

Program of the
24th Topical Meeting
of the
International Society of
Electrochemistry

Electrochemical Assembly at the Meso, Nano and
Molecular Scale

7-10 April 2018
Mérida, Mexico

Organized by:
Division 4 Electrochemical Materials Science
Division 6 Electrochemical Process Engineering and Technology
ISE Region Mexico



International Society of Electrochemistry
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Switzerland

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Linda González-Gutiérrez, *CIDETEQ, Mexico (co-chair)*

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Sunday 7 April 2019

17:40 to 17:50

Opening Ceremony

Chaired by: Ignacio González

17:50 to 18:30 Keynote

Lo Gorton (*Department of Biochemistry and Structural Biology, Lund University, Lund, Sweden*)

[Increased Efficiency of Direct Electron Transfer between Redox Enzymes and Electrodes based on Mesoporous and Nanostructured Electrodes](#)

18:30 to 19:00 Invited

Felipe J. González-Bravo (*Departamento de Química, Centro de Investigación y Estudios Avanzados del IPN, Mexico City, Mexico*), Pablo Astudillo-Sánchez, Carlos Frontana-Vázquez, Nadia Gamboa-Valero, Daniel Morales-Martínez

[Electrochemistry of the Quinone-Hydroquinone System; Formation of Association Complexes and Modification of Glassy Carbon Surfaces](#)

19:15 to 20:30

Welcome Reception

Monday 8 April 2019 - Morning

Chaired by: Gerko Oskam, Bunsbo Ohtani

08:10 to 08:50 Keynote

Reginald Penner (*Chemistry, University of California, Irvine, Irvine, USA*)

[Introducing The Virus Bioresistor: The World's Simplest Biosensor](#)

08:50 to 09:20 Invited

Manuel Palomar-Pardavé (*Materiales, Universidad Autónoma Metropolitana-Azcapotzalco, Mexico City, Mexico*)

[Mechanistic and Kinetic Aspects of the Electrochemical Nucleation and Growth of Metallic Nanoparticles From Deep Eutectic Solvents](#)

09:20 to 09:40

Coffee Break

09:40 to 10:00

Tom Breugelmans (*Research Group Advanced Reactor Technology, University of Antwerp, Wilrijk, Belgium*), Nejc Hodnik, Bart Vanrenterghem

[New concepts to increase the stability of electrodeposited catalytic nanoparticles](#)

10:00 to 10:20

Marek Mooste (*Institute of Chemistry, University of Tartu, Tartu, Estonia*), Elo Kibena-Pöldsepp, Vambola Kisand, Mati Kook, Andres Krumme, Leonard Matisen, Maido Merisalu, Väino Sammelselg, Kaido Tammeveski, Viktoria Vassiljeva

[Electrocatalysts for the Oxygen Reduction Reaction Based on Electropun Multi-walled Carbon Nanotube and Styrene-Acrylonitrile Copolymer Composite Fibres](#)

10:20 to 10:40

Antonella Badia (*Chemistry, Université de Montréal, Montréal, Canada*), Eric Dionne, Christopher Dip, Yanqi Feng

[Parity Effects in the Redox Properties and Electrochemomechanics of Self-Assembled Monolayers of Ferrocenylalkanethiolates](#)

10:40 to 11:00

Jorge Vazquez-Arenas (*Chemistry, Universidad Autonoma Metropolitana, Mexico city, Mexico*), Arturo Manzo-Robledo, Ricardo Palma-Goyes

[Estimating fraction-pH diagram of electro-generated chlorine species](#)

11:00 to 11:20 Coffee Break

11:20 to 11:50 Invited

Luis Gerardo Arriaga (*Centro de Investigación y Desarrollo Tecnol. en Electroq., Parque Tecnológico Querétaro, Querétaro, Mexico*)

[3D Electrocatalytic Materials for Electrochemical Energy Conversion Systems](#)

