrocatalysis: New Concepts and Approaches

November 4th – 07th, 2012
Hotel Salinas do Maragogi – Brazil



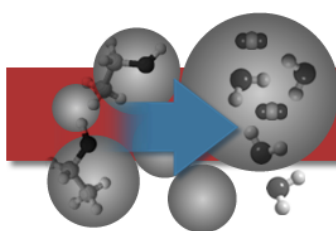
PROGRAM





Sunday – November 4th	
16:00 - 18:00	Registration
18:00	Opening Ceremony and Plenary Lecture 1: R.R. Adzic (Brookhaven National Laboratory, Upton, NY, USA) Platinum Monolayer Electrocatalysts: Improving Their Activity for the Oxygen Reduction Reaction and the Oxidation of Organic Molecules
20:00	Welcome Reception

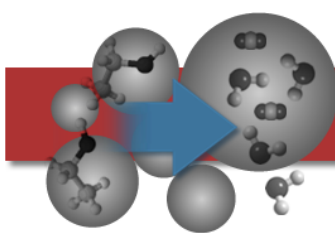
Monday – November 5th																							
08:00	Plenary Lecture 2: Ralph Nuzzo (Department of Chemistry, University of Illinois) Functional Nanomembrane Systems and Soft Fabrication Methods: Materials and Approaches for their Use in Sustainable Energy Technologies																						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Room Maragogi</th> <th style="width: 50%; text-align: center;">Room Japaratinga</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> 9:00 E.R. Gonzalez (Instituto de Química de São Carlos, USP, São Carlos, Brasil) FUE-22: The effect of temperature on the electro-oxidation of ethanol on fuel cell anodes </td> <td style="vertical-align: top;"> D. Harrington (University of Victoria, Victoria, Canada) FUE-16: Dynamic Impedance Studies of Methanol and Formic Acid Oxidation </td> </tr> <tr> <td style="vertical-align: top;"> 09:30 L.A. Kibler (Institute of Electrochemistry, University of Ulm, Germany) SUR-29: Electrocatalysis at tangentially strained surfaces of bimetallic systems </td> <td style="vertical-align: top;"> D. 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Lanza (Instituto de Química de São Carlos - USP, São Carlos, Brasil). MAT-12: SECM investigation of the ORR in a cobalt phthalocyanine supported on Printex 6L carbon </td> </tr> <tr> <td style="vertical-align: top;"> 11:30 E.A. Ticianelli (Instituto de Química de São Carlos, USP, São Carlos, Brasil) FUE-21: Investigations of Supported Platinum-on-Carbide Electrocatalysts for PEM Fuel Cells </td> <td style="vertical-align: top;"> P.J. Kulesza (University of Warsaw, Warsaw, Poland) MAT-15: Multifunctional Nanostructured Materials for Electrocatalysis, Photoelectrocatalysis and Bioelectrocatalysis </td> </tr> <tr> <td style="vertical-align: top;"> 12:00 V.R. 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17:30	G. Attard (Cardiff University, Cardiff, UK) SUR-06: Electrocatalytic Studies of Polymer Coated Pt{hkl} Electrodes	E. Pastor (Universidad de La Laguna, Spain) MAT-34: Core-shell Mo-particles as co-catalyst/support for catalysts used in alcohol and carbon monoxide electro-oxidation
18:00 – 19:30h	Poster BIO-02 / FUE-02 - FUE-11 / KIN-03 / MAT-01 - MAT-22 / POR-02 - POR-04 / STR-02 - STR-05 / SUR-08 - SUR-17	
19:30	E. Batista (Instituto de Química / Universidade Estadual Paulista, Araraquara, Brasil) FUE-26: Gold Effects in the Electrocatalysis of Alcohols oxidation	J. Souza-Garcia (Universidade Federal do ABC, Santo André, Brasil) SUR-10: Nitrate reduction on Pt(S)[n(110)x(111)] and Pt(S)[n(110)x(100)] electrodes
20:00	P. Strasser (Department of Chemistry, Chemical Engineering Division, Technical University Berlin, Germany) SUR-21: Pt-Ni bimetallic alloy nanoparticle electrocatalysts: Insights in their atomic-scale shape, structure, composition, and catalytic reactivity	B. Kokoh (Universite de Poitiers, Poitiers, France). MAT-02: Renewable energy sources for the supply of PEM water electrolyzer - hydrogen and oxygen production at Ru based catalysts

