

# Yun-Jung Kim

## List of Publications by Citations

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#	Paper	IF	Citations
158	Tuning selectivity of electrochemical reactions by atomically dispersed platinum catalyst. <i>Nature Communications</i> , <b>2016</b> , 7, 10922	17.4	509
157	Rechargeable Lithium Sulfur Battery. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A796	3.9	441
156	Rechargeable Lithium Sulfur Battery. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A800	3.9	371
155	A review of vanadium electrolytes for vanadium redox flow batteries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 263-274	16.2	226
154	Ionic conduction in plasticized blend polymer electrolytes. <i>Electrochimica Acta</i> , <b>1997</b> , 42, 1571-1579	6.7	201
153	Sustainable Redox Mediation for Lithium-Oxygen Batteries by a Composite Protective Layer on the Lithium-Metal Anode. <i>Advanced Materials</i> , <b>2016</b> , 28, 857-63	24	199
152	A simple composite protective layer coating that enhances the cycling stability of lithium metal batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 284, 103-108	8.9	182
151	Dimensional effects of nanostructured Mg/MgH <sub>2</sub> for hydrogen storage applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 72, 523-534	16.2	177
150	Binary electrolyte based on tetra(ethylene glycol) dimethyl ether and 1,3-dioxolane for lithium-sulfur battery. <i>Journal of Power Sources</i> , <b>2002</b> , 112, 452-460	8.9	173
149	Achieving three-dimensional lithium sulfide growth in lithium-sulfur batteries using high-donor-number anions. <i>Nature Communications</i> , <b>2019</b> , 10, 188	17.4	120
148	Composite protective layer for Li metal anode in high-performance lithium-oxygen batteries. <i>Electrochemistry Communications</i> , <b>2014</b> , 40, 45-48	5.1	111
147	Suppressing Lithium Dendrite Growth by Metallic Coating on a Separator. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1704391	15.6	104
146	Structural Factors of Sulfur Cathodes with Poly(ethylene oxide) Binder for Performance of Rechargeable Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A1437	3.9	99
145	Directly grown Co <sub>3</sub> O <sub>4</sub> nanowire arrays on Ni-foam: structural effects of carbon-free and binder-free cathodes for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11891	13	89
144	Enhancing the Cycling Stability of Sodium Metal Electrodes by Building an Inorganic-Organic Composite Protective Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6000-6006	9.5	88
143	Flexible and Robust Superomniphobic Surfaces Created by Localized Photofluidization of Azopolymer Pillars. <i>ACS Nano</i> , <b>2017</b> , 11, 7821-7828	16.7	88
142	Pore-Size-Tuned Graphene Oxide Frameworks as Ion-Selective and Protective Layers on Hydrocarbon Membranes for Vanadium Redox-Flow Batteries. <i>Nano Letters</i> , <b>2018</b> , 18, 3962-3968	11.5	74

141	Defect-free, size-tunable graphene for high-performance lithium ion battery. <i>Nano Letters</i> , <b>2014</b> , 14, 4306-13	11.5	67
140	Ionomer-Liquid Electrolyte Hybrid Ionic Conductor for High Cycling Stability of Lithium Metal Electrodes. <i>Scientific Reports</i> , <b>2015</b> , 5, 14458	4.9	67
139	Light-Powered Healing of a Wearable Electrical Conductor. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7273-7283	5.7	66
138	MEA design for low water crossover in air-breathing DMFC. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 637-643	6.7	66
137	Structural modulation of lithium metal-electrolyte interface with three-dimensional metallic interlayer for high-performance lithium metal batteries. <i>Scientific Reports</i> , <b>2016</b> , 6, 30830	4.9	64
136	Phase-separated polymer electrolyte based on poly(vinyl chloride)/poly(ethyl methacrylate) blend. <i>Journal of Power Sources</i> , <b>2002</b> , 112, 461-468	8.9	58
135	Plasma-assisted water-based Al <sub>2</sub> O <sub>3</sub> ceramic coating for polyethylene-based microporous separators for lithium metal secondary batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 212, 649-656	6.7	57
134	Detrimental Effects of Chemical Crossover from the Lithium Anode to Cathode in Rechargeable Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2921-2930	20.1	51