11:50 to 12:10

Sunpet Assavapanumat (*Molecular Science and Engineering, Vidyasirimedhi Institute of Science and Technology (VISTEC), Rayong, Thailand*), Patrick Garrigue, Bertrand Goudeau, Alexander Kuhn, Veronique Lapeyre, Adeline Perro, Neso Sojic, Chularat Wattanakit, Thittaya Yutthalekha

[Potential induced fine-tuning the enantioaffinity of electrochemically engineered chiral metal surfaces](#)

12:10 to 12:30

David Peralta (*LITEN, CEA, Grenoble, France*), Benjamin Amestoy, Didier Bloch, Adrien Boulineau, Carole Bourbon, Jean-François Colin, Jean-Louis Ferrandis, Sebastien Patoux, Roger Pellenc, Yvan Reynier, Jeremie Salomon, Celine Tisseraud, Eric de Vito

[Use of metal fluoride coatings to enhance the Li-Ion material performances](#)

12:30 to 12:50

Gregorio Guzmán (*Ingeniería de Procesos e Hidráulica, Autónoma Metropolitana Unidad Iztapalapa, México, Mexico*)

[Self-assembly of Si, Ti and Zr alkoxides with PEG-400 units linked by sp³ boron atoms to improve ionic conductivity on single Li⁺ conducting polymer electrolytes](#)

12:50 to 13:10

Miguel Angel Martinez Cruz (*Departamento de Quémica, Universidad Autonoma Metropolitana, Ciudad de Mexico, Mexico*), Ignacio González, Guadalupe Ramos Sánchez

[Synthesis of copper and lithium oxide modified with nickel as active material of lithium ion batteries](#)

Monday 8 April 2019 - Afternoon

Chaired by: M. Palomar Pardavé and J. Rodríguez

14:40 to 15:10 Invited

Bunsho Ohtani (*Institute for Catalysis, Hokkaido University, Sapporo, Japan*)

[Identification and Characterization of Metal-oxide Materials Using Newly Developed Reversed Double-beam Photoacoustic Spectroscopy](#)

15:10 to 15:30

Jan Macak (*Center of Materials and Nanotechnologies, University of Pardubice, Pardubice, Czech Republic*), Filip Dvorak, Milos Krbal, Siowwoon Ng, Jan Prikryl, Hanna Sopha, Raul Zazpe

[Noble Metal Decorated Anodic TiO₂ Nanotubes: Excellent \(Electro\)catalyst](#)

15:30 to 15:50

Sander Neukermans (*ART Research Group, University of Antwerp, Antwerp, Belgium*), Thomas Altantzis, Tom Breugelmans, Christophe De Jongh

[Electrocatalytic reduction of aromatic bromides at silver nanoparticles: size matters](#)

15:50 to 16:10

Fabian-Ernesto Quesada-Plata (*Departamento de Ciencias Básicas, Unidades Tecnológicas de Santander, Bucaramanga, Colombia*), Diego Cazorla-Amoros, Emilia Morallón, Ramiro Ruiz-Rosas

[N-Doped Activated Carbons Obtained from Biomass Wastes through Hydrothermal Process in Presence of PANI](#)

16:10 to 16:30

Wei Zhou (*School of Chemistry, Beihang University, Beijing, China*), Tong Liu, Chengxing Lu, Zhaoliang Shi

[Interfacial Control of Nanostructure for Improved Electrochemical Performance](#)

16:30 to 16:50

Coffee Break

16:50 to 17:20 Invited

Alexey Popov (*Nanoscale Chemistry, Leibniz Institute for Solid State and Materials Research, Dresden, Germany*)

[Spectroelectrochemistry of Functionalized Carbon Cages](#)

17:20 to 17:40

Miguel Arellano (*Ingenieria Quimica, Facultad de Estudios Superiores Zaragoza, Ciudad de Mexico, Mexico*), Ignacio Gonzalez

[Electrodeposition of Ti-Ni-Pd alloy used for cathode in the electrocatalytic hydrodehalogenation of 2-chlorophenol in buffer solution and wastewater](#)

