Xianfeng Li

List of Publications by Citations

272	11,554	60	93
papers	citations	h-index	g-index
284	14,496	12	7.02
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
272	Ion exchange membranes for vanadium redox flow battery (VRB) applications. *Energy and Environmental Science*, **2011**, 4, 1147	35.4	712
271	Vanadium Flow Battery for Energy Storage: Prospects and Challenges. *Journal of Physical Chemistry Letters*, **2013**, 4, 1281-94	6.4	357
270	Nanofiltration (NF) membranes: the next generation separators for all vanadium redox flow batteries (VRBs)?. *Energy and Environmental Science*, **2011**, 4, 1676	35.4	261
269	Porous membranes in secondary battery technologies. *Chemical Society Reviews*, **2017**, 46, 2199-2236	58.5	256
268	Advanced porous membranes with ultra-high selectivity and stability for vanadium flow batteries. *Energy and Environmental Science*, **2016**, 9, 441-447	35.4	208
267	Promoting the Transformation of Li S to Li S: Significantly Increasing Utilization of Active Materials for High-Sulfur-Loading Li-S Batteries. *Advanced Materials*, **2019**, 31, e1901220	24	186
266	An aqueous hybrid electrolyte for low-temperature zinc-based energy storage devices. *Energy and Environmental Science*, **2020**, 13, 3527-3535	35.4	175
265	Carbon paper coated with supported tungsten trioxide as novel electrode for all-vanadium flow battery. *Journal of Power Sources*, **2012**, 218, 455-461	8.9	172
264	Composite membranes based on highly sulfonated PEEK and PBI: Morphology characteristics and performance. *Journal of Membrane Science*, **2008**, 308, 66-74	9.6	165
263	Sulfonated poly(tetramethydiphenyl ether ether ketone) membranes for vanadium redox flow battery application. *Journal of Power Sources*, **2011**, 196, 482-487	8.9	162
262	Highly Flexible and Conductive Cellulose-Mediated PEDOT:PSS/MWCNT Composite Films for Supercapacitor Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 13213-13222	9.5	160
261	Silica modified nanofiltration membranes with improved selectivity for redox flow battery application. *Energy and Environmental Science*, **2012**, 5, 6299-6303	35.4	158
260	Inhibition of Zinc Dendrite Growth in Zinc-Based Batteries. *ChemSusChem*, **2018**, 11, 3996-4006	8.3	149
259	A novel single flow zinc–bromine battery with improved energy density. *Journal of Power Sources*, **2013**, 235, 1-4	8.9	137
258	Dendrite-Free Zinc Deposition Induced by Tin-Modified Multifunctional 3D Host for Stable Zinc-Based Flow Battery. *Advanced Materials*, **2020**, 32, e1906803	24	135
257	Bismuth nanodendrites as a high performance electrocatalyst for selective conversion of CO2 to formate. *Journal of Materials Chemistry A*, **2016**, 4, 13746-13753	13	130
256	Degradation mechanism of sulfonated poly(ether ether ketone) (SPEEK) ion exchange membranes under vanadium flow battery medium. *Physical Chemistry Chemical Physics*, **2014**, 16, 19841-7	3.6	122