133	Dendrite-free Zn electrodeposition triggered by interatomic orbital hybridization of Zn and single vacancy carbon defects for aqueous Zn-based flow batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2839-2848	35.4	50
132	Effect of binary conductive agents in LiCoO <sub>2</sub> cathode on performances of lithium ion polymer battery. <i>Electrochimica Acta</i> , <b>2000</b> , 46, 599-605	6.7	50
131	Enhanced Stability of Coated Carbon Electrode for Li-O <sub>2</sub> Batteries and Its Limitations. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702661	21.8	49
130	Tuning the Ionomer Distribution in the Fuel Cell Catalyst Layer with Scaling the Ionomer Aggregate Size in Dispersion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17835-17841	9.5	49
129	Cathode structure optimization for air-breathing DMFC by application of pore-forming agents. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 433-440	8.9	47
128	Performance of a direct methanol fuel cell (DMFC) at low temperature: Cathode optimization. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 925-932	8.9	45
127	Direct Fabrication of Micro/Nano-Patterned Surfaces by Vertical-Directional Photofluidization of Azobenzene Materials. <i>ACS Nano</i> , <b>2017</b> , 11, 1320-1327	16.7	44
126	The Effect of the Anode Loading and Method of MEA Fabrication on DMFC Performance. <i>Fuel Cells</i> , <b>2007</b> , 7, 238-245	2.9	42
125	Tuning the Carbon Crystallinity for Highly Stable Li-O <sub>2</sub> Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8160-8169	31.6	40
124	Unraveling the Dual Functionality of High-Donor-Number Anion in Lean-Electrolyte Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000493	21.8	40

123	Determination of DMFC deterioration during long-term operation. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 440-445	8.9	39
122	Li-ion polymer battery based on phase-separated gel polymer electrolyte. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 4001-4007	6.7	39
121	High-Energy Efficiency Membraneless Flowless Zn-Br Battery: Utilizing the Electrochemical-Chemical Growth of Polybromides. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904524	24	37
120	A hydrocarbon/Nafion bilayer membrane with a mechanical nano-fastener for vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17279-17286	13	37
119	Modification of cathode structure by introduction of CNT for air-breathing DMFC. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 3043-3049	6.7	37
118	Polysulfide rejection layer from alpha-lipoic acid for high performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 323-330	13	36
117	A Nanophase-Separated, Quasi-Solid-State Polymeric Single-Ion Conductor: Polysulfide Exclusion for Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1232-1239	20.1	35
116	A new insight on capacity fading of lithium-sulfur batteries: The effect of Li <sub>2</sub> S phase structure. <i>Journal of Power Sources</i> , <b>2015</b> , 293, 329-335	8.9	34
115	Platinum-sputtered electrode based on blend of carbon nanotubes and carbon black for polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 191-194	8.9	33
114	Cathode catalyst layer using supported Pt catalyst on ordered mesoporous carbon for direct methanol fuel cell. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 724-732	8.9	33
113	Dispersion-Solvent Control of Ionomer Aggregation in a Polymer Electrolyte Membrane Fuel Cell. <i>Scientific Reports</i> , <b>2018</b> , 8, 10739	4.9	32
112	Multilayered separator based on porous polyethylene layer, Al <sub>2</sub> O <sub>3</sub> layer, and electro-spun PVdF nanofiber layer for lithium batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1807-1814	2.6	32
111	Electrochemical characteristics of phase-separated polymer electrolyte based on poly(vinylidene fluoride-co-hexafluoropropane) and ethylene carbonate. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 1339-1346	6.7	32
110	Characteristics of a lithium-polymer battery based on a lithium powder anode. <i>Journal of Power Sources</i> , <b>2001</b> , 93, 145-150	8.9	32
109	Li <sub>2</sub> S/carbon nanocomposite strips from a low-temperature conversion of Li <sub>2</sub> SO <sub>4</sub> as high-performance lithium-sulfur cathodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6617-6624	13	30