17:40 to 18:00

Piret Pikma (*Institute of Chemistry, University of Tartu, Tartu, Estonia*), Enn Lust, Carolin Siimenson

[In situ STM and break-junction measurements on Cd\(0001\) under electrochemical conditions](#)

18:00 to 18:20

Antony Bazan-Aguilar (*Faculty of Science, Universidad Nacional de Ingenieria, San Martin de Porres, Peru*), Angelica Marea Baena-Moncada, Sergio Díaz Coello, Elena Pastor Tejera, Luis M. Rivera Gavidia

[Lyotropic liquid crystal-assisted synthesis of supported Ni and NiCo electrocatalysts for hydrogen evolution reaction](#)

18:30 to 20:00

[Poster Session](#)

Tuesday 9 April 2019 - Morning

Chaired by: Felipe J González-Bravo and Philippe Hapiot

08:10 to 08:50 Keynote

Yogesh Surendranath (*Chemistry, Massachusetts Institute of Technology, Cambridge, USA*)

[Bridging Molecular and Heterogeneous Electrocatalysis Through Graphite Conjugation](#)

08:50 to 09:20 Invited

Jiri Ludvik (*Molecular Electrochemistry and Catalysis, J. Heyrovský Institute of Physical Chemistry, CAS, Prague, Czech Republic*), Ludmila Simkova

[1,3-Diphenylisobenzofuran based chromophores for singlet fission - electrochemical investigation](#)

09:20 to 09:40

Coffee Break

09:40 to 10:00

Marisela Cruz (*Posgrado, Hacienda Pasteje No.24, San Juan Del Rão, Mexico*), Luis Antonio Ortiz Frade

[Effect of molecular interactions on the homogenous electron transfer between GOD and Fe\(II\) complexes](#)

10:00 to 10:20

Leslie Rocio Arias Aranda (*Physical Chemistry, National University of Mexico (UNAM), Mexico, Mexico*), Norma Angelica Macias Ruvalcaba

[Electrochemical oxidation behavior of octaethylporphyrin \(H₂OEP\) in benzonitrile](#)

10:20 to 10:40

Juan Pablo Francisco Rebolledo-Chavez (*Bioinorganic Electrochemistry, CIDETEQ, Pedro Escobedo, Mexico*), Carlos Frontana-Vazquez, Luis Antonio Ortiz-Frade

[Molecular Catalysis of CO₂ with Ni\(II\)-Polypyridine complexes](#)

10:40 to 11:00

Armando Espinoza Gálvez (*Electroquímica, CIDETEQ, Pedro Escobedo, Mexico*), Carlos Frontana-Vazquez, Julieta Torres González

[Electrochemical and morphological study of phase formation and nuclei assembly during Cr\(III\) deposition](#)

11:00 to 11:20 Coffee Break

11:20 to 11:50 Invited

Philippe Hapiot (*Institut des Sciences Chimiques de Rennes, Université de Rennes 1, Rennes, France*), Corinne Lagrost, Yann Leroux

[Molecular Nano-structuration of Carbon Interfaces Through Aryldiazonium electrochemistry](#)

11:50 to 12:10

Shiroma Perera (*Chemistry, University of Leicester, Leicester, United Kingdom*), Robert Hillman, Karl Ryder, Christopher Zaleski

[Nucleation and growth of electrodeposited Bi and Bi alloy films from deep eutectic solvents](#)

12:10 to 12:30

Jan-Carlo Diaz (*Direccion de Ciencia, CIDETEQ, Pedro Escobedo, Mexico*), Jannu Ricardo Casanova-Moreno, Ricardo Antonio Escalona-Villalpando

[Comparison Between two Methodologies for Modification of Polycrystalline Gold Electrodes for Glucose Enzymatic Biosensing](#)

12:30 to 12:50

Sandra Viveros (*Centro de Investigacion en Ingeniería y Ciencias Aplicadas, Universidad Autónoma del Estado de Morelos, Cuernavaca, Mexico*), Carmina Menchaca, Jorge Uruchurtu

