

# William E Mustain

## List of Publications by Citations

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122  
papers

6,294  
citations

42  
h-index

78  
g-index

142  
ext. papers

7,678  
ext. citations

8.9  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
122	Anion-exchange membranes in electrochemical energy systems. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3135-3191	35.4	1296
121	Catalytic Aminohalogenation of Alkenes and Alkynes. <i>ACS Catalysis</i> , <b>2013</b> , 3, 1076-1091	13.1	264
120	Recent progress in the electrochemical conversion and utilization of CO <sub>2</sub> . <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 19-28	5.5	213
119	Beyond catalysis and membranes: visualizing and solving the challenge of electrode water accumulation and flooding in AEMFCs. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 551-558	35.4	162
118	Durability challenges of anion exchange membrane fuel cells. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2805-2838	35.4	156
117	Poly(bis-arylimidazoliums) possessing high hydroxide ion exchange capacity and high alkaline stability. <i>Nature Communications</i> , <b>2019</b> , 10, 2306	17.4	149
116	High stability, high activity Pt/ITO oxygen reduction electrocatalysts. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 530-3	16.4	146
115	Radiation-grafted anion-exchange membranes: the switch from low- to high-density polyethylene leads to remarkably enhanced fuel cell performance. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1575-1579	35.4	128
114	Effect of nickel oxide synthesis conditions on its physical properties and electrocatalytic oxidation of methanol. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5656-5666	6.7	128
113	Composite Poly(norbornene) Anion Conducting Membranes for Achieving Durability, Water Management and High Power (3.4W/cm <sup>2</sup> ) in Hydrogen/Oxygen Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F637-F644	3.9	111
112	An optimised synthesis of high performance radiation-grafted anion-exchange membranes. <i>Green Chemistry</i> , <b>2017</b> , 19, 831-843	10	111
111	Properties of Nitrogen-Functionalized Ordered Mesoporous Carbon Prepared Using Polypyrrole Precursor. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, B1665	3.9	110
110	Electrocatalytic Activity and Stability of Pt clusters on State-of-the-Art Supports: A Review. <i>Catalysis Reviews - Science and Engineering</i> , <b>2011</b> , 53, 256-336	12.6	103
109	Structural and Electrochemical Studies of Pt Clusters Supported on High-Surface-Area Tungsten Carbide for Oxygen Reduction. <i>ACS Catalysis</i> , <b>2011</b> , 1, 212-220	13.1	103
108	Kinetics and mechanism for the oxygen reduction reaction on polycrystalline cobalt/palladium electrocatalysts in acid media. <i>Journal of Power Sources</i> , <b>2007</b> , 170, 28-37	8.9	101
107	The Effect of Ambient Carbon Dioxide on Anion-Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , <b>2018</b> , 11, 1136-1150	8.3	100
106	Recent progress and perspectives of bifunctional oxygen reduction/evolution catalyst development for regenerative anion exchange membrane fuel cells. <i>Nano Energy</i> , <b>2018</b> , 47, 172-198	17.1	98