255	A Highly Ion-Selective Zeolite Flake Layer on Porous Membranes for Flow Battery Applications. *Angewandte Chemie - International Edition*, **2016**, 55, 3058-62	16.4	120
254	Advanced Charged Sponge-Like Membrane with Ultrahigh Stability and Selectivity for Vanadium Flow Batteries. *Advanced Functional Materials*, **2016**, 26, 210-218	15.6	115
253	Phase Inversion: A Universal Method to Create High-Performance Porous Electrodes for Nanoparticle-Based Energy Storage Devices. *Advanced Functional Materials*, **2016**, 26, 8427-8434	15.6	112
252	Advanced charged membranes with highly symmetric spongy structures for vanadium flow battery application. *Energy and Environmental Science*, **2013**, 6, 776	35.4	110
251	Highly stable zinc□iodine single flow batteries with super high energy density for stationary energy storage. *Energy and Environmental Science*, **2019**, 12, 1834-1839	35.4	101
250	Mechanism of Polysulfone-Based Anion Exchange Membranes Degradation in Vanadium Flow Battery. *ACS Applied Materials & Interfaces*, **2015**, 7, 19446-54	9.5	99
249	Highly Stable Anion Exchange Membranes with Internal Cross-Linking Networks. *Advanced Functional Materials*, **2015**, 25, 2583-2589	15.6	98
248	Morphology changes of polyvinylidene fluoride membrane under different phase separation mechanisms. *Journal of Membrane Science*, **2008**, 320, 477-482	9.6	95
247	3D Flexible, Conductive, and Recyclable TiCT MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. *ACS Nano*, **2020**, 14, 8678-8688	16.7	92
246	A Long Cycle Life, Self-Healing Zinc-Iodine Flow Battery with High Power Density. *Angewandte Chemie - International Edition*, **2018**, 57, 11171-11176	16.4	91
245	Sulfur embedded in one-dimensional French fries-like hierarchical porous carbon derived from a metal□organic framework for high performance lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2015**, 3, 15314-15323	13	89
244	The next generation vanadium flow batteries with high power density - a perspective. *Physical Chemistry Chemical Physics*, **2017**, 20, 23-35	3.6	89
243	Activated Carbon Fiber Paper Based Electrodes with High Electrocatalytic Activity for Vanadium Flow Batteries with Improved Power Density. *ACS Applied Materials & Interfaces*, **2017**, 9, 4626-4633	9.5	86
242	Ultrathin Bismuth Nanosheets as a Highly Efficient CO Reduction Electrocatalyst. *ChemSusChem*, **2018**, 11, 848-853	8.3	84
241	High-performance porous uncharged membranes for vanadium flow battery applications created by tuning cohesive and swelling forces. *Energy and Environmental Science*, **2016**, 9, 2319-2325	35.4	84
240	A highly reversible neutral zinc/manganese battery for stationary energy storage. *Energy and Environmental Science*, **2020**, 13, 135-143	35.4	83
239	Development and perspective in vanadium flow battery modeling. *Applied Energy*, **2014**, 132, 254-266	10.7	80
238	1-D oriented cross-linking hierarchical porous carbon fibers as a sulfur immobilizer for high performance lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2016**, 4, 5965-5972	13	79

237	Advanced Materials for Zinc-Based Flow Battery: Development and Challenge. *Advanced Materials*, **2019**, 31, e1902025	24	77
236	Y-Doped Na3V2(PO4)2F3 compounds for sodium ion battery cathodes: electrochemical performance and analysis of kinetic properties. *Journal of Materials Chemistry A*, **2017**, 5, 10928-10935	13	76
235	Negatively charged nanoporous membrane for a dendrite-free alkaline zinc-based flow battery with long cycle life. *Nature Communications*, **2018**, 9, 3731	17.4	76
234	Hydrophobic asymmetric ultrafiltration PVDF membranes: an alternative separator for VFB with excellent stability. *Physical Chemistry Chemical Physics*, **2013**, 15, 1766-71	3.6	75
233	VSC-doping and VSU-doping of Na3V2-xTix(PO4)2F3 compounds for sodium ion battery cathodes: Analysis of electrochemical performance and kinetic properties. *Nano Energy*, **2018**, 47, 340-352	17.1	74
232	Lithium Sulfur Primary Battery with Super High Energy Density: Based on the Cauliflower-like Structured C/S Cathode. *Scientific Reports*, **2015**, 5, 14949	4.9	74
231	A Low-Cost Neutral Zinc-Iron Flow Battery with High Energy Density for Stationary Energy Storage. *Angewandte Chemie - International Edition*, **2017**, 56, 14953-14957	16.4	71
230	Toward a Low-Cost Alkaline Zinc-Iron Flow Battery with a Polybenzimidazole Custom Membrane for Stationary Energy Storage. *IScience*, **2018**, 3, 40-49	6.1	71
229	Anion-conductive membranes with ultralow vanadium permeability and excellent performance in vanadium flow batteries. *ChemSusChem*, **2013**, 6, 328-35	8.3	70
228	Development of carbon coated membrane for zinc/bromine flow battery with high power density. *Journal of Power Sources*, **2013**, 227, 41-47	8.9	69
227	SPEEK and functionalized mesoporous MCM-41 mixed matrix membranes for CO2 separations. *Journal of Materials Chemistry*, **2012**, 22, 20057		68
226	Selective Electrochemical Reduction of Carbon Dioxide Using Cu Based Metal Organic Framework for CO Capture. *ACS Applied Materials & Interfaces*, **2018**, 10, 2480-2489	9.5	67
225	Thin-film composite membrane breaking the trade-off between conductivity and selectivity for a flow battery. *Nature Communications*, **2020**, 11, 13	17.4	67
224	A three-dimensional model for thermal analysis in a vanadium flow battery. *Applied Energy*, **2014**, 113, 1675-1685	10.7	66
223	Investigation on the effect of catalyst on the electrochemical performance of carbon felt and graphite felt for vanadium flow batteries. *Journal of Power Sources*, **2015**, 286, 73-81	8.9	65
222	Progress and Perspectives of Flow Battery Technologies. *Electrochemical Energy Reviews*, **2019**, 2, 492-506	29.3	65
221	Porous poly (ether sulfone) membranes with tunable morphology: Fabrication and their application for vanadium flow battery. *Journal of Power Sources*, **2013**, 233, 202-208	8.9	64
220	A high power density single flow zinc□nickel battery with three-dimensional porous negative electrode. *Journal of Power Sources*, **2013**, 241, 196-202	8.9	63

