

# Samantha Medina

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

380  
citations

840776

11  
h-index

1281871

11  
g-index

24  
all docs

24  
docs citations

24  
times ranked

413  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Dictating Pt-Based Electrocatalyst Performance in Polymer Electrolyte Fuel Cells, from Formulation to Application. ACS Applied Materials & Interfaces, 2019, 11, 46953-46964.  | 8.0  | 80        |
| 2  | Utilizing ink composition to tune bulk-electrode gas transport, performance, and operational robustness for a Fe-N-C catalyst in polymer electrolyte fuel cell. Nano Energy, 2020, 75, 104943.                                     | 16.0 | 60        |
| 3  | Improving the bulk gas transport of Fe-N-C platinum group metal-free nanofiber electrodes via electrospinning for fuel cell applications. Nano Energy, 2020, 73, 104791.   | 16.0 | 47        |
| 4  | Impact of Microporous Layer Roughness on Gas-Diffusion-Electrode-Based Polymer Electrolyte Membrane Fuel Cell Performance. ACS Applied Energy Materials, 2019, 2, 7757-7761.   | 5.1  | 46        |
| 5  | Fabrication of high-performance gas-diffusion-electrode based membrane-electrode assemblies. Journal of Power Sources, 2020, 450, 227581.  | 7.8  | 33        |
| 6  | Coupling High-Throughput Experiments and Regression Algorithms to Optimize PGM-Free ORR Electrocatalyst Synthesis. ACS Applied Energy Materials, 2020, 3, 9083-9088.   | 5.1  | 30        |
| 7  | Toward Optimizing Electrospun Nanofiber Fuel Cell Catalyst Layers: Microstructure and Pt Accessibility. ACS Applied Energy Materials, 2021, 4, 3341-3351.  | 5.1  | 21        |
| 8  | Visualization, understanding, and mitigation of process-induced-membrane irregularities in gas diffusion electrode-based polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2021, 46, 14699-14712. | 7.1  | 20        |
| 9  | Mass transport characterization of platinum group metal-free polymer electrolyte fuel cell electrodes using a differential cell with an integrated electrochemical sensor. Journal of Power Sources, 2020, 450, 227655.            | 7.8  | 17        |
| 10 | Editors'™ Choice™ Examining Performance and Durability of Anion Exchange Membrane Fuel Cells with Novel Spirocyclic Anion Exchange Membranes. Journal of the Electrochemical Society, 2021, 168, 044525.                           | 2.9  | 14        |
| 11 | Impact of electrode thick spot irregularities on polymer electrolyte membrane fuel cell initial performance. Journal of Power Sources, 2020, 466, 228344.  | 7.8  | 12        |
| 12 | In-Situ Electrochemical Techniques to Determine Ionomer Coverage in PEFC Electrodes. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 13 | Membrane Electrode Assembly Fabrication Method Effects on Catalyst Layer Structure, Interfaces, and Performance. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 14 | Electrochemical and Rheological Investigations of Catalyst-Solvent-Polymer Ink Formulations for Electrospun Fuel Cell Electrode Structures. ECS Meeting Abstracts, 2019, , .   | 0.0  | 0         |
| 15 | Electrospinning and MEA Conditioning As a Tool for Designing Optimized Electrode Structures for Fuel Cell Applications. ECS Meeting Abstracts, 2019, , .   | 0.0  | 0         |
| 16 | Influence of Coating Method on Performance of Roll-to-Roll Coated PEM Fuel Cell Catalyst Layers. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 17 | Electrode Layer Development and in Situ Diagnostic Characterization in Low Temperature Fuel Cells. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 18 | Parametric Study of Fabrication Conditions for High-Performance Gas-Diffusion-Electrode-Based Membrane-Electrode Assemblies. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |

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|----|--|-----|-----------|
| 19 | (Invited) PEFC Electrode Layer Development Via Complementary in Situ Diagnostics and Ex Situ Characterization. ECS Meeting Abstracts, 2019, , .  | 0.0 | 0         |
| 20 | Enabling Low-PGM Anode Electrodes for Improved Cell Performance and Durability in Alkaline Exchange Membrane Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1218-1218.                          | 0.0 | 0         |
| 21 | Impact of Electrode Thick Spot Irregularities on Polymer Electrolyte Membrane Fuel Cell Performance. ECS Meeting Abstracts, 2020, MA2020-02, 2222-2222.  | 0.0 | 0         |
| 22 | Multi-Technique Characterization of Gas Diffusion Fuel Cell Electrodes. ECS Meeting Abstracts, 2020, MA2020-02, 2144-2144.   | 0.0 | 0         |
| 23 | Visualization, Understanding, and Mitigation of Membrane Irregularities in Gas Diffusion Electrode-Based Polymer Electrolyte Membrane Fuel Cells. ECS Meeting Abstracts, 2020, MA2020-02, 2223-2223. | 0.0 | 0         |
| 24 | Investigation of Spray and Roll to Roll Coated Gas Diffusion Electrode Surface & Bulk Properties Using Microscopy and Spectroscopy. ECS Meeting Abstracts, 2021, MA2021-02, 1032-1032.               | 0.0 | 0         |