[Study of the Inhibiting Efficiency of an ABS Coating Doped with Lansoprazole on Mild Steel](#)

12:50 to 13:10

Jorge Iván Aldana-González (*Materiales, Universidad Autónoma Metropolitana, Mexico, Mexico*), Iván Campos-Silva, Luis Lartundo-Rojas, Tu Le Manh, Ivvone Mejía-Caballero, Manuel Palomar-Pardavé, Edelmira Rodríguez-Clemente, Mario Romero-Romo, William Sánchez-Ortíz

[Chromium Electrodeposition onto Glassy Carbon from a Deep Eutectic Solvent Under Forced Convection Conditions](#)

Tuesday 9 April 2019 - Afternoon

Chaired by:

14:40 to 15:10 Invited

Joaquin Rodríguez-Lopez (*Department of Chemistry, University of Illinois at Urbana-Champaign, Urbana, USA*), Annie Jiang, Noah B. Schorr

[SECM Imaging of Reactivity Gradients on Electrochemically Transparent Graphene Electrodes](#)

15:10 to 15:30

Deysi Gomez-Cholula (*Departamento de Quémica, Universidad Autonoma Metropolitana, Ciudad de Mexico, Mexico*), Ignacio González, Guadalupe Ramos-Sánchez

[Modification of Carbon Nanofibers with M-N \(M=Co, Ni and Fe\) as Electrocatalysts for the Oxygen Reduction Reaction with Applications in Energy Storage](#)

15:30 to 15:50

Carlos Juarez Yesca (*Departamento de Quémica, Universidad Autonoma Metropolitana, Ciudad de Mexico, Mexico*), Ignacio González, Guadalupe Ramos-Sánchez

[Electrochemical synthesis of \$\text{Na}_{1+x}\text{Cu}^{2-x}\text{O}_2\$ for sodium ion batteries](#)

15:50 to 16:10

Arturo Carreon Escamilla (*Ciencias Quámico Biológicas, Fundacion Universidad de las Americas Puebla, San Andreas Cholula, Mexico*), Lucila Castro-Pastrana, Monica Cerro-Lopez, Carlos Martinez-Huitle, Marco Quiroz

[Comparative Study on the Electrocatalytic Behavior of \$\text{TiO}_2\$ Nanotubes Electrodes Decorated with Highly Dispersed \$\text{PbO}_2\$ towards Electrooxidation of Ibuprofen and Selected Dyes: Preliminary Results](#)

16:10 to 16:30

Erbin Guillermo Uc Cayetano (*Facultad de Ingeniería Química, Universidad Autónoma de Yucatán, Mérida, Mexico*), Óscar Efrén Aké Uh, Manuel Alejandro Estrella Gutiérrez, Mónica Noel Sánchez González, Ivan Emmanuel Villanueva Mena

[Development of amperometric biosensors based in decorated with iron oxide carbon nanotubes and enzymes](#)

16:30 to 16:50 Coffee Break

16:50 to 17:20 Invited

Alexander Kuhn (*ENSCBP, University Bordeaux, Pessac, France*)

[Bipolar electrochemistry as a versatile tool for generating functional coatings](#)

17:20 to 17:40

Emmanuel Mena-Morcillo (*Applied Physics Department, Center for Investigation and Advances Study, Merida, Mexico*), Juan Carlos Castro-Alcantara, Mariana Cerda-Zorrilla, Montserrat Soria-Castro, Lucien Veleva

[Organic Coating of Chitosan Nanospheres on AZ31 Magnesium Alloy: Corrosion Resistance in SBF and Antibacterial Properties](#)

17:40 to 18:00

Georg Gorbatovski (*Institute of Chemistry, University of Tartu, Tartu, Estonia*), Heili Kasuk, Enn Lust, Ove Oll, Piret Pikma

[Adsorption of Bipyridine at Semi-Metallic Sb\(111\) Plane: an In Situ Scanning Tunnelling Microscopy Study](#)