Tuesday – November 6th		
08:00	Plenary Lecture 3: N. M. Markovic (Argonne National Laboratory, Materials Science Division, Chicago, USA) Electrochemical interfaces in aqueous electrolytes and organic solvents: bridging the gap	
	Room Maragogi	Room Japaratinga
09:00	A. Chialvo (Facultad de Ingeniería Química, Universidad Nacional del Litoral, Argentina). SUR-07: A new tool for electrochemical studies: excess current density	F. Maillard (Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces, Saint Martin d'Hères, France) STR-03: Formation of Pt Hollow Nanoparticles in PEMFC Through the Nanoscale Kirkendall Effect
09:30	L.H. Dall'Antonia (Universidade Estadual de Londrina, PR, Brazil) SUR-16: Synthesis, Characterization and Photoelectrocatalytic Activity of Electrodeposited Films of ZnO/cobalt oxide	J. Ribeiro (Universidade Federal do Espírito Santo, Brasil) FUE-29: Electrochemical studies of the Pt-based electrocatalysts for alcohol oxidation
10:00	K.A Friedrich (German Aerospace Center, Stuttgart, Germany) STR-08: Electrocatalyst Stability under Dynamic and Stationary Operation of Fuel Cells: Problems and Solutions	S. Mitsuhashi (Yokohama National University, Yokohama, Japan) KIN-01: Modeling of the degradation for Pt/C under potential cycling
10:30 – 11:00h	Coffee Break	
11:00	G. Jerkiewicz (Queen's University, Kingston, Canada) SUR-13: Electro-Dissolution of Platinum in Acidic Media Upon Potential Cycling	E. Herrero (Universidad de Alicante, Alicante, Spain) TRA-03: Surface Structure Effects in Ethanol Oxidation: from Single Crystal Electrodes to Nanoparticles
11:30	G. Maia (Universidade Federal de Mato Grosso do Sul, Campo Grande - MS, Brazil) SUR-03: Pt-Pd-Based Micro- to Nanostructures Used for Oxygen Reduction	R. Bertazzoli (Universidade Estadual de Campinas, Campinas, Brazil) POR-01: Oxidative electrosynthesis of fuels and chemical specialties using TiO ₂ -RuO ₂ /PTFE gas diffusion electrodes
12:00	J. Tong YuYe (Department of Chemistry, Georgetown University, Washington DC, USA) SUR-26: Insights on Oxygen Reduction Reaction on Au Polycrystalline Surface as Seen by in situ Surface Enhanced IR Absorption Spectroscopy	E. Santos (University Ulm, Ulm, Germany) SUR-28: Electrocatalysis at nanostructures
12:30 – 16:30h	Lunch	
16:30	T. Mizukami (Hitachi, Ltd., Hitachi, Japan) STR-04: Development of Catalysts and Catalyst Layers for High Performance Direct Methanol Fuel Cells	M.H. Eikerling (Simon Fraser University, Burnaby, Canada) STR-01: Theory of Platinum Mass Balance in Catalyst Layers of PEM Fuel Cells
17:00	M.O.F. Goulart (Universidade Federal de Alagoas, Brazil) MAT-24: Chemically Modified Carbon-based Electrodes for the Analysis of Reactive Oxygen Species and Biologically Important Antioxidants	F. Colmati (Universidade Federal de Goiás, Goiânia, Brasil) FUE-24: Preparation and characterization of supported PtSnCu, PtCu and PtSn catalysts for ethanol electro-oxidation



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17:30	G. Denuault (School of Chemistry, University of Southampton, UK) MAT-04: Study of Oxygen Evolution from Nanostructured Iron Oxide Films	H. Baltruschat (University of Bonn, Germany) STR-07: New insights into methanol oxidation at Pt: Pulsed voltammetry for DEMS and ac voltammetry
18:00 – 19:30	Poster Section FUE-13 - FUE-28 / KIN-04 / MAT-25 - MAT-40 / POR-05 - POR-07 / STR-06 - STR-09 / SUR-18 - SUR-24	
20:30 – 00:00	Banket	

POSTER SECTION

Monday – November 5th

BIO-02	Study of cysteine adsorption on Pt electrodes in acid medium <i>Authors</i> : André Dourado (IQ-USP); Paulo Sumodjo (IQ-USP).
FUE-02	A density functional theory investigation of the adsorption of ethanol and water mixture on Pt(111) surface <i>Authors</i> : Polina Tereshchuk (Institute of Physics of São Carlos, University of Sao Paulo); Juarez L. F. Da Silva (Institute of Chemistry of São Carlos, University of São Paulo).
FUE-03	Pd nanoparticles produced by polyol method: the effect of electrochemical cleaning toward CO electro-oxidation <i>Authors</i> : Cauê Alves Martins (UFMS); Pablo Sebastian Fernández (UNLP); Horacio Troiani (División Metales, Centro Atómico Bariloche); Maria Elisa Martins (UNLP); Giuseppe Abíola Camara (UFMS).
FUE-04	PtWC/C electrocatalysts for the oxygen reduction reaction in alkaline electrolyte. <i>Authors</i> : Amanda Cristina Garcia (IQSC/USP); Edson Antonio Ticianelli (IQSC/USP).
FUE-05	Oxygen Reduction Reaction on Carbon-Supported Ag Nanoparticles <i>Authors</i> : Amanda Cristina Garcia (IQSC/USP); Germano Trmiliosi Filho (IQSC/USP); Luiz Henrique da Silva Gasparotto (UFRN); Janaina Fernandes Gomes (IQSC/USP).
FUE-06	Towards the electrochemical valorization of glycerol on Pd based nano-catalysts in alkaline medium <i>Authors</i> : Claudia Gomes de Moraes (IC2MP, Universite de Poitiers); Yaovi Holade (IC2MP, Universite de Poitiers); Karine Servat (IC2MP, Universite de Poitiers); Teko W. Napporn (IC2MP, Universite de Poitiers); Boniface, Kokoh (IC2MP, Universite de Poitiers).
FUE-07	Influence of stirring time in the synthesis of Pbcore–Ptshell nanoparticles on the electrochemical oxidation of ethanol <i>Authors</i> : Lays Soares dos Reis Silva (Universidade Tiradentes); Glauca Regina de Oliveira Almeida (Universidade Tiradentes); Katlin Ivon Barrios Eguiluz (Universidade Tiradentes); Luiz Pereira da Costa (Universidade Tiradentes); Ronaldo Santos da Silva (Universidade Federal de Sergipe); Giancarlo Richard Salazar-Banda (Universidade Tiradentes).
FUE-08	Platinum nanowires for the oxidation of methanol in acid media <i>Authors</i> : Glauca Regina de Oliveira Almeida (Universidade Tiradentes); Lays Soares dos Reis Silva (Universidade Tiradentes); Gabriel Fernandes Pereira (Universidade Tiradentes); Luiz Pereira da Costa (Universidade Tiradentes); Ronaldo Santos da Silva (Universidade Federal de Sergipe); Giancarlo Richard Salazar-Banda (Universidade Tiradentes); Katlin Ivon Barrios Eguiluz (Universidade Tiradentes).