108	Hydrociper: Bioinspired Dynamic Structural Color-Based Cryptographic Surface. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901259	8.1	30
107	Interlocking membrane/catalyst layer interface for high mechanical robustness of hydrocarbon-membrane-based polymer electrolyte membrane fuel cells. <i>Advanced Materials</i> , <b>2015</b> , 27, 2974-80	24	29
106	Low permeable composite membrane based on sulfonated poly(phenylene oxide) (sPPO) and silica for vanadium redox flow battery. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 19035-19043	6.7	29

105	Facet selectivity of Cu current collector for Li electrodeposition. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 154-162	16.2	28
104	Polydopamine-treated three-dimensional carbon fiber-coated separator for achieving high-performance lithium metal batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 430, 130-136	8.9	26
103	Analysis of Oxygen Transport in Cathode Catalyst Layer of Low-Pt-Loaded Fuel Cells. <i>ChemElectroChem</i> , <b>2015</b> , 2, 382-388	4.3	26
102	Electrochemical analysis of polymer electrolyte membrane fuel cell operated with dry-air feed. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 515-522	8.9	26
101	In situ coating of Poly(3,4-ethylenedioxythiophene) on sulfur cathode for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 332, 72-78	8.9	26
100	Glucosamine-derived encapsulation of silicon nanoparticles for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14557	13	25
99	Scaling the water cluster size of Nafion membranes for a high performance Zn/Br redox flow battery. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 852-858	9.6	24
98	Perfluorinated ionomer-enveloped sulfur cathodes for lithium-sulfur batteries. <i>ChemSusChem</i> , <b>2014</b> , 7, 3341-6	8.3	24
97	Effect of air purging and dry operation on durability of PEMFC under freeze/thaw cycles. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 12417-12426	6.7	24
96	Three-Dimensional Interlocking Interface: Mechanical Nanofastener for High Interfacial Robustness of Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603056	24	23
95	Silver nanowire networks embedded in a cure-controlled optical adhesive film for a transparent and highly conductive electrode. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9834-9840	7.1	23
94	Ultrathin Nafion-filled porous membrane for zinc/bromine redox flow batteries. <i>Scientific Reports</i> , <b>2017</b> , 7, 10503	4.9	22
93	Basic model for membrane electrode assembly design for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 175, 760-772	8.9	22
92	Microstructured Membrane Electrode Assembly for Direct Methanol Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, B1034	3.9	22
91	Plasticized Polymer Interlayer for Low-Temperature Fabrication of a High-Quality Silver Nanowire-Based Flexible Transparent and Conductive Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15114-15121	9.5	20
90	Reduction of charge and discharge polarization by cobalt nanoparticles-embedded carbon nanofibers for Li-O <sub>2</sub> batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 2496-502	8.3	20
89	Deterioration of Nafion 115 membrane in direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 191, 312-319	8.9	20
88	Synthesis, photo-reaction and photo-induced liquid crystal alignment of soluble polyimide with pendant cinnamate group. <i>Liquid Crystals</i> , <b>2000</b> , 27, 1343-1356	2.3	20

87	An Ultrahigh Capacity Graphite/LiS Battery with Holey-LiS Nanoarchitectures. <i>Advanced Science</i> , <b>2018</b> , 5, 1800139	13.6	19
86	Modulated ionomer distribution in the catalyst layer of polymer electrolyte membrane fuel cells for high temperature operation. <i>ChemSusChem</i> , <b>2014</b> , 7, 2335-41	8.3	19
85	Nano-scale control of the ionomer distribution by molecular masking of the Pt surface in PEMFCs. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13004-13013	13	19
84	Effects of cations on ionic states of poly(oligo-oxethylene methacrylate-co-alkali metal acrylamidocaproate) single-ion conductor. <i>Solid State Ionics</i> , <b>1997</b> , 98, 237-244	3.3	18