105	Synthesis of Nanosize Tungsten Oxide and Its Evaluation as an Electrocatalyst Support for Oxygen Reduction in Acid Media. <i>ACS Catalysis</i> , <b>2012</b> , 2, 456-463	13.1	96
104	Preparation of radiation-grafted powders for use as anion exchange ionomers in alkaline polymer electrolyte fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5124-5130	13	88
103	Effect of hydroxide and carbonate alkaline media on anion exchange membranes. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7176-7180	8.9	88
102	Catalytic Advantages, Challenges, and Priorities in Alkaline Membrane Fuel Cells. <i>ACS Catalysis</i> , <b>2020</b> , 10, 225-234	13.1	87
101	Achieving High-Performance and 2000 h Stability in Anion Exchange Membrane Fuel Cells by Manipulating Ionomer Properties and Electrode Optimization. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001986	21.8	87
100	Nitrogen-doped Carbon-CoO Nanohybrids: A Precious Metal Free Cathode that Exceeds 1.0 W cm Peak Power and 100 h Life in Anion-Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1046-1051	16.4	80
99	Evaluation of tungsten carbide as the electrocatalyst support for platinum hydrogen evolution/oxidation catalysts. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8929-8938	6.7	79
98	Investigations of carbon-supported CoPd <sub>3</sub> catalysts as oxygen cathodes in PEM fuel cells. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 406-410	5.1	77
97	Preferentially Oriented Ag Nanocrystals with Extremely High Activity and Faradaic Efficiency for CO Electrochemical Reduction to CO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1734-1742	9.5	75
96	CoPdx oxygen reduction electrocatalysts for polymer electrolyte membrane and direct methanol fuel cells. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 2102-2108	6.7	73
95	High Performance Anion Exchange Membrane Fuel Cells Enabled by Fluoropoly(olefin) Membranes. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902059	15.6	72
94	Activity and durability of Pt-Ni nanocage electrocatalysts in proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 927-935	21.8	71
93	Beyond 1.0 W cm <sup>2</sup> Performance without Platinum: The Beginning of a New Era in Anion Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, J3039-J3044	3.9	70
92	The Importance of Water Transport in High Conductivity and High-Power Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 054501	3.9	69
91	Platinum-copper nanotube electrocatalyst with enhanced activity and durability for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12293	13	67
90	Highly durable and active Co <sub>3</sub> O <sub>4</sub> nanocrystals supported on carbon nanotubes as bifunctional electrocatalysts in alkaline media. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 138-145	21.8	67
89	Using operando techniques to understand and design high performance and stable alkaline membrane fuel cells. <i>Nature Communications</i> , <b>2020</b> , 11, 3561	17.4	63
88	Influence of the ionomer/carbon ratio for low-Pt loading catalyst layer prepared by reactive spray deposition technology. <i>Journal of Power Sources</i> , <b>2015</b> , 283, 84-94	8.9	59

87	Poly(olefin)-Based Anion Exchange Membranes Prepared Using Ziegler-Natta Polymerization. <i>Macromolecules</i> , <b>2019</b> , 52, 4030-4041	5.5	57
86	Effect of CO <sub>2</sub> , HCO <sub>3</sub> <sup>-</sup> and CO <sub>3</sub> <sup>2-</sup> on oxygen reduction in anion exchange membrane fuel cells. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 1638-1644	6.7	52
85	Rational Synthesis of Metallo-Cations Toward Redox- and Alkaline-Stable Metallo-Polyelectrolytes. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 1083-1089	16.4	52
84	Understanding how high-performance anion exchange membrane fuel cells were achieved: Component, interfacial, and cell-level factors. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 12, 233-239	7.2	52
83	High-performing commercial Fe/N/C cathode electrocatalyst for anion-exchange membrane fuel cells. <i>Nature Energy</i> , <b>2021</b> , 6, 834-843	62.3	52
82	Quantifying and elucidating the effect of CO <sub>2</sub> on the thermodynamics, kinetics and charge transport of AEMFCs. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2806-2819	35.4	50
81	Practical assessment of the performance of aluminium battery technologies. <i>Nature Energy</i> , <b>2021</b> , 6, 21-29	62.3	48
80	Poly(norbornene) anion conductive membranes: homopolymer, block copolymer and random copolymer properties and performance. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17568-17578	13	40
79	Influence of conductivity on the capacity retention of NiO anodes in Li-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 276, 46-53	8.9	37
78	Electrochemical Methane Activation and Conversion to Oxygenates at Room Temperature. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, F1275-F1281	3.9	37
77	Strategies for Reducing the PGM Loading in High Power AEMFC Anodes. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F710-F717	3.9	35
76	Nanostructural effects on the cycle life and Li <sup>+</sup> diffusion coefficient of nickel oxide anodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 711, 8-16	4.1	35
75	High-Performing PGM-Free AEMFC Cathodes from Carbon-Supported Cobalt Ferrite Nanoparticles. <i>Catalysts</i> , <b>2019</b> , 9, 264	4	31
74	Investigation of metal oxide anode degradation in lithium-ion batteries via identical-location TEM. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1627-1630	13	31
73	Stability and Activity of Pt/ITO Electrocatalyst for Oxygen Reduction Reaction in Alkaline Media. <i>Electrochimica Acta</i> , <b>2015</b> , 157, 175-182	6.7	31
72	Highly Conductive In-SnO <sub>2</sub> /RGO Nano-Heterostructures with Improved Lithium-Ion Battery Performance. <i>Scientific Reports</i> , <b>2016</b> , 6, 25860	4.9	29
71	Importance of Particle Size and Distribution in Achieving High-Activity, High-Stability Oxygen Reduction Catalysts. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1560-1567	13.1	29
70	Hydrogen and Methanol Oxidation Reaction in Hydroxide and Carbonate Alkaline Media. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, B349	3.9	28