219	Porous membrane with high curvature, three-dimensional heat-resistance skeleton: a new and practical separator candidate for high safety lithium ion battery. *Scientific Reports*, **2015**, 5, 8255	4.9	63
218	Poly(vinylidene fluoride) porous membranes precipitated in water/ethanol dual-coagulation bath: The relationship between morphology and performance in vanadium flow battery. *Journal of Power Sources*, **2014**, 249, 84-91	8.9	63
217	The 2021 battery technology roadmap. *Journal Physics D: Applied Physics*, **2021**, 54, 183001	3	63
216	Superior Thermally Stable and Nonflammable Porous Polybenzimidazole Membrane with High Wettability for High-Power Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 8742-8750	9.5	60
215	Cage-Like Porous Carbon with Superhigh Activity and Br -Complex-Entrapping Capability for Bromine-Based Flow Batteries. *Advanced Materials*, **2017**, 29, 1605815	24	60
214	Naphthalene-based poly(arylene ether ketone) copolymers containing sulfobutyl pendant groups for proton exchange membranes. *Journal of Polymer Science Part A*, **2009**, 47, 5772-5783	2.5	60
213	Long Cycle Life Lithium Metal Batteries Enabled with Upright Lithium Anode. *Advanced Functional Materials*, **2019**, 29, 1806752	15.6	60
212	Porous V2O5 yolk□shell microspheres for zinc ion battery cathodes: activation responsible for enhanced capacity and rate performance. *Journal of Materials Chemistry A*, **2020**, 8, 5186-5193	13	59
211	Multilayered Zn nanosheets as an electrocatalyst for efficient electrochemical reduction of CO2. *Journal of Catalysis*, **2018**, 357, 154-162	7.3	59
210	Ion conducting membranes for aqueous flow battery systems. *Chemical Communications*, **2018**, 54, 7570-7588	5.8	58
209	Advanced acid-base blend ion exchange membranes with high performance for vanadium flow battery application. *Journal of Membrane Science*, **2018**, 553, 25-31	9.6	57
208	Carbon-Free CoO Mesoporous Nanowire Array Cathode for High-Performance Aprotic Li-O2 Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 23182-9	9.5	56
207	Flow field design and optimization based on the mass transport polarization regulation in a flow-through type vanadium flow battery. *Journal of Power Sources*, **2016**, 324, 402-411	8.9	56
206	Zn electrode with a layer of nanoparticles for selective electroreduction of CO2 to formate in aqueous solutions. *Journal of Materials Chemistry A*, **2016**, 4, 16670-16676	13	56
205	Progress and prospect for NASICON-type Na3V2(PO4)3 for electrochemical energy storage. *Journal of Energy Chemistry*, **2018**, 27, 1597-1617	12	56
204	Bimodal highly ordered mesostructure carbon with high activity for Br2/Br□redox couple in bromine based batteries. *Nano Energy*, **2016**, 21, 217-227	17.1	55
203	Steam-etched spherical carbon/sulfur composite with high sulfur capacity and long cycle life for Li/S battery application. *ACS Applied Materials & Interfaces*, **2015**, 7, 3590-9	9.5	55
202	Aqueous Flow Batteries: Research and Development. *Chemistry - A European Journal*, **2019**, 25, 1649-1664	4.8	54