18:00 to 18:20

Miguel Arellano (*Ingenieria Quimica, Facultad de Estudios Superiores Zaragoza, Ciudad de Mexico, Mexico*), Ignacio Gonzalez

[Characterization of Selemion cation-exchange membrane through electrochemical impedance spectroscopy \(EIS\)](#)

18:20 to 18:40

Angelica Marea Baena Moncada (*Facultad de Ciencias, Universidad Nacional de Ingenieria, Lima, Peru*), Antony Bazan Aguilar, Clemente Luyo

[Meso/microporous electrodes based on modified-carbon fibers with reduced graphene oxide for novel energy storage systems](#)

19:00 to 21:00

[BANQUET](#)

Wednesday 10 April 2019 - Morning

Chaired by: Luis G. Arriaga and A. Kubn

08:10 to 08:50 Keynote

Margarita Miranda Hernandez (*Instituto de Energías Renovables, Universidad Nacional Autónoma de México, Temixco, México*)

[Design electrocatalytic interfaces chemical-biological at the nano and microscale for the immobilization of biomolecules](#)

08:50 to 09:20 Invited

Gerko Oskam (*Department of Applied Physics, CINVESTAV-IPN, Mérida, México*)

[Photoelectrochemistry of Semiconducting Oxide Materials for Solar Water Splitting: Characterization of Charge Transfer and Recombination Processes Using Intensity-Modulated Photocurrent Spectroscopy](#)

09:20 to 09:40

Coffee Break

09:40 to 10:00

Masa-aki Haga (*Department of Applied Chemistry, Chuo University, Kasuga 1-13-27, Bunkyo-ku, Japan*), Daisuke Motoyama, Takumi Nagashima, Hiroaki Ozawa

[Electrochemical Functions of Surface Coordination Network Films on ITO Electrode](#)

10:00 to 10:20

Fatma Fezai (*Département Procédés Electrochimiques, Laboratoire de Génie Chimique, Université de Toulouse, CNRS, Toulouse, France*), David Evrard, Pierre Gros, Martine Meireles

[Gold Nanoparticles electrodeposition on functionalized glassy carbon electrode for Hg\(II\) trace sensing](#)

10:20 to 10:40

Pascal Martin (*ITODYS, University of Paris, France*)

[Mixed nanostructured layers with Tailored Switchable properties: Bottom-Up Approaches](#)

10:40 to 11:00

Vinicius Cruz-San Martin (*Bristol Centre for Functional Nanomaterials, University of Bristol, Bristol, United Kingdom*), Andrei Sarua, Natasa Vasiljevic

[Electrochemical Design of Nanoporous Gold With Tunable Porosity](#)

11:00 to 11:20 Coffee Break

11:20 to 11:50 Invited

Tom Hauffman (*Electrochemical and Surface Engineering, Vrije Universiteit Brussel, Brussels, Belgium*), Francesca Cavezza, Annick Hubin, Sven Pletincx, Herman Terryn

[Synthesis and Failure of Hybrid Organic-Inorganic Structures: a Combined Electrochemical – Chemical Analysis Approach](#)

11:50 to 12:10

Gerardo Salinas (*Bordeaux INP, site ENSCBP, University of Bordeaux, ISM, Pessac, France*), Bernardo Antonio Frontana-Uribe, Patrick Garrigue, Alexander Kuhn, Stéphane Reculosa

[Highly Ordered Macroporous Poly-3,4-ortho-xylendioxythiophene Electrodes as a Sensitive Analytical Tool for Heavy Metal Quantification](#)

12:10 to 12:30

Dora Mariana Garduño-Jiménez (*Electrosíntesis y Electroquímica, Centro Conjunto de Investigación en Química Sustentable UNAM, Toluca, Mexico*), Andrés Aguilar-Granda, Bernardo Antonio Frontana-Uribe, Braulio Rodríguez-Molina

[Synthesis and characterization of conducting polymers derived from bis-carbazole bridged with \$\pi\$ -systems](#)