69	Highly active and durable Pd-Cu catalysts for oxygen reduction in alkaline exchange membrane fuel cells. <i>Frontiers in Energy</i> , <b>2017</b> , 11, 299-309	2.6	27
68	Sol-gel based sulfonic acid-functionalized silica proton conductive membrane. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 562-569	8.9	26
67	Temperature controlled surface chemistry of nitrogen-doped mesoporous carbon and its influence on Pt ORR activity. <i>Applied Catalysis A: General</i> , <b>2013</b> , 464-465, 233-242	5.1	25
66	Phosphorus-doped glass proton exchange membranes for low temperature direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 175, 91-97	8.9	25
65	Using nanoconfinement to inhibit the degradation pathways of conversion-metal oxide anodes for highly stable fast-charging Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2712-2727	13	23
64	Composite Materials with Combined Electronic and Ionic Properties. <i>Matter</i> , <b>2019</b> , 1, 959-975	12.7	23
63	High Performance FeNC and Mn-oxide/FeNC Layers for AEMFC Cathodes. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 134505	3.9	23
62	Carbonate Dynamics and Opportunities With Low Temperature, Anion Exchange Membrane-Based Electrochemical Carbon Dioxide Separators. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2017</b> , 14,	2	21
61	Low-Temperature Lithium Plating/Corrosion Hazard in Lithium-Ion Batteries: Electrode Rippling, Variable States of Charge, and Thermal and Nonthermal Runaway. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3653-3664	6.1	21
60	Fabrication of High Performing PEMFC Catalyst-Coated Membranes with a Low Cost Air-Assisted Cylindrical Liquid Jets Spraying System. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, E407-E413	3.9	20
59	Understanding the Dynamics of Primary Zn-MnO <sub>2</sub> Alkaline Battery Gassing with Operando Visualization and Pressure Cells. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2528-A2535	3.9	19
58	Stability limitations for Pt/SnIn <sub>2</sub> O <sub>3</sub> and Pt/InSnO <sub>2</sub> in acidic electrochemical systems. <i>Electrochimica Acta</i> , <b>2014</b> , 115, 116-125	6.7	19
57	Nitrogen-doped Carbon-CoOx Nanohybrids: A Precious Metal Free Cathode that Exceeds 1.0 W cm <sup>-2</sup> Peak Power and 100 h Life in Anion-Exchange Membrane Fuel Cells. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 1058-1063	3.6	19
56	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co <sub>3</sub> O <sub>4</sub> as anode materials. <i>RSC Advances</i> , <b>2016</b> , 6, 24320-24330	3.7	18
55	Explaining the role and mechanism of carbon matrices in enhancing reaction reversibility of metal oxide anodes for high performance Li ion batteries. <i>Carbon</i> , <b>2018</b> , 130, 515-524	10.4	17
54	Flame-based processing as a practical approach for manufacturing hydrogen evolution electrodes. <i>Journal of Power Sources</i> , <b>2014</b> , 271, 366-376	8.9	17
53	Non-destructive parameter extraction for a reduced order lumped electrochemical-thermal model for simulating Li-ion full-cells. <i>Journal of Power Sources</i> , <b>2020</b> , 445, 227296	8.9	17
52	Performance of Li-ion secondary batteries in low power, hybrid power supplies. <i>Journal of Power Sources</i> , <b>2009</b> , 189, 1184-1189	8.9	16

