

Christopher J Barile

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electrochemical CO ₂ Reduction on Polycrystalline Copper by Modulating Proton Transfer with Fluoropolymer Composites. <i>ACS Applied Energy Materials</i> , 2022, 5, 4712-4721.	5.1	11
2	Tandem Electrocatalytic CO ₂ Reduction inside a Membrane with Enhanced Selectivity for Ethylene. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10045-10052.	3.1	15
3	Transparent, High-Charge Capacity Metal Mesh Electrode for Reversible Metal Electrodeposition Dynamic Windows with Dark-State Transmission $\lt; 0.1\%$. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	9
4	A Cost-Effective Optoelectronic Cyclor for the Durability Testing of Dynamic Windows: Case Studies with Reversible Metal Electrodeposition Devices. <i>Journal of the Electrochemical Society</i> , 2022, 169, 072502.	2.9	3
5	Polymer inhibitors enable >900%cm ² dynamic windows based on reversible metal electrodeposition with high solar modulation. <i>Nature Energy</i> , 2021, 6, 546-554.	39.5	79
6	Preparation and Electron-Transfer Properties of Self-Assembled Monolayers of Ferrocene on Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8177-8184.	3.1	11
7	Dynamic Windows Using Reversible Zinc Electrodeposition in Neutral Electrolytes with High Opacity and Excellent Resting Stability. <i>Advanced Energy Materials</i> , 2021, 11, 2100417.	19.5	23
8	Four-Electron Electrocatalytic O ₂ Reduction by a Ferrocene-Modified Glutathione Complex of Cu. <i>ACS Applied Energy Materials</i> , 2021, 4, 9611-9617.	5.1	9
9	Reversible Electrodeposition of Ni and Cu for Dynamic Windows. <i>Journal of the Electrochemical Society</i> , 2021, 168, 092501.	2.9	7
10	Controlling the Optical Properties of Dynamic Windows Based on Reversible Metal Electrodeposition. <i>ACS Applied Electronic Materials</i> , 2020, 2, 290-300.	4.3	13
11	Aqueous alkaline electrolytes for dynamic windows based on reversible metal electrodeposition with improved durability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1826-1834.	5.5	19
12	Bifunctional nickel and copper electrocatalysts for CO ₂ reduction and the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1741-1748.	10.3	17
13	Nanostructured Ni-Cu electrocatalysts for the oxygen evolution reaction. <i>Catalysis Science and Technology</i> , 2020, 10, 4960-4967.	4.1	18
14	Nitrile-Facilitated Proton Transfer for Enhanced Oxygen Reduction by Hybrid Electrocatalysts. <i>ACS Catalysis</i> , 2020, 10, 13149-13155.	11.2	8
15	Titanium nitride-supported Cu-Ni bifunctional electrocatalysts for CO ₂ reduction and the oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5654-5664.	4.9	8
16	Electrochemical CO ₂ reduction to methane with remarkably high Faradaic efficiency in the presence of a proton permeable membrane. <i>Energy and Environmental Science</i> , 2020, 13, 3567-3578.	30.8	77
17	Hybrid Dynamic Windows with Color Neutrality and Fast Switching Using Reversible Metal Electrodeposition and Cobalt Hexacyanoferrate Electrochromism. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44874-44882.	8.0	18
18	Electrocatalytic CO ₂ Reduction by Self-Assembled Monolayers of Metal Porphyrins. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19716-19724.	3.1	13

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19	Electrolyte for Improved Durability of Dynamic Windows Based on Reversible Metal Electrodeposition. <i>Joule</i> , 2020, 4, 1501-1513.	24.0	52
20	Synthesis dynamics of silver nanowires galvanically displaced by platinum salts: a fabrication route for oxygen reduction electrocatalysts and metal electrodeposition electrodes. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	0
21	Electrolyte Effects in Reversible Metal Electrodeposition for Optically Switching Thin Films. <i>Journal of the Electrochemical Society</i> , 2019, 166, D496-D504.	2.9	11
22	Physical and electrochemical characterization of a Cu-based oxygen reduction electrocatalyst inside and outside a lipid membrane with controlled proton transfer kinetics. <i>Electrochimica Acta</i> , 2019, 320, 134611.	5.2	11
23	Cuprous Oxide Electrodeposited with Nickel for the Oxygen Evolution Reaction in 1 M NaOH. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1287-1292.	3.1	11
24	Dual Tinting Dynamic Windows Using Reversible Metal Electrodeposition and Prussian Blue. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40043-40049.	8.0	30
25	Kinetic modeling of electrocatalytic oxygen reduction products from lipid-modified electrodes. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 2195-2207.	1.5	3
26	Dynamic Windows Based on Reversible Metal Electrodeposition with Enhanced Functionality. <i>Journal of the Electrochemical Society</i> , 2019, 166, D333-D338.	2.9	15
27	Hybrid dynamic windows using reversible metal electrodeposition and ion insertion. <i>Nature Energy</i> , 2019, 4, 223-229.	39.5	130
28	Electrolyte dynamics in reversible metal electrodeposition for dynamic windows. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 443-449.	2.9	14
29	Thermally-stable dynamic windows based on reversible metal electrodeposition from aqueous electrolytes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2132-2138.	5.5	18
30	Bistable Black Electrochromic Windows Based on the Reversible Metal Electrodeposition of Bi and Cu. <i>ACS Energy Letters</i> , 2018, 3, 104-111.	17.4	91
31	Membrane-Modified Metal Triazole Complexes for the Electrocatalytic Reduction of Oxygen and Carbon Dioxide. <i>Frontiers in Chemistry</i> , 2018, 6, 543.	3.6	9
32	Factors that Determine the Length Scale for Uniform Tinting in Dynamic Windows Based on Reversible Metal Electrodeposition. <i>ACS Energy Letters</i> , 2018, 3, 2823-2828.	17.4	50
33	Controlling Proton and Electron Transfer Rates to Enhance the Activity of an Oxygen Reduction Electrocatalyst. <i>Angewandte Chemie</i> , 2018, 130, 13668-13671.	2.0	2
34	Controlling Proton and Electron Transfer Rates to Enhance the Activity of an Oxygen Reduction Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13480-13483.	13.8	31
35	Proton transfer dynamics dictate quinone speciation at lipid-modified electrodes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7086-7093.	2.8	12
36	Effect of Concentration on the Electrochemistry and Speciation of the Magnesium Aluminum Chloride Complex Electrolyte Solution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35729-35739.	8.0	60