FUE-10	<p>Ethanol and water adsorption on compact transition metal surfaces: A density functional theory investigation</p> <p><i>Authors</i> : Polina Tereshchuk (University of São Paulo, Institute of Physics of São Carlos); Juarez L. F. Da Silva (University of São Paulo, Institute of Chemistry of São Carlos).</p>
FUE-11	<p>Comparative study of the electro-oxidation of alcohols with three-carbon atoms chain on gold electrode: important aspects for the glycerol electrocatalysis</p> <p><i>Authors</i> : Nyccolas Emanuel (USP); Janaina Fernandes Gomes (USP); Germano Tremiliosi Filho (USP).</p>

KIN-03	<p>The oscillatory electro-oxidation of glycerol in alkaline medium</p> <p><i>Authors</i> : Cristiane Oliveira (Institute of Chemistry of São Carlos, University of São Paulo); Elton Sitta (Institute of Chemistry of São Carlos, University of São Paulo); Hamilton Varela (Institute of Chemistry of São Carlos, University of São Paulo).</p>
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MAT-01	<p>(Ni)₂[Bisalphen] Polymeric Film for Electrocatalytical Determination of Ethanol in Alkaline Aqueous Solution</p> <p><i>Authors</i> : Cibely Silva Martin (University of State of Sao Paulo (UNESP)); Marcos Fernando Souza Teixeira (University of State of Sao Paulo (UNESP)).</p>
MAT-03	<p>A density functional study of Platinum-based nanoalloys PtnTM(55-n) (TM = Co, Rh, Au)</p> <p><i>Authors</i> : Maurício Jeomar Piotrowski (Instituto de Química de São Carlos, Universidade de São Paulo); Paulo Piquini (Department of Physics, Federal University of Santa Maria); Juarez L. F. Da Silva (Instituto de Química de São Carlos, Universidade de São Paulo).</p>
MAT-05	<p>A density functional study of the adsorption of NO on the Rh₁₃, Pd₁₃, Ir₁₃, and Pt₁₃ clusters</p> <p><i>Authors</i> : Maurício Jeomar Piotrowski (Instituto de Química de São Carlos, Universidade de São Paulo); Paulo Piquini (Department of Physics, Federal University of Santa Maria); Zhenhua Zeng (State Key Laboratory of Catalysis and Center for Theoretical and Computational Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences / Center for Atomic-scale Materials Design, Department of Physics, Technical University of Denmark); Juarez L. F. Da Silva (Instituto de Química de São Carlos, Universidade de São Paulo).</p>
MAT-09	<p>Analysis of the eletrooxidation products of glycerol on nickel based nanocatalysts in alkaline medium.</p> <p><i>Authors</i> : Vanessa Luciane Oliveira (Universidade De São Paulo, São Paulo, Brasil); C. Morais (Université de Poitiers, IC2MP UMR CNRS 7285), K. Servat (Université de Poitiers, IC2MP UMR CNRS 7285), T.W. Napporn (Université de Poitiers, IC2MP UMR CNRS 7285), G. Tremiliosi-Filho (Universidade De São Paulo, São Paulo, Brasil), K.B. Kokoh (Université de Poitiers, IC2MP UMR CNRS 7285)</p>