12:30 to 12:50

Chularat Wattanakit (*Department of Chemical and Biomolecular Engineering, Vidyasirimedhi Institute of Science and Technology, Rayong, Thailand*), Sunpet Assavapanumat, Sapon Butcha, Alexander Kuhn, Veronique Lapeyre, Thittaya Yutthalekha

[Enantioselective Electron Transfer at Mesoporous Metal Interfaces](#)

12:50 to 13:10

Ibeth Rivera (*Materials, Universidad Autonoma de Morelos, Cuernavaca, Mexico*), Jorge Uruchurtu

[Use of the shrimp exoskeleton as a biopolymer for applications in reinforced concrete.](#)

Poster Presentations

001

Daniel Ramirez (*Química, Centro de Investigación y de Estudios Avanzados del IPN, Ciudad de México, México*)

[Modification of Carbon Surfaces by Self-mediated Oxidation of Ferroceneheptanoate Ions: Cyclic Voltammetry of the Electrocatalytic Films](#)

002

Isabel Acevedo (*Antioquia, UdeA, Medellín, Colombia*), Lucas Blandón, Silvia Gutierrez Granados, Mario Vázquez

[Detection and Electrochemical Quantification of Yeast. Study Model: Saccharomyces cerevisiae](#)

003

Jorge Iván Aldana-González (*Materiales, Universidad Autónoma Metropolitana, México, México*), E. M. Arce-Estrada, Tu Le Manh, Irvone Mejía-Caballero, Jorge Mostany, Manuel Palomar-Pardavé, María Teresa Ramírez-Silva, Mario Romero-Romo

[Influence of Magnetic Fields on the Cobalt Electrodeposition from a Deep Eutectic Solvent](#)

004

Yenny Allcca (*Lima, Universidad Nacional de Ingeniería, Lima, Perú*)

[Development and optimization of Cu@Ag on Ti cathode and Ti-IrO₂ anode for electrochemical removal of nitrate from waste water](#)

005

Angelica Maria Baena Moncada (*Lima, Universidad Nacional de Ingeniería, Lima, Perú*), Andy Alfredo Cardenas Riojas, Adolfo La Rosa-Toro Gomez

[Hierarchical Porous Carbon modified with Silver Sulfide Nanoparticles for the determination of cyanide in river water samples](#)

006

Arely Cardenas (*Chemistry Faculty, CONACYT-Autonomous University of Queretaro, Queretaro, México*), Perla J. Juarez-Luna, Sandra Mendoza-Diaz

[Electrochemical Quantification of Antioxidants in Food by CUPRAC, DPPH Methods and Carbon Paste Electrodes](#)

007

Andy Alfredo Cardenas Riojas (*Lima, Universidad Nacional de Ingenieria, Lima, Peru*), Angelica Maria Baena Moncada, Adolfo La Rosa Toro Gomez

[Potentiometric Sensor based on Silver Sulfide Nanoparticles supported in Carbon Materials for the Detection of Free Cyanide](#)

008

Arturo Carreón Escamilla (*Ciencias Quamico Biologicas, Universidad de las Américas-Puebla, San Andres Cholula, Mexico*), Lucila Castro-Pastrana, Monica Cerro-Lopez, Carlos Martinez-Huitle, Marco Quiroz

[Comparative Study on the Electrocatalytic Behavior of TiO₂-Nanotubes Electrodes Decorated with Highly Dispersed PbO₂ towards Electrooxidation of Ibuprofen and Selected Dyes: Preliminary Results](#)

009

Silvia Cazares Moreno (*Instituto de Ingeniería, Universidad Nacional Autónoma de México, México, Mexico*), Jose A. Barrios-Perez, Anaïd Cano, Lilian E. Dominguez-Montero, Blanca Jimenez-Cisneros, Catalina Maya-Rendon, Gustavo A. Velasquez-Rodriguez

[Electrochemical pre-treatment of sludge: effect on particle size distribution and morphology.](#)

010

Abraham Chavez (*SEQE, CIDETEQ, Queretaro, Mexico*)