51	A Model for the Electroreduction of Molecular Oxygen. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, A668	3.9	16
50	Ionomer Optimization for Water Uptake and Swelling in Anion Exchange Membrane Electrolyzer: Oxygen Evolution Electrode. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 164514	3.9	14
49	Two Pathways for Near Room Temperature Electrochemical Conversion of Methane to Methanol. <i>ECS Transactions</i> , <b>2015</b> , 66, 129-136	1	13
48	Effects of pore structure in nitrogen functionalized mesoporous carbon on oxygen reduction reaction activity of platinum nanoparticles. <i>Carbon</i> , <b>2013</b> , 60, 28-40	10.4	13
47	High Performance Bi-Metallic Manganese Cobalt Oxide/Carbon Nanotube Li-ion Battery Anodes. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 620-625	6.7	13
46	Effect of cobalt alloying on the electrochemical performance of manganese oxide nanoparticles nucleated on multiwalled carbon nanotubes. <i>Nanotechnology</i> , <b>2017</b> , 28, 155403	3.4	10
45	Cobalt Doping as a Pathway To Stabilize the Solid-State Conversion Chemistry of Manganese Oxide Anodes in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7120-7127	3.8	10
44	Effect of surface chemistry on the double layer capacitance of polypyrrole-derived ordered mesoporous carbon. <i>RSC Advances</i> , <b>2014</b> , 4, 47039-47046	3.7	10
43	Effect of Carbonate on Oxygen Reduction, Hydrogen Oxidation and Anion Exchange Membrane Chemical Stability. <i>ECS Transactions</i> , <b>2010</b> , 33, 1735-1749	1	10
42	Carbonate Selective Ca <sub>2</sub> Ru <sub>2</sub> O <sub>7</sub> Pyrochlore Enabling Room Temperature Carbonate Fuel Cells I. Synthesis and Physical Characterization. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, B18-B23	3.9	10
41	Influence of Non-Conducting Zirconia on the Electrochemical Performance of Nickel Oxide in Alkaline Media at Room Temperature. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, E187-E192	3.9	10
40	Improving Performance in Alkaline Membrane Fuel Cells through Enhanced Water Management. <i>ECS Transactions</i> , <b>2016</b> , 75, 949-954	1	10
39	Ultra-Low Pt Loading Catalyst Layers for PEMFC Using Reactive Spray Deposition Technology. <i>ECS Transactions</i> , <b>2015</b> , 69, 487-496	1	9
38	Application of a Coated Film Catalyst Layer Model to a High Temperature Polymer Electrolyte Membrane Fuel Cell with Low Catalyst Loading Produced by Reactive Spray Deposition Technology. <i>Catalysts</i> , <b>2015</b> , 5, 1673-1691	4	9
37	Electroless Deposition and Characterization of Pt <sub>x</sub> Ru <sub>1-x</sub> Catalysts on Pt/C Nanoparticles for Methanol Oxidation. <i>Journal of Fuel Cell Science and Technology</i> , <b>2010</b> , 7,		9
36	Platinum-Glass Composite Electrode for Fuel Cell Applications. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, B210		9
35	Ionomer Optimization for Water Uptake and Swelling in Anion Exchange Membrane Electrolyzer: Hydrogen Evolution Electrode. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 024503	3.9	9
34	Selective deposition of chemically-bonded gold electrodes onto PDMS microchannel side walls. <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 727, 141-147	4.1	8

33	Electrochemical Methane Activation and Conversion to Oxygenates at Room Temperature. <i>ECS Transactions</i> , <b>2013</b> , 53, 1-20	1	8
32	Carbon dioxide vent for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 392-400	8.9	8
31	Structure and chemistry of the solid electrolyte interphase (SEI) on a high capacity conversion-based anode: NiO. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 523-537	13	8
30	Improved Capacity Retention of Metal Oxide Anodes in Li-Ion Batteries: Increasing Intraparticle Electronic Conductivity through Na Inclusion in Mn <sub>3</sub> O <sub>4</sub> . <i>ChemElectroChem</i> , <b>2018</b> , 5, 2059-2063	4.3	7
29	Carbonate Selective Ca <sub>2</sub> Ru <sub>2</sub> O <sub>7-y</sub> Pyrochlore Enabling Room Temperature Carbonate Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, B12-B17	3.9	7
28	Investigation of Transport and Kinetic Nonideality in Solid Li-Ion Electrodes through Deconvolution of Electrochemical Impedance Spectra. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 020523	3.9	6
27	In-depth structural understanding of zinc oxide addition to alkaline electrolytes to protect aluminum against corrosion and gassing. <i>Journal of Applied Electrochemistry</i> , <b>2019</b> , 49, 895-907	2.6	6
26	Performance of a Direct Borohydride Fuel Cell Stack. <i>ECS Transactions</i> , <b>2009</b> , 25, 1951-1957	1	6
25	Deposition of Pt <sub>x</sub> Ru <sub>1-x</sub> Catalysts for Methanol Oxidation in Micro Direct Methanol Fuel Cells. <i>Israel Journal of Chemistry</i> , <b>2008</b> , 48, 251-257	3.4	6
24	Editors' Choice Examining Performance and Durability of Anion Exchange Membrane Fuel Cells with Novel Spirocyclic Anion Exchange Membranes. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 044525	3.9	6
23	ORR and Fuel Cell Performance of Pt Supported on N-Functionalized Mesoporous Carbon. <i>ECS Transactions</i> , <b>2011</b> , 41, 1183-1191	1	5
22	Understanding how single-atom site density drives the performance and durability of PGM-free Fe <sub>N</sub> C cathodes in anion exchange membrane fuel cells. <i>Materials Today Advances</i> , <b>2021</b> , 12, 100179	7.4	5
21	Effect of Membrane Properties on the Carbonation of Anion Exchange Membrane Fuel Cells. <i>Membranes</i> , <b>2021</b> , 11,	3.8	5
20	Predicting the Effects of Carbon Dioxide on the Conductivity of Electrospun Anion Exchange Membranes. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F1047-F1054	3.9	4
19	Determining the Electrochemically Active Area of IrO <sub>x</sub> Powder Catalysts in an Operating Proton Exchange Membrane Electrolyzer. <i>ECS Transactions</i> , <b>2015</b> , 69, 877-881	1	4
18	Design of Highly Reversible Zinc Anodes for Aqueous Batteries Using Preferentially Oriented Electrolytic Zinc. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 1220-1232	5.6	4
17	Catalysts for Polymer Membrane Fuel Cells. <i>Catalysts</i> , <b>2020</b> , 10, 86	4	4
16	Metal Oxide/Reduced Graphene Oxide Anodes for Lithium-Ion Batteries. <i>ECS Transactions</i> , <b>2015</b> , 66, 47-55	1	4

