

Biographical Sketch

AMAL SULEIMAN MAHMOUD HASSAN

Current Status

PhD Candidate

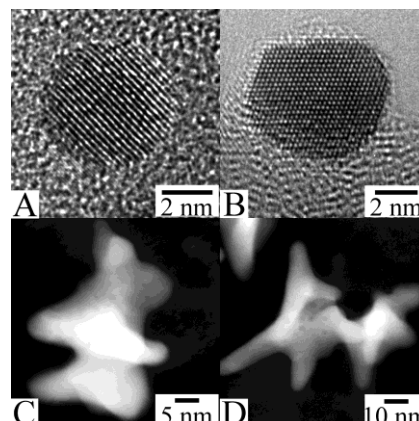
Dept. of Chemistry, UPR-Rio Piedras

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Education

1999-2003 BS Chemistry UPR-Mayagüez

2010-present PhD Analytical Chemistry UPR-Rio Piedras



Current Research Interests: My research has focused on the Platinum Electrodeposition on several conductive materials of Carbon/Zeolites using a Rotating Disk-Slurry Electrode Technique for the Oxidation of Methanol in Alkaline Medium.

Research Experience and Activities

2017 PARADIM Microscopy Summer School at Cornell University
2017 Electrochemistry Workshop at University of Texas
2010-present UPR-Rio Piedras, Research Assistant, (Mentor, Dr. Cabrera)
2009-2010 UPR-Rio Piedras, Teaching Assistance, (Dr. Díaz)
2003 UPR-Mayagüez, Teaching Assistance, (Dr. Padilla)

Honors

2016-present Awarded by the program of Research Initiative for Scientific Enhancement (RISE) at University of Puerto Rico at Rio Piedras
2015 - 2016 Awarded with a fellowship from Institute for Functional Nanomaterials
2014-2015 Awarded with a fellowship from Puerto Rico Nasa Space Grant
2010-2014 Awarded with a fellowship of Center Advance of Nano-Material

Presentation Meetings

- Attend to University of Texas at Austin (2017, February). “2017 CEC Annual Workshop on Electrochemistry”.
- Attend to UPR-Rio Piedras (2016, April). “Effective Communication Skills for Scientists” Workshop administrated by Dr. Melissa Hines from Cornell Center for Materials Research.
- Suleiman,A. (2015, July), “Química de Suelo” Taller de Alianza Ciencias y Matematicas at University of Turabo, Gurabo, PR.
- Suleiman, A. (2015, May). “Platinum-Electrodeposition on Y-Zeolite/Carbon Vulcan XC-72R Support for Methanol Oxidation in Alkaline Media”.Poster presentation at IFN

Education and Outreach, UPR Rio Piedras Campus at "Museo de Historia, Antropología y Arte".

- Suleiman, A. (2015, May). "*Biomimetic Artificial Photosynthesis: Photocatalysts for the Reduction of Carbon Dioxide for the production of Methanol and Methane Fuels*". Presentation at Graduate seminar program, Rio Piedras, PR.
- Suleiman, A. (2015, february), Attended to *Symposium about Renewable energy* at University of Turabo, Gurabo, PR.
- Suleiman, A. (2014, November), "*Platinum-Electrodeposition on Y-Zeolite/Carbon Vulcan XC-72R Support for Methanol Oxidation in Alkaline Media*" Poster presentation at INSTITUTE FOR FUNCTIONAL NANOMATERIALS (IFN) NSF ESPCoR/RII ANNUAL MEETING, Caguas, PR.
- Attend to NECK at UPR-Humacao (2013). Prepare graduate student to increase in the acknowledgments of nanotechnology getting update about technique, preparation and innovation of nanotechnology.
- International symposium on energy in the area of energy sustainability presented by University del Turabo and the US Department of Energy in Gurabo, PR (2012-2014).

Publications

1. Cunci L., Velez C., Perez I., **Suleiman A.**, Larios E., Yacaman M.J., Watkins J. and Cabrera C. "Platinum Electrodeposition at Unsupported Electrochemically Reduced Nanographene Oxide for Enhanced Ammonia Oxidation" *ACS Applied Material & interfaces*, 2014.
2. **Suleiman A.**, Menedez C., Polanco R., Fachini E., Roque-Malherbe R. and Cabrera C. "Platinum-Electrodeposition on Y-Zeolite/Carbon Vulcan XC-72R Support for Methanol Oxidation in Alkaline Media" *RSC journal*, 2014.
3. Rolando Guzmán Blas, **Amal Suleiman**, Carlos R. Cabrera, Luis Echegoyen; "Direct Methanol Fuel Cell, Direct Ethanol Fuel Cell and PEM Fuel Cell using Carbon Nano-Onion/Pt anode electrocatalyst prepared with the RODSE technique" Submit publication-ACS journal 2015.
4. Escobar S., Mendez L., Mendoza F., **Suleiman A.**, Cabrera C., Guavalda S., Weiner B. and Morell G. "Non-microbial Enhanced Nitrate Abatement with SnO₂/Graphene/Graphene Oxide" Submit publication.
5. Dorvilien V., LopezdeVictoria M., Rivera K., **Suleiman A.**, Tripathi Sr B., Mendoza F., Cabrera C., Morell G. and Weiner B.R. "Implementation of Tin Dioxide/Graphene/Graphene Oxide for High Capacity and Long Cycle Life Supercapacitors and As Anode Material for Lithium Ion Batteries" Pending publication.
6. **Suleiman A.**, Menéndez C., Polanco R., Fachini E., Roque-Malherbe R., Garcia J. and Cabrera C. "Platinum-Electrodeposition on ZSM-5 Zeolite/Carbon Vulcan XC-72R Support for Methanol Oxidation in Alkaline Media" Pending publication.
7. **Suleiman A.**, Menéndez C., Polanco R., Fachini E., Roque-Malherbe R., Garcia J. and Cabrera C. "Pt Electrodeposition on ceria/Carbon Vulcan XC-72R support for Methanol Electrooxidation in Alkaline Media" Pending publication.