201	Poly (ether ether ketone) (PEEK) porous membranes with super high thermal stability and high rate capability for lithium-ion batteries. *Journal of Membrane Science*, **2017**, 530, 125-131	9.6	53
200	Advanced porous PBI membranes with tunable performance induced by the polymer-solvent interaction for flow battery application. *Energy Storage Materials*, **2018**, 10, 40-47	19.4	52
199	Solvent-Induced Rearrangement of Ion-Transport Channels: A Way to Create Advanced Porous Membranes for Vanadium Flow Batteries. *Advanced Functional Materials*, **2017**, 27, 1604587	15.6	51
198	Rational design of a nested pore structure sulfur host for fast Li/S batteries with a long cycle life. *Journal of Materials Chemistry A*, **2016**, 4, 1653-1662	13	49
197	Free-Standing Thin Webs of Activated Carbon Nanofibers by Electrospinning for Rechargeable Li-O2 Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 1937-42	9.5	49
196	A low cost shutdown sandwich-like composite membrane with superior thermo-stability for lithium-ion battery. *Journal of Membrane Science*, **2017**, 542, 1-7	9.6	49
195	Composite porous membranes with an ultrathin selective layer for vanadium flow batteries. *Chemical Communications*, **2014**, 50, 4596-9	5.8	48
194	Investigation on the performance evaluation method of flow batteries. *Journal of Power Sources*, **2014**, 266, 145-149	8.9	48
193	The transfer behavior of different ions across anion and cation exchange membranes under vanadium flow battery medium. *Journal of Power Sources*, **2014**, 271, 1-7	8.9	47
192	Hydrophilic porous poly(sulfone) membranes modified by UV-initiated polymerization for vanadium flow battery application. *Journal of Membrane Science*, **2014**, 454, 478-487	9.6	47
191	Crosslinkable sulfonated poly (diallyl-bisphenol ether ether ketone) membranes for vanadium redox flow battery application. *Journal of Power Sources*, **2012**, 217, 309-315	8.9	46
190	A highly stable neutral viologen/bromine aqueous flow battery with high energy and power density. *Chemical Communications*, **2019**, 55, 4801-4804	5.8	45
189	Layer-by-Layer Assembled C/S Cathode with Trace Binder for Li-S Battery Application. *ACS Applied Materials & Interfaces*, **2015**, 7, 25002-6	9.5	45
188	Improving the electrochemical performance of Na 3 V 2 (PO 4) 3 cathode in sodium ion batteries through Ce/V substitution based on rational design and synthesis optimization. *Electrochimica Acta*, **2017**, 238, 288-297	6.7	44
187	Progress on the electrode materials towards vanadium flow batteries (VFBs) with improved power density. *Journal of Energy Chemistry*, **2018**, 27, 1292-1303	12	44
186	A Long Cycle Life, Self-Healing Zinc–Iodine Flow Battery with High Power Density. *Angewandte Chemie*, **2018**, 130, 11341-11346	3.6	44
185	Scalable and Economic Synthesis of High-Performance Na3V2(PO4)2F3 by a Solvothermal–Ball-Milling Method. *ACS Energy Letters*, **2019**, 4, 1565-1571	20.1	43
184	A highly efficient electrocatalyst for oxygen reduction reaction: phosphorus and nitrogen co-doped hierarchically ordered porous carbon derived from an iron-functionalized polymer. *Nanoscale*, **2016**, 8, 1580-7	7.7	43