83	Propylene carbonate-derived size modulation of water cluster in pore-filled Nafion/polypropylene composite membrane for the use in vanadium redox flow batteries. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 60, 401-406	6.3	18
82	Effect of Imidization Temperature and Spinning Condition on Structure of Polyimide Film Derived from Cyclobutanedianhydride and 2,2-Bis(4-aminophenoxyphenyl)propane. <i>Polymer Journal</i> , <b>1997</b> , 29, 1002-1006	2.7	17
81	Lithium Dendrite Suppression with a Silica Nanoparticle-Dispersed Colloidal Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37188-37196	9.5	17
80	Understanding the redox reaction mechanism of vanadium electrolytes in all-vanadium redox flow batteries. <i>Journal of Energy Storage</i> , <b>2019</b> , 21, 321-327	7.8	17
79	Cobalt oxide-porous carbon composite derived from CO <sub>2</sub> for the enhanced performance of lithium-ion battery. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 30, 28-37	7.6	17
78	Controlling Ionomer Film Morphology through Altering Pt Catalyst Surface Properties for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 1807-1818	4.3	16
77	Photo-induced liquid crystal alignment on polyimide containing fluorinated groups. <i>Liquid Crystals</i> , <b>2002</b> , 29, 243-250	2.3	16
76	Highly Ordered Ultrathin Perfluorinated Sulfonic Acid Ionomer Membranes for Vanadium Redox Flow Battery. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 184-192	20.1	16
75	Molecular Dynamics Simulation to Reveal Effects of Binder Content on Pt/C Catalyst Coverage in a High-Temperature Polymer Electrolyte Membrane Fuel Cell. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3251-3258	5.6	16
74	Preparation and ionic conductivities of the plasticized polymer electrolytes based on poly(methyl methacrylate-co-alkali metal methacrylate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 2709-2714	2.6	15
73	An electron-deficient carbon current collector for anode-free Li-metal batteries. <i>Nature Communications</i> , <b>2021</b> , 12, 5537	17.4	15
72	Catalytic production of impurity-free V electrolyte for vanadium redox flow batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 4412	17.4	14
71	Guided Lithium Deposition by Surface Micro-Patterning of Lithium-Metal Electrodes. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3169-3175	4.3	14
70	Effect of the porous carbon layer in the cathode gas diffusion media on direct methanol fuel cell performances. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 8257-8262	6.7	14

69	Thermal and electrochemical characteristics of plasticized polymer electrolytes based on poly(acrylonitrile-co-methyl methacrylate). <i>Journal of Solid State Electrochemistry</i> , <b>1998</b> , 3, 1-6	2.6	14
68	Thermal degradation of poly(vinyl cinnamate). <i>Polymer Bulletin</i> , <b>1998</b> , 41, 325-331	2.4	14
67	Catalytic performance of graphene quantum dot supported manganese phthalocyanine for efficient oxygen reduction: density functional theory approach. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 348-355	3.6	13
66	Tuning Two Interfaces with Fluoroethylene Carbonate Electrolytes for High-Performance Li/LCO Batteries. <i>ACS Omega</i> , <b>2019</b> , 4, 3220-3227	3.9	13
65	Light-Induced Surface Patterning of Silica. <i>ACS Nano</i> , <b>2015</b> , 9, 9837-48	16.7	13
64	High-Rate Cycling of Lithium-Metal Batteries Enabled by Dual-Salt Electrolyte-Assisted Micropatterned Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31777-31785	9.5	13
63	Highly durable electrocatalyst with graphitized carbon supports modified by diazonium reaction for polymer electrolyte membrane fuel cell. <i>Carbon</i> , <b>2014</b> , 77, 525-537	10.4	13
62	Mechanism of Photo-Induced Liquid Crystal Alignment on a Poly(vinyl cinnamate) Thin Layer. <i>Polymer Journal</i> , <b>2001</b> , 33, 9-12	2.7	13
61	Programmable Fabrication of Submicrometer Bent Pillar Structures Enabled by a Photoreconfigurable Azopolymer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 5058-5064	9.5	13
60	Resistor Design for the Use of Dynamic Hydrogen Electrode in Vanadium Redox Flow Batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 490-495	6.7	12