MAT-11	<p>Synthesis of star-like Pt-Ru nanowires for the electrocatalytic oxidation of methanol in acid media</p> <p><i>Authors</i> : Katlin Ivon Barrios Eguiluz (<i>Instituto de Tecnologia e Pesquisa / Universidade Tiradentes</i>); Gláucia Regina de Oliveira Almeida (<i>Instituto de Tecnologia e Pesquisa / Universidade Tiradentes</i>); Gabriel Fernandes Pereira (<i>Instituto de Tecnologia e Pesquisa / Universidade Tiradentes</i>); Lays Soares dos Reis Silva (<i>Instituto de Tecnologia e Pesquisa / Universidade Tiradentes</i>); Luiz Pereira da Costa (<i>Instituto de Tecnologia e Pesquisa / Universidade Tiradentes</i>); Ronaldo Santos da Silva (<i>Universidade Federal de Sergipe</i>); Giancarlo Richard Salazar Banda (<i>Instituto de Tecnologia e Pesquisa / Universidade Tiradentes</i>).</p>
MAT-13	<p>Treatment of wastewater contaminated with methyl-parathion by electrochemical oxidation with BDD electrode</p> <p><i>Authors</i> : Suellen A. Alves (<i>Instituto de Química de São Carlos - USP</i>); Tanare C. R. Ferreira (<i>Instituto de Química de São Carlos - USP</i>); F. L. Migliorini (<i>Instituto Nacional de Pesquisas Espaciais - INPE</i>); Maurício R. Baldan (<i>Instituto Nacional de Pesquisas Espaciais - INPE</i>); Neidenei G. Ferreira (<i>Instituto Nacional de Pesquisas Espaciais - INPE</i>); Marcos R. V. Lanza (<i>Instituto de Química de São Carlos - USP</i>).</p>
MAT-14	<p>Sonoelectrochemistry applied to degradation of methyl paraben</p> <p><i>Authors</i> : Juliana Steter (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>); Dawany Dionísio (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>); Marcos Roberto Vasconcelos Lanza (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>); Artur de Jesus Motheo (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>).</p>
MAT-16	<p>Activation of Noble Metal Centers through Modification with Metal Oxo Species towards Electrocatalytic Oxidation of Alcohols and Formic Acid</p> <p><i>Authors</i> : Iwona A. Rutkowska (<i>University of Warsaw</i>); Anna Wadas (<i>University of Warsaw</i>); Diana Marks (<i>University of Warsaw</i>); Karolina Klak (<i>University of Warsaw</i>); Sylwia Zoladek (<i>University of Warsaw</i>); Pawel J. Kulesza (<i>University of Warsaw</i>).</p>
MAT-17	<p>Sonoelectrochemistry applied to degradation of methyl paraben</p> <p><i>Authors</i> : Juliana Steter (<i>Universidade de São Paulo - IQSC</i>); Dawany Dionisio (<i>Universidade de São Paulo</i>); Marcos R. V.Lanza (<i>Universidade de São Paulo - IQSC</i>); Artur J. Motheo (<i>Universidade de São Paulo - IQSC</i>).</p>
MAT-19	<p>Nanomaterials for Direct Alcohols Fuel Cells Anodes</p> <p><i>Authors</i> : Mauro Santos (<i>Universidade Federal do ABC</i>).</p>
MAT-20	<p>Nanocellulose-based carbon prepared by hydrothermal carbonization as support for PtRu nanoparticles for methanol electro-oxidation</p> <p><i>Authors</i> : Giulianna Gonçalves Feijó (<i>UFABC</i>); Márcia Aparecida Silva Spinacé (<i>UFABC</i>); Marcelo Marques Tusi (<i>Universidade Regional Integrada do Alto Uruguai e das Missões</i>); Vilmária Aparecida Ribeiro (<i>IPEN-CNEN/SP</i>); Marcelo Linardi (<i>IPEN-CNEN/SP</i>); Almir Oliveira Neto (<i>IPEN-CNEN/SP</i>); Estevam Vitorio Spinacé (<i>IPEN-CNEN/SP</i>).</p>
MAT-21	<p>A Supportless Approach for Designing a Self-Improving Catalyst.</p> <p><i>Authors</i> : Gustavo Doubek (<i>IPEN-USP</i>); Ryan Sekol (<i>Yale University</i>); Sundeep Mukherjee (<i>Yale University</i>); Marcelo Linardi (<i>IPEN-USP</i>); Jan Schroers (<i>Yale University</i>); André Taylor (<i>Yale University</i>).</p>

MAT-22	<p>Carbon-supported Pt-Cu nanoparticles with different metals distribution</p> <p><i>Authors</i> : Tatiana Aleksandrovna Lastovina (Southern Federal University); Sergej Sergeevich Manokhin (Belgorod State University); Natalya Yurjevna Tabachkova (National University of Science and Technology «MISIS»); Vladimir Efimovich Guterman (Southern Federal University).</p>
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POR-02	<p>Electro-fenton degradation of the amaranth food dye using Gas Diffusion Electrode (GDE)</p> <p><i>Authors</i> : Willyam Barros (IQSC/USP); Poliana Franco (IQSC/USP); Robson Rocha (IQSC/USP); Marcos Lanza (IQSC/USP).</p>
POR-03	<p>High Activity Mesoporous Pt/Ru catalysts for methanol oxidation</p> <p><i>Authors</i> : Horacio Corti (CNEA - CAC); Esteban Franceschini (CNEA - CAC).</p>
POR-04	<p>Pt electrocatalyst supported on mesoporous carbon as cathode catalyst for direct methanol fuel cell</p> <p><i>Authors</i> : Maria Agustina Petruccelli (Departamento de Física de la Materia Condensada, Comisión Nacional de Energía Atómica Comisión Nacional de Energía Atómica); Mariano Martin Bruno (Departamento de Física de la Materia Condensada, Comisión Nacional de Energía Atómica Comisión Nacional de Energía Atómica); Federico Andres Viva (Departamento de Física de la Materia Condensada, Comisión Nacional de Energía Atómica Comisión Nacional de Energía Atómica); Horacio Roberto Corti (Departamento de Física de la Materia Condensada, Comisión Nacional de Energía Atómica Comisión Nacional de Energía Atómica).</p>

STR-02	<p>Obtaining completely clean Pd nanoparticles produced by polyols method using PVP through electrochemical cycling for basic electrocatalysis research</p> <p><i>Authors</i> : Pablo Sebastián Fernández (Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA)); Cauê Alves Martins (CCET /UFMS); Horacio Troiani (División Metales, Centro Atómico Bariloche); Giuseppe Abíola Câmara (CCET /UFMS); María Elisa Martins (Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA)).</p>
STR-05	<p>Synthesis of PtSn/C catalysts with high degree of alloying and enhanced activity for ethanol oxidation</p> <p><i>Authors</i> : Denis Ricardo Martins de Godoi (Instituto de Química, Universidade Estadual Paulista - UNESP); Elisabete Inacio Santiago (Instituto de Pesquisas Energéticas e Nucleares - IPEN/CNEN); Hebe de las Mercedes Villullas (Instituto de Química, Universidade Estadual Paulista - UNESP).</p>