183	The Challenge of Lithium Metal Anodes for Practical Applications. *Small Methods*, **2019**, 3, 1800551	12.8	42
182	A Bi-doped Li3V2(PO4)3/C cathode material with an enhanced high-rate capacity and long cycle stability for lithium ion batteries. *Dalton Transactions*, **2015**, 44, 17579-86	4.3	42
181	Shapeable electrodes with extensive materials options and ultra-high loadings for energy storage devices. *Nano Energy*, **2017**, 39, 418-428	17.1	42
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179	A novel solvent-template method to manufacture nano-scale porous membranes for vanadium flow battery applications. *Journal of Materials Chemistry A*, **2014**, 2, 9524	13	41
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175	Morphology and electrochemical properties of perfluorosulfonic acid ionomers for vanadium flow battery applications: effect of side-chain length. *ChemSusChem*, **2013**, 6, 1262-9	8.3	40
174	Polysulfide Stabilization: A Pivotal Strategy to Achieve High Energy Density Li□ Batteries with Long Cycle Life. *Advanced Functional Materials*, **2018**, 28, 1704987	15.6	39
173	Highly stable aromatic poly (ether sulfone) composite ion exchange membrane for vanadium flow battery. *Journal of Membrane Science*, **2017**, 541, 465-473	9.6	39
172	Trithiocyanuric acid derived g□3N4 for anchoring the polysulfide in Li□ batteries application. *Journal of Energy Chemistry*, **2020**, 43, 71-77	12	39
171	Towards enhanced sodium storage by investigation of the Li ion doping and rearrangement mechanism in Na3V2(PO4)3 for sodium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 4209-4218	13	38
170	Low-Cost Room-Temperature Synthesis of NaVO□1.69HO Nanobelts for Mg Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 4757-4766	9.5	38
169	Investigation of sulfonated poly(ether ether ketone sulfone)/heteropolyacid composite membranes for high temperature fuel cell applications. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 1967-1978	2.6	37
168	Technologies and perspectives for achieving carbon neutrality. *Innovation(China)*, **2021**, 2, 100180	17.8	37
167	Ultrafast and Stable Li-(De)intercalation in a Large Single Crystal H-Nb O Anode via Optimizing the Homogeneity of Electron and Ion Transport. *Advanced Materials*, **2020**, 32, e2001001	24	36
166	Effects of phosphate additives on the stability of positive electrolytes for vanadium flow batteries. *Electrochimica Acta*, **2015**, 164, 307-314	6.7	35

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164	A beryllium-free deep-UV nonlinear optical material CsNaMgP2O7 with honeycomb-like topological layers. *Journal of Materials Chemistry C*, **2018**, 6, 3910-3916	7.1	35
163	Synthesis and electrochemical properties of Li3V2(P1−xBxO4)3/C cathode materials. *Journal of Materials Chemistry A*, **2015**, 3, 19469-19475	13	33
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161	Solvent responsive silica composite nanofiltration membrane with controlled pores and improved ion selectivity for vanadium flow battery application. *Journal of Power Sources*, **2015**, 274, 1126-1134	8.9	33
160	Intercalated polyaniline in V2O5 as a unique vanadium oxide bronze cathode for highly stable aqueous zinc ion battery. *Energy Storage Materials*, **2021**, 38, 590-598	19.4	33
159	Advanced porous membranes with slit-like selective layer for flow battery. *Nano Energy*, **2018**, 54, 73-81	17.1	33
158	Membranes with well-defined ions transport channels fabricated via solvent-responsive layer-by-layer assembly method for vanadium flow battery. *Scientific Reports*, **2014**, 4, 4016	4.9	32
157	Porous polyetherimide membranes with tunable morphology for lithium-ion battery. *Journal of Membrane Science*, **2018**, 565, 42-49	9.6	32
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154	Porous membrane with improved dendrite resistance for high-performance lithium metal-based battery. *Journal of Membrane Science*, **2020**, 605, 118108	9.6	31
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148	Anode for Zinc-Based Batteries: Challenges, Strategies, and Prospects. *ACS Energy Letters*, **2021**, 6, 2765-2785	20.8	30

147	Application and degradation mechanism of polyoxadiazole based membrane for vanadium flow batteries. *Journal of Membrane Science*, **2015**, 488, 194-202	9.6	29
146	Solvent resistant nanofiltration membranes based on crosslinked polybenzimidazole. *RSC Advances*, **2016**, 6, 16925-16932	3.7	29
145	Performance gains in single flow zinc□nickel batteries through novel cell configuration. *Electrochimica Acta*, **2013**, 105, 618-621	6.7	29
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142	Fabrication of a nano-Li+-channel interlayer for high performance