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37	Dynamic Windows with Neutral Color, High Contrast, and Excellent Durability Using Reversible Metal Electrodeposition. <i>Joule</i> , 2017, 1, 133-145.	24.0	177
38	Proton transfer dynamics control the mechanism of O ₂ reduction by a non-precious metal electrocatalyst. <i>Nature Materials</i> , 2016, 15, 754-759.	27.5	126
39	Dynamic Surface Stress Response during Reversible Mg Electrodeposition and Stripping. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2679-A2684.	2.9	9
40	Small Molecule Anchored to Mesoporous ITO for High-Contrast Black Electrochromics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26336-26341.	3.1	27
41	The Flip-Flop Diffusion Mechanism across Lipids in a Hybrid Bilayer Membrane. <i>Biophysical Journal</i> , 2016, 110, 2451-2462.	0.5	23
42	The Interplay of Al and Mg Speciation in Advanced Mg Battery Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2016, 138, 328-337.	13.7	186
43	Polymer-Nanoparticle Electrochromic Materials that Selectively Modulate Visible and Near-Infrared Light. <i>Chemistry of Materials</i> , 2016, 28, 1439-1445.	6.7	100
44	Exploring Salt and Solvent Effects in Chloride-Based Electrolytes for Magnesium Electrodeposition and Dissolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13524-13534.	3.1	71
45	Anion Transport through Lipids in a Hybrid Bilayer Membrane. <i>Analytical Chemistry</i> , 2015, 87, 2403-2409.	6.5	22
46	Photoresponsive Molecular Switch for Regulating Transmembrane Proton-Transfer Kinetics. <i>Journal of the American Chemical Society</i> , 2015, 137, 14059-14062.	13.7	29
47	Improving Electrodeposition of Mg through an Open Circuit Potential Hold. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23366-23372.	3.1	19
48	Electrolytic Conditioning of a Magnesium Aluminum Chloride Complex for Reversible Magnesium Deposition. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27623-27630.	3.1	167
49	Proton switch for modulating oxygen reduction by a copper electrocatalyst embedded in a hybrid bilayer membrane. <i>Nature Materials</i> , 2014, 13, 619-623.	27.5	51
50	Investigating the Reversibility of in Situ Generated Magnesium Organohaloaluminates for Magnesium Deposition and Dissolution. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10694-10699.	3.1	66
51	Polymer supported organic catalysts for O ₂ reduction in Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2014, 119, 138-143.	5.2	18
52	Investigating the Li-O ₂ Battery in an Ether-Based Electrolyte Using Differential Electrochemical Mass Spectrometry. <i>Journal of the Electrochemical Society</i> , 2013, 160, A549-A552.	2.9	55
53	Inhibiting platelet-stimulated blood coagulation by inhibition of mitochondrial respiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2539-2543.	7.1	43
54	Hybrid Bilayer Membrane: A Platform To Study the Role of Proton Flux on the Efficiency of Oxygen Reduction by a Molecular Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2011, 133, 11100-11102.	13.7	54

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55	Ferrocene Embedded in an Electrode-Supported Hybrid Lipid Bilayer Membrane: A Model System for Electrocatalysis in a Biomimetic Environment. <i>Langmuir</i> , 2010, 26, 17674-17678.	3.5	30
56	Inhibition of Electrocatalytic O ₂ Reduction of Functional CcO Models by Competitive, Non-Competitive, and Mixed Inhibitors. <i>Inorganic Chemistry</i> , 2009, 48, 10528-10534.	4.0	9
57	Electrolytes for reversible zinc electrodeposition for dynamic windows. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	13