SUR-08	<p>GLYCEROL ELECTRO-OXIDATION: IMPORTANT FEATURES CONCERNING THE NATURE AND STRUCTURE OF MODEL CATALYSTS</p> <p><i>Authors</i> : Janaina Fernandes Gomes (IQSC/USP); Luiz Henrique da Silva Gasparotto (Universidade Federal do Rio Grande do Norte); Fernanda B. C. de Paula (IQSC/USP); Germano Tremiliosi-Filho (IQSC/USP).</p>
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SUR-09	<p>Evaluation of the use of quinones supported on Printex 6L carbon for electrogeneration of H₂O₂</p> <p><i>Authors</i> : Ricardo Valim (IQSC/USP); Rafael Reis (IQSC/USP); Robson Rocha (IQSC/USP); Marcos Lanza (IQSC/USP).</p>
SUR-11	<p>On the use of porous and preferentially oriented {100} Pt electrode in electrocatalysis</p> <p><i>Authors</i> : Daniel Guay (INRS-Énergie, Matériaux, Télécommunications); Sébastien Garbarino (INRS-Énergie, Matériaux, Télécommunications); Erwan Bertin (INRS-Énergie, Matériaux, Télécommunications); Claudie Roy (INRS-Énergie, Matériaux, Télécommunications); Manuel H. Martin (INRS-Énergie, Matériaux, Télécommunications); Alexandre Ponrouch (INRS-Énergie, Matériaux, Télécommunications).</p>
SUR-12	<p>Ni-Au-(Pt/Os) Core-Shell Nanoparticles for Power Generation in Ethanol Fuel Cell</p> <p><i>Authors</i> : César Augusto Duarte Rodrigues (IQSC-USP); K. B. Kokoh (Université de Poitiers); J.-M. Léger (Université de Poitiers); C. Coutanceau (Université de Poitiers); S. Baranton² (Université de Poitiers); J. B. Assis (IQSC-USP); G. Tremiliosi-Filho (QSC-USP).</p>
SUR-14	<p>Investigation of Electrochemical Platinum Oxide Formation using Cyclic Voltammetry and Chronoamperometry</p> <p><i>Authors</i> : Ashley McMath (Queen's University); Julia van Drunen (Queen's University); Gregory Jerkiewicz (Queen's University); Teko W. Napporn (Université de Poitiers).</p>
SUR-17	<p>Surface restructuring of Pt monolayers on vicinal Au(hkl) surfaces</p> <p><i>Authors</i> : Mauricio Javier Prieto (Instituto de Física Gleb Wataghin - UNICAMP); Polina Tereshchuk (Instituto de Física de São Carlos- USP); Juarez Da Silva (Instituto de Física de São Carlos- USP); Germano Tremiliosi-Filho (Instituto de Química de São Carlos- USP).</p>

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FUE-13	<p>The influence of the different treatment of CNT of PtSn/CNT electrocatalysts for direct ethanol fuel cell</p> <p><i>Authors</i> : Fabiana Lopes da Silva Purgato (<i>Universidade de São Paulo</i>); Thiago dos Santos Almeida (<i>Universidade de São Paulo</i>); Livia Martins da Palma (<i>Universidade de São Paulo</i>); Adalgisa Rodrigues de Andrade (<i>Universidade de São Paulo</i>); Paulo Olivi (<i>Universidade de São Paulo</i>).</p>
FUE-14	<p>Influence of alkali cations in the oxidation of glycerol on Pt and Au in alkaline medium</p> <p><i>Authors</i> : Camilo Andrea Angelucci (<i>UFABC</i>); Janaina Fernandes Gomes (<i>IQSC</i>); Hamilton Varela (<i>IQSC</i>); Germano Tremilliosi-Filho (<i>IQSC</i>).</p>
FUE-17	<p>Effect of Sn insertion on Pd/C for ethanol oxidation in alkaline medium</p> <p><i>Authors</i> : Livia Martins da Palma (<i>FFCLRP/USP</i>); Thiago dos Santos Almeida (<i>FFCLRP/USP</i>); Adalgisa Rodrigues de Andrade (<i>FFCLRP/USP</i>).</p>
FUE-18	<p>Pt-based nanocatalysts prepared by the microwave method for glycerol electrooxidation in alkaline medium</p> <p><i>Authors</i> : Livia Martins da Palma (<i>FFCLRP/USP</i>); Rafael Maglia de Souza (<i>FFCLRP/USP</i>); Thiago dos Santos Almeida (<i>FFCLRP/USP</i>); Adalgisa Rodrigues de Andrade (<i>FFCLRP/USP</i>).</p>
FUE-19	<p>THE ETHANOL ELECTROOXIDATION REACTION ON PtRh/C AND PtRhSn/C NANOPARTICLES</p> <p><i>Authors</i> : Luis Carlos da Silva-Junior (<i>Universidade Federal do Mato Grosso do sul</i>); Gilberto Maia (<i>Universidade Federal do Mato Grosso do Sul</i>); Martha Janete Giz (<i>Universidade Federal do Mato Grosso do Sul</i>).</p>
FUE-20	<p>Electrical performances and products distribution of a DEFC operating with Pt/C, PtSn(alloy)/C and PtSnO₂/C as anode electrocatalysts</p> <p><i>Authors</i> : Rodolfo Molina Antoniassi (<i>IPEN-CNEN/SP</i>); Almir Oliveira Neto (<i>IPEN-CNEN/SP</i>); Marcelo Linardi (<i>IPEN-CNEN/SP</i>); Estevam Vitorio Spinacé (<i>IPEN-CNEN/SP</i>).</p>
FUE-23	<p>Rhenium Catalytic Effect on the Binary PtRe/C electrocatalysts in the ethanol oxidation.</p> <p><i>Authors</i> : Fernanda de Almeida Nunes (<i>Universidade Federal do Maranhão</i>); Wanderson Oliveira da Silva (<i>Universidade Federal do Maranhão</i>); Isaide de Araujo Rodrigues (<i>Universidade Federal do Maranhão</i>).</p>
FUE-25	<p>Electrooxidation of ethanol on PtSn/C: catalytic activity in acid and alkaline solutions</p> <p><i>Authors</i> : Elson Almeida de Souza (<i>UFAM</i>); Vanessa Maria Ferreira de Araújo (<i>UFAM</i>); Jamal da Silva Char (<i>UFAM</i>); Raimundo Ribeiro Passos (<i>UFAM</i>).</p>