[Evaluation of flow channels for hydrogen electrochemical compression](#)

011

Anthony Cornejo Herrera (*Faculty of Science, Universidad Nacional de Ingenieria, Rimac, Peru*), Angelica Marea Baena Moncada, Antony Bazan Aguilar, Clemente Luyo Caycho

[SiO₂-covered carbon fibers electrodes as double layer electrical capacitors](#)

012

Cristina Corona Elizarrarás (*Chemistry, University of Guanajuato, Guanajuato, Mexico*), Fethi Bedioui, Sophie Griveau, Silvia Gutiérrez Granados, Patricia Olmos Moya

[Study of an ultramicroelectrode modified with PEDOT and SOD as a biosensor for superoxide anion](#)

013

Karla De la Cruz (*Sistemas Biologicos, Universidad Autonoma Metropolitana, Mexico, Mexico*), Georgina Alarcón-Angeles, Martín Gómez Hernandez, Jiri Kudr, Arbén Merkoci, Amadeo Sena

[An electrochemical method based on a reduced graphene oxide \(rGO\) electrode to produce two tinidazole metabolites](#)

014

Fernando Espinola (*Department of natural and exact sciences, Universidad de Guanajuato, Guanajuato, Mexico*), Cynthia Agreda, Silvia Gutierrez Granados, Gonzalo Ramirez

[Luminescent nanoparticles with pH-responsive polymeric coatings for the diagnosis and controlled drug release](#)

015

Francy Catalina García Rueda (*Master's degree in electrochemistry, CIDETEQ, Centro de investigación en Electroquímica, Pedro Escobedo, Mexico*), Julieta Torres González

[Electropolymerization and Characterization of Polypyrrole Coatings on Anodized 2024-T3 Aluminum](#)

016

Edison Gilpavas (*Ingeniería de procesos, Universidad Eafit, Medellín, Colombia*), Santiago Correa-sanchez

[Optimization of heterogeneous electro-Fenton process for textile wastewater treatment using scrap zero valent iron](#)

017

Mateusz Gocyla (*Modified electrodes, Institute of Physical Chemistry Polish Academy of Sciences, Warsaw, Poland*), J. Dolinska, N. Rostkowska, Marcin Opallo

[Electrochemical Behaviour of Carbon Nanoparticles Suspension in Flow](#)

018

Linda Gonzalez-Gutierrez (*Dirección de ciencia, CIDETEQ, Pedro Escobedo, Mexico*)

[Functionalized non-electroactive organic materials for metal uptake: analysis through carbon paste electrodes](#)

019

Dafne Sarahia Guzman-Hernandez (*Analytical Chemistry, CONACYT-Universidad Autonoma Metropolitana, Mexico, Mexico*), Silvia Corona-Avenidaño, Manuel Palomar-Pardavé, Maria Teresa Ramirez-Silva, Mario Romero-Romo, Fernando Sanchez-Perez

[Characterization and electrochemical determination of the routine in aqueous medium](#)

020

Gabriela Hernandez Padilla (*Bioelectrochemistry, CIDETEQ, Queretaro, Mexico*)

[Study of the processes of electronic transfer of the oxidation of glycerol with the enzyme galactose oxidase \(GAO\) and coordination compounds](#)

021

Fidel Hernandez-Perez (*Dirección de Ciencia, CIDETEQ SC, Pedro Escobedo, Mexico*), Carlos Frontana-Vazquez

[Non innocent behavior of substituent in electrogenerated bases of -1,8-disubstituted anthraquinones: Thermodynamic stabilization anions via intermolecular hydrogen bonding](#)

022

Yolina Hubenova (*Electrocatalysis and Electrocrystallization, Institute of Electrochemistry and Energy Systems – BAS, Sofia, Bulgaria*), Eleonora Hubenova, Mario Mitov

[Redox active dyes modifications of electrodes for MFC application](#)

023

Yolina Hubenova (*Electrocatalysis and Electrocrystallization, Institute of Electrochemistry and Energy Systems - BAS, Sofia, Bulgaria*), Eleonora Hubenova, Mario Mitov