15	Editors' Choice Power-Generating Electrochemical CO <sub>2</sub> Scrubbing from Air Enabling Practical AEMFC Application. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 024504	3.9	4
14	Electrospun nanofibers with surface oriented lamellar patterns and their potential applications. <i>Nanoscale</i> , <b>2020</b> , 12, 12993-13000	7.7	3
13	Water and Ion Transport in Anion Exchange Membrane Fuel Cells. <i>Lecture Notes in Energy</i> , <b>2018</b> , 1-31	0.4	3
12	Reaction Dependent Transport of Carbonate and Bicarbonate through Anion Exchange Membranes in Electrolysis and Fuel Cell Operations. <i>ECS Transactions</i> , <b>2015</b> , 69, 1-9	1	3
11	Understanding and improving anode performance in an alkaline membrane electrolyzer using statistical design of experiments. <i>Electrochimica Acta</i> , <b>2022</b> , 409, 140001	6.7	3
10	Strategies for Reducing the PGM Loading in High Power AEMFC Anodes. <i>ECS Transactions</i> , <b>2018</b> , 85, 873-887	1	2
9	Promises and Challenges of Unconventional Electrocatalyst Supports. <i>Lecture Notes in Energy</i> , <b>2013</b> , 689-728	0.4	2
8	Modeling Nickel Oxide Particle Stress Behavior Induced by Lithiation Using a FEM Linear Elastic Approach. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A867-A873	3.9	1
7	Electrolytes for Long-Life, Ultra Low-Power Direct Methanol Fuel Cells <b>2009</b> , 1-50		1
6	Partial deployment of Al in Zn/MnO <sub>2</sub> alkaline battery anodes to improve the capacity and reversibility. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230167	8.9	1
5	(Invited) Electrochemical Pathways for Electrochemical Oxidation of Acetic Acid. <i>ECS Transactions</i> , <b>2018</b> , 85, 29-34	1	0
4	Large Scale Synthesis of Manganese Oxide/Reduced Graphene Oxide Composites as Anode Materials for Long Cycle Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5424-5433	6.1	0
3	Influence of Preparation Conditions on Platinum and Palladium Catalysts Supported on Anodically Oxidized Stainless Steel Wire Meshes for CO Oxidation. <i>Emission Control Science and Technology</i> , <b>2021</b> , 7, 210-221	2	0
2	Understanding the Growth of Pt Nanoparticles by Galvanic Displacement on ITO Nanocubes for ORR. <i>ECS Transactions</i> , <b>2014</b> , 64, 191-198	1	
1	In Situ Oxygen Gradient Generation Inside a Termite-Inspired Microfluidic Habitat. <i>ECS Transactions</i> , <b>2015</b> , 66, 1-5	1	