FUE-27	<p>Electrocatalysis of Alcohol Oxidation on M(111) Surfaces in Alkaline Media</p> <p><i>Authors</i> : Pietro Papa Lopes (<i>Universidade de Sao Paulo; Argonne National Laboratory</i>); Ram Subbaraman (<i>Argonne National Laboratory</i>); Jakub Staszak-Jirkovsky (<i>Argonne National Laboratory</i>); Dusan Strmcnik (<i>Argonne National Laboratory</i>); Edson Antonio Ticianelli (<i>Universidade de Sao Paulo</i>); Vojislav Stamenkovic (<i>Argonne National Laboratory</i>); Nenad Markovic (<i>Argonne National Laboratory</i>).</p>
FUE-28	<p>Oxygen reduction reaction in presence of methanol on platinum-nickel catalysts prepared by an alcohol reduction process</p> <p><i>Authors</i> : U. J. de Castro (<i>Centro de Ciências Exatas e Tecnologia, Universidade Federal do Maranhão</i>); V. A. Paganin (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>); A. A. Tanaka (<i>Centro de Ciências Exatas e Tecnologia, Universidade Federal do Maranhão</i>); E. A. Ticianelli (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>).</p>

KIN-04	<p>Treatment of wastewater contaminated with Rifampicin by Electrochemical Oxidation Processes</p> <p><i>Authors</i> : José Leandro da Silva Duarte (<i>Universidade Federal de Alagoas</i>); Lúcio Moura Gomes (<i>Universidade Federal de Alagoas</i>); Wanessa M. G. Soares (<i>Universidade Federal de Alagoas</i>); Aline Sales (<i>Universidade Federal do Rio Grande do Norte</i>); Carlos Alberto Martinez Huitle (<i>Universidade Federal do Rio Grande do Norte</i>); Lara P. M. Arguelho (<i>Universidade Federal de Sergipe</i>); Carmem Lúcia de Paiva e Silva Zanta (<i>Universidade Federal de Alagoas</i>).</p>
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MAT-25	<p>Pt/CoCu/Pt Metallic Multilayers Nanoarchitected Electrodes for CO and Methanol Electrooxidation</p> <p><i>Authors</i> : Camila Daiane Ferreira da Silva (<i>UFScar</i>); Renato Garcia de Freitas (<i>UFScar</i>); Ernesto Chaves Pereira (<i>UFScar</i>).</p>
MAT-26	<p>Preparation of M-M_xS_y (M = Pt, Rh) Supported Nanoparticles and its Application as Methanol-Tolerant Oxygen Reduction Electrocatalysts</p> <p><i>Authors</i> : Emilia Andrea Carbonio (<i>Instituto de Física 'Gleb Wataghin', Universidade Estadual de Campinas</i>); Ubirajara Pereira Rodrigues-Filho (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>); Alexandre Mesquita (<i>Departamento de Ciências Exatas, Universidade Federal de Alfenas</i>); Ernesto Rafael Gonzalez (<i>Instituto de Química de São Carlos, Universidade de São Paulo</i>).</p>
MAT-27	<p>Development of a voltammetric sensor for simultaneous analysis of catechol and hydroquinone using an electrode modified with manganese phthalocyanine adsorbed on the carbon nanotubes.</p> <p><i>Authors</i> : Saimon Moraes Silva (<i>UFVJM</i>); Dayana Alves Rodrigues (<i>UFVJM</i>); Flavio Santos Damos (<i>UFVJM</i>); Rita de Cássia Silva Luza (<i>UFVJM</i>).</p>