[Electroactive biofilm formation of *Paenibacillus dendritiformis* MA-72](#)

024

L. Juarez-Marmolejo (*De Materiales, Universidad Autonoma Metropolitana- Unidad Azcapotzalco, Ciudad de Mexico, CDMX, Mexico*), E. M. Arce-Estrada, B. Maldonado-Teodocio, Maria Montes de Oca-Yemha, Jorge Mostany, Manuel Palomar-Pardavé, Maria Teresa Ramírez-Silva, Mario Romero-Romo

[On the Palladium Nanoparticles Electrochemical Nucleation and Growth From the Choline Chloride/Urea Eutectic Mixture](#)

025

Kwang Bum Kim (*Materials Science and Engineering, Yonsei University, Seoul, Korea*)

[Electrochemical polymerization of poly\(3,4-ethylenedioxythiophene\) \(PEDOT\) on PEDOT/MnO₂/multiwall carbon nanotube and their pseudocapacitive properties](#)

026

Rosario Lopez (*Fuentes Electroquímicas de Energía, CIDETEQ S.C., Pedro Escobedo, Mexico*)

[Comparison of solid polymer electrolytes for supercapacitor applications \(PVA-KOH and SPEEK\)](#)

027

Jairo Daniel Lozano-Lopez (*Maestría en Ciencia y Tecnología Química, Universidad Autónoma de Zacatecas, Zacatecas, Mexico*), Sergio M. Durón-Torres, Ricardo A. Escalona-Villalpando, Juan de Dios Galindo-de la Rosa, Marisol Galván-Valencia

[Evaluation of Glucose oxidase Immobilized on Carbon Surfaces using Quantum dots as Support Matrix for use in Biosensors and Biofuel cells](#)

028

Jiri Ludvik (*Molecular Electrochemistry and Catalysis, J. Heyrovský Institute of Physical Chemistry, CAS, Prague, Czech Republic*), Lucie Kolacna, Peter Polak, Tomas Tobrman

[Electrochemical study of pyrene-based precursors for organic semiconductors](#)

029

V. A. Medina-Rojano (*De Materiales, Universidad Autónoma Metropolitana-Unidad Azcapotzalco, Ciudad de México, CDMX, Mexico*), J. I. Aldana-Gonzalez, E. M. Arce-Estrada, L. Juárez-Marmolejo, Maria Montes de Oca-Yemha, Manuel Palomar-Pardavé, Mario Romero-Romo

[Electrocatalytic Activity of Palladium-Metal Nanostructures Supported on Graphene Oxide for Formic Acid Oxidation](#)

030

Maria Montes de Oca-Yemha (*Materials, Universidad Autónoma Metropolitana, Mexico, Mexico*), B. Maldonado-Teodocio, Jorge Mostany, Manuel Palomar-Pardave, Maria Teresa Ramírez-Silva, Mario Romero-Romo, B.R. Scharifker

[Copper Nanoparticles Electrodeposition onto Glassy Carbon from a Choline Chloride/Ethylene Glycol Eutectic Mixture and its Analytical Performance towards Nitrate Ions Quantification](#)

031

Maria Montes de Oca-Yemha (*Materials, Universidad Autónoma Metropolitana, Mexico, Mexico*), Jorge Ivan Aldana-González, E. M. Arce-Estrada, M. Landa-Castro, Manuel Palomar-Pardavé, Mario Romero-Romo

[Leaching and recovery of Ni and Co from a spent Ni-MH battery using a deep eutectic solvent](#)

032

Jorge Morales (*Research, CIDETEQ, Pedro Escobedo, Mexico*), Araceli Mandujano, V. Nayelly Martínez

[Wear and corrosion resistant Ni-Ti-B nanocomposite coating by DC magnetron sputtering](#)

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Isaias Murillo Borbonio (*Fuentes electroquímicas de energía, CIDETES S.C., Pedro Escobedo, Mexico*)

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