59	Relationship between pretilt angle and surface energy of the blended films based on poly(vinyl cinnamate) and alkanoyl cinnamic acid. <i>Synthetic Metals</i> , <b>2001</b> , 117, 267-269	3.6	12
58	In-Plane Channel-Structured Catalyst Layer for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 4682-4688	9.5	11
57	Azimuthal Anchoring Energy and Pretilt angle of Photo-aligned Nematic Liquid Crystals on a Polyimide and Poly(vinyl cinnamate) Blend Alignment Layer. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 338, 99-115		11
56	Impedance spectroscopic study on ionic transport in a pH sensitive membrane. <i>Journal of Membrane Science</i> , <b>1996</b> , 115, 207-215	9.6	11
55	Nanostructures of Nafion Film at Platinum/Carbon Surface in Catalyst Layer of PEMFC: Molecular Dynamics Simulation Approach. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 21386-21395	3.8	11
54	Size Tunable Zeolite-Templated Carbon as Microporous Sulfur Host for Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 558-565	4.3	11
53	Magnetic Field-Induced Through-Plane Alignment of the Proton Highway in a Proton Exchange Membrane. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4619-4628	6.1	11
52	Rugged catalyst layer supported on a Nafion fiber mat for enhancing mass transport of polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , <b>2018</b> , 268, 469-475	6.7	10

51	A Simple Diazonium Coupling Reaction Enhances Durability of Modified Graphitic Carbons Used as Catalyst Supports for Polymer Electrolyte Membrane Fuel Cell. <i>Electrochimica Acta</i> , <b>2014</b> , 134, 418-425	6.7	10
50	Silica-embedded hydrogel nanofiller for enhancing low humidity proton conduction of a hydrocarbon-based polymer electrolyte membrane. <i>Journal of Membrane Science</i> , <b>2017</b> , 543, 106-113	9.6	9
49	Enhanced Durability of Linker-Containing Carbon Nanotube Functionalized via Diazonium Reaction. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 63-69	6.7	8
48	Photo-induced liquid crystal alignment on polyimide containing fluorine group. <i>Synthetic Metals</i> , <b>2001</b> , 117, 277-279	3.6	8
47	Development of In-Plane Orientation in Pyromellitic Dianhydride-Oxydianiline Polyimide Film on Substrate during Thermal Imidization. <i>Polymer Journal</i> , <b>1999</b> , 31, 154-159	2.7	8
46	Temperature-dependent 51V nuclear magnetic resonance spectroscopy for the positive electrolyte of vanadium redox flow batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 96847-96852	3.7	8
45	External reinforcement of hydrocarbon membranes by a three-dimensional interlocking interface for mechanically durable polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , <b>2019</b> , 415, 44-49	8.9	7
44	An electrode-supported fabrication of thin polybenzimidazole membrane-based polymer electrolyte membrane fuel cell. <i>Electrochimica Acta</i> , <b>2018</b> , 270, 402-408	6.7	7
43	Photo-Reconfigurable Azopolymer Etch Mask: Photofluidization-Driven Reconfiguration and Edge Rectangularization. <i>Small</i> , <b>2018</b> , 14, e1703250	11	7
42	Tuning sodium nucleation and stripping by the mixed surface of carbon nanotube-sodium composite electrodes for improved reversibility. <i>Journal of Power Sources</i> , <b>2019</b> , 438, 227005	8.9	7
41	Partially Perfluorinated Hydrocarbon Ionomer for Cathode Catalyst Layer of Polymer Electrolyte Membrane Fuel Cell. <i>Electrochimica Acta</i> , <b>2014</b> , 125, 314-319	6.7	7
40	Effects of Thermal Curing on the Structure of Polyimide Film. <i>Polymer Journal</i> , <b>1998</b> , 30, 229-233	2.7	7
39	Preparation, Characterization, and Photo-induced Liquid Crystal Alignment of Polyimide and Poly(vinyl cinnamate) Blend Alignment Layer. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, 201-208	1.4	7
38	Electrokinetic-Driven Fast Ion Delivery for Reversible Aqueous Zinc Metal Batteries with High Capacity. <i>Small</i> , <b>2021</b> , 17, e2008059	11	7
37	In-situ observation of the degradation of all-vanadium redox flow batteries with dynamic hydrogen reference electrode under real operation conditions. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 70, 355-362	6.3	7