MAT-28	<p>Pt and Pt-Ni nanoparticles on different supports</p> <p><i>Authors</i> : Segey Valerjevich Belenov (Southern Federal University); Vladimir Valerjevich Krikov (Southern Federal University); Larisa Leonidovna Visochina (Southern Federal University); Natalya Yurjevna Tabachkova (National University of Science and Technology «MISIS»); Vladimir Efimovich Guterman (Southern Federal University).</p>
MAT-29	<p>C2 and C3 alcohol oxidation at PtAuSn/C electrocatalysts for DAFCs</p> <p><i>Authors</i> : Thais Aranha de Barros Santoro (Univesity of La Laguna); Marcelo Linardi (Instituto de Pesquisas Energéticas e Nucleares); José Luis Rodríguez (University of La Laguna); Elena Pastor (University of La Laguna).</p>
MAT-30	<p>CO Electroreduction on Ru/C and RuM/C Nanoparticles</p> <p><i>Authors</i> : Pietro Papa Lopes (Universidade de Sao Paulo); Guilherme Gonçalves de Aquino Saglietti (Universidade de São Paulo); Valdecir Antonio Paganin (Universidade de Sao Paulo); Edson Antonio Ticianelli (Universidade de São Paulo).</p>
MAT-31	<p>Electro-oxidation of Ethylene Glycol on Pt/X/Pt (X = Ir or Pt-Ir alloy) Metallic Multilayers</p> <p><i>Authors</i> : Ettore Paredes Antunes (Universidade Federal de São Carlos - Departamento de Química - NANOFAEL); Renato Garcia de Freitas Sobrinho (Universidade Federal de São Carlos - Departamento de Química - NANOFAEL); Ernesto Chaves Pereira (Universidade Federal de São Carlos - Departamento de Química - NANOFAEL).</p>
MAT-32	<p>Electrocatalytic oxidation of homocysteine on iron(II) – xanthurenic acid complex/MWCNT modified electrodes</p> <p><i>Authors</i> : Francisco de Assis dos Santos Silva (Universidade Federal de Alagoas); Cleylton Bezerra Lopes (Universidade Federal de Alagoas); Erivaldo de Oliveira Costa (Universidade Federal de Alagoas); Phabyanno Rodrigues Lima (Universidade Federal de Alagoas); Lauro Tatsuo Kubota (Universidade Estadual de Campinas); Marília Oliveira Fonseca Goulart (Universidade Federal de Alagoas).</p>
MAT-33	<p>Amperometric sensor based on carbon nanotubes and vanilic acid to the simultaneous determination of Ascorbic acid, dopamine and uric acid</p> <p><i>Authors</i> : Leonardo Vieira da Silva (Universidade Federal de Alagoas); Francisco de Assis dos Santos Silva (Universidade Federal de Alagoas); Cleylton Bezerra Lopes (Universidade Federal de Alagoas); Phabyanno Rodrigues Lima (Universidade Federal de Alagoas); Lauro Tatsuo Kubota (Universidade Estadual de Campinas); Marília Oliveira Fonseca Goulart (Universidade Federal de Alagoas).</p>
MAT-35	<p>Development of a sensor for hydrogen peroxide based on carbon nanotubes and cobalt oxide film</p> <p><i>Authors</i> : Cleylton Bezerra Lopes (Universidade Federal de Alagoas); Francisco de Assis dos Santos Silva (Universidade Federal de Alagoas); Phabyanno Rodrigues Lima (Universidade Federal de Alagoas); Lauro Tatso Kubota (Universidade Estadual de Campinas); Marília Oliveira Fonseca Goulart (Universidade Federal de Alagoas).</p>

MAT-36	<p>Electrochemical Treatment of Produced Water by Petrochemical Industry Using Ti/Ru_{0,34}Ti_{0,66}O₂</p> <p><i>Authors</i> : Suely Souza Leal Castro (<i>Universidade do Estado do Rio Grande do Norte</i>); Crislânia Carla Oliveira Morais (<i>Universidade do Estado do Rio Grande do Norte</i>); André Jailson Cabral Silva (<i>Universidade do Estado do Rio Grande do Norte</i>); Carlos Alberto Martínez-Huitle (<i>Universidade Federal do Rio Grande do Norte</i>); Carmem Lúcia Paiva e Silva Zanta (<i>Universidade Federal de Alagoas</i>).</p>
MAT-37	<p>Electrochemical treatment of water supply channel of shrimp farm Using Ti/Pt, Ti/Ru_{0,34}Ti_{0,66}O₂ and BDD</p> <p><i>Authors</i> : Suely Souza Leal de Castro (<i>Universidade do Estado do Rio Grande do Norte</i>); Francisco Leonardo Gomes Menezes (<i>Universidade do Estado do Rio Grande do Norte</i>); Carlos Alberto Martínez-Huitle (<i>Universidade Federal do Rio Grande do Norte</i>); Carmem Lúcia Paiva Silva Zanta (<i>Universidade Federal de Alagoas</i>); Janete Jane Fernandes Alves (<i>Universidade do Estado do Rio Grande do Norte</i>).</p>
MAT-38	<p>Films of Poly(azulen-thienyl-pyridine) for Voltammetric Sensing</p> <p><i>Authors</i> : Eleonora-Mihaela Ungureanu (<i>University Politehnica of Bucharest</i>); George-Octavian Buica (<i>University Politehnica of Bucharest</i>); Liviu Birzan (<i>Institute of Organic Chemistry CD Nenitzescu of Romanian Academy</i>); Alexandru Razus (<i>Institute of Organic Chemistry CD Nenitzescu of Romanian Academy</i>); Cristina andreea Amarandei (<i>University Politehnica of Bucharest</i>).</p>
MAT-39	<p>HollowCore@NiPtShell Nanostructured Electrocatalyst for the Ethanol Electro-oxidation Reaction</p> <p><i>Authors</i> : Daniel Augusto Cantane (<i>University of São Paulo</i>); Francisca Elenice Rodrigues de Oliveira (<i>University of São Paulo</i>); Sydney Ferreira dos Santos (<i>University Federal of ABC</i>); Fábio Henrique Barros de Lima (<i>University of São Paulo</i>).</p>
MAT-40	<p>DEVELOPMENT OF Rh AND Ru-MODIFIED Ni/YSZ CATALYSTS FOR THE ETHANOL STEAM REFORMING IN ANODE OF SOLID OXIDE FUEL CELLS</p> <p><i>Authors</i> : Drielly Cristina Oliveira (<i>Instituto de Química de São Carlos - Universidade de São Paulo</i>); Margarida Juri Saeki (<i>Instituto de Biociências de Botucatu - Universidade Estadual Paulista</i>); Elisabete Moreira Assaf (<i>Instituto de Química de São Carlos - Universidade de São Paulo</i>); Fabio Henrique Barros de Lima (<i>Instituto de Química de São Carlos - Universidade de São Paulo</i>).</p>

POR-05	<p>Analysis of performance in polymer electrolyte fuel cells with different cathode flow-field designs</p> <p><i>Authors</i> : Raimundo Ribeiro Passos (<i>UFAM</i>); Luciana de Souza Freire (<i>UFAM</i>); Roberta Alvarenga Isidoro (<i>IPEN/USP</i>); Elisabete Inácio Santiago (<i>IPEN/USP</i>); Marcelo Linardi (<i>IPEN/USP</i>); Jamal da Silva Chaar (<i>UFAM</i>).</p>
POR-06	<p>Structural and Electrochemical Properties of Nickel and Inconel Alloy Foams</p> <p><i>Authors</i> : Julia van Drunen (<i>Queen's University</i>); Ashley McMath (<i>Queen's University</i>); Brandy Kinkead (<i>Simon Fraser University</i>); Micheal C.P. Wang (<i>Simon Fraser University</i>); Byron D. Gates (<i>Simon Fraser University</i>); Gregory Jerkiewicz (<i>Queen's University</i>).</p>

POR-07	<p>EVALUATION OF ELECTROCHEMICAL SYSTEMS FOR THE TREATMENT OF COCONUT INDUSTRIAL EFFLUENT</p> <p><i>Authors</i> : LÚCIO DE MOURA GOMES (UFAL); JOSÉ LEANDRO DA SILVA DUARTE (UFAL); WANESSA MOURA GALVÃO SOARES (UFAL); JOSEALDO TONHOLO (UFAL); CARMEM LÚCIA DE PAIVA E SILVA ZANTA (UFAL).</p>
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STR-06	<p>An IL-TEM study on the migration of Pt/C nanocrystallites under oxidizing, reducing and inert atmosphere</p> <p><i>Authors</i> : Dubau Laetitia (Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces); Zhao Zuzhen (Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces); Castanheira Luis (Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces); Maillard Frédéric (Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces).</p>
STR-09	<p>Use of Electrocatalytic Properties to Characterize Fuel Cell Components</p> <p><i>Authors</i> : Renate Hiesgen (Hochschule Esslingen); Sebastian Lakotta (Hochschule Offenburg); Andreas Friedrich (German Aerospace Center); Stefan Helmlly (German Aerospace Center); Tobias Morawietz (hochschule Esslingen).</p>

SUR-18	<p>Electrocatalytic Properties of Pt Nanostructures Supported on Insulating Diamond Particles</p> <p><i>Authors</i> : David Fermin (University of Bristol).</p>
SUR-19	<p>Photoactive hematite nanorod arrays for hydrogen generation</p> <p><i>Authors</i> : Flavio Leandro de Souza (Universidade Federal do ABC); Lucas Costa Castro Ferraz (Universidade Federal do ABC); Waldemir Moura de Carvalho Junior (Universidade Federal do ABC).</p>
SUR-20	<p>Glycerol Electrooxidation onto Pt(111) and Pt(110) Modified by Iridium Submonolayers</p> <p><i>Authors</i> : Vinicius Del Colle (Universidade Federal de Alagoas-Campus Arapiraca); Amaury Franklim Benvindo Barbosa (Universidade de São Paulo-IQSC); Janaina Fernandes Gomes (Universidade de São Paulo-IQSC); Germano Tremiliosi-Filho (Universidade de São Paulo, IQSC).</p>
SUR-22	<p>Development of a sensor for hydrogen peroxide based on carbon nanotubes and cobalt oxide film</p> <p><i>Authors</i> : Lopes, C.B. (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Instituto Federal de Alagoas, Instituto Nacional de Ciência e Tecnologia de Bioanalítica); Silva, F.A.S. (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Instituto Nacional de Ciência e Tecnologia de Bioanalítica); Lima, P.R. (Instituto Federal de Alagoas, Instituto Nacional de Ciência e Tecnologia de Bioanalítica); Kubota, L.T. (Instituto de Química, Unicamp; Instituto Nacional de Ciência e Tecnologia de Bioanalítica); Goulart, M.O.F. (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Instituto Nacional de Ciência e Tecnologia de Bioanalítica).</p>

SUR-23	<p>Electrocatalytic oxidation of homocysteine on iron(II) – xanthurenic acid complex/MWCNT modified electrodes</p> <p><i>Authors : SILVA, F. A. S. (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Instituto de Química, UNICAMP, Instituto Nacional de Ciência e Tecnologia de Bioanalítica); LOPES, C.B. COSTA, E.O. LIMA, P.R. KUBOTA, L.T. GOULART, M. O. F.</i></p>
SUR-24	<p>Amperometric sensor based on carbon nanotubes and vanilic acid to the simultaneous determination of ascorbic acid, dopamine and uric acid</p> <p><i>Authors : Silva, L.V. (Instituto de Química e Biotecnologia, Universidade Federal de Alagoas, Instituto Nacional de Ciência e Tecnologia de Bioanalítica); Silva, F.A.S. Lopes, C.B. Kubota, L.T. Lima, P.R. Goulart, M.O.F.</i></p>