36	Compatibility of platinum with alkaline sulfide fuel: Effectiveness and stability of platinum as an anode catalyst in direct alkaline sulfide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 4141-4145	6.7	5
35	Achieving Fast Proton Transport and High Vanadium Ion Rejection with Uniformly Mesoporous Composite Membranes for High-Efficiency Vanadium Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5874-5881	6.1	5
34	Rational Design of Highly Packed, Crack-Free Sulfur Electrodes by Scaffold-Supported Drying for Ultrahigh-Sulfur-Loaded Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29849-29857	8.5	5



33	Light-Designed Shark Skin-Mimetic Surfaces. <i>Nano Letters</i> , <b>2021</b> , 21, 5500-5507	11.5	5
32	Ionic transportation and chemical stability of high-endurance porous polyethylene separator for vanadium redox flow batteries. <i>Solid State Ionics</i> , <b>2018</b> , 327, 110-116	3.3	5
31	Tailoring catalyst layer structures for anion exchange membrane fuel cells by controlling the size of ionomer aggregates in dispersion. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131737	14.7	5
30	Electro-Spun Poly(vinylidene fluoride) Nanofiber Web as Separator for Lithium Ion Batteries: Effect of Pore Structure and Thickness. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 956-61	1.3	4
29	Novel electrolyte system: Porous polymeric support filled with liquid electrolyte. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 60, 1773-1778	2.9	4
28	Homogeneously Dispersed Silver Nanoparticles in EVA Laminating Film for Efficiency Enhancement of Silicon Photovoltaic Cells. <i>Macromolecular Research</i> , <b>2016</b> , 24, 436-440	1.9	3
27	Chemical Degradation of Commercial Polymer Electrolyte Membrane for Vanadium Redox Flow Battery (VRFB). <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 5788-5791	1.3	3
26	Effect of side chain length on the separation performance of poly(alkyl methacrylate) ionomer membrane. <i>Journal of Membrane Science</i> , <b>2000</b> , 167, 67-77	9.6	3
25	Preparation, characterization, and performance of poly(acrylamidocaproic acid) partially neutralized with calcium for use in nanofiltration. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 60, 1811-1819	3.9	3
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23	Single-Step Fabrication of a Multiscale Porous Catalyst Layer by the Emulsion Template Method for Low Pt-Loaded Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4012-4020	6.1	3
22	Ditch-structured microporous layers fabricated by nanosecond-pulse laser ablation for enhancing water transport in polymer electrolyte membrane fuel cells. <i>Materials Advances</i> , <b>2020</b> , 1, 254-261	3.3	3
21	Modulation of Solvation Structure and Electrode Work Function by an Ultrathin Layer of Polymer of Intrinsic Microporosity in Zinc Ion Batteries.. <i>Small</i> , <b>2022</b> , e2201163	11	3
20	Enhancing the durability of hydrocarbon-membrane-based polymer electrolyte water electrolysis using a radical scavenger-embedded interlocking interfacial layer. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 789-798	13	2
19	Alkyl Spacer Grafted ABPBI Membranes with Enhanced Acid-Absorption Capabilities for Use in Vanadium Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4672-4685	6.1	2
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11	Poly(oligo-oxyethylene methacrylate-co-alkali metal acrylamidocaproate) as a single ion conductor. <i>Polymer Bulletin</i> , <b>1996</b> , 36, 427-433	2.4	1
10	Current status and challenges for practical flowless ZnBr batteries. <i>Current Opinion in Electrochemistry</i> , <b>2022</b> , 32, 100898	7.2	1
9	Sustainable Formation of Sulfur-Enriched Solid Electrolyte Interface on a Li Metal Electrode by Sulfur Chain-Containing Polymer Electrolyte Interfacial Layers. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10070-10079	6.1	1
8	Preferential Protection of Low Coordinated Sites in Pt Nanoparticles for Enhancing Durability of Pt/C Catalyst. <i>Energies</i> , <b>2021</b> , 14, 1419	3.1	1
7	Suppressing Charge Disproportionation of MnO <sub>2</sub> Cathodes in Rechargeable Zinc Ion Batteries via Cooperative Jahn-Teller Distortion. <i>Batteries and Supercaps</i> ,	5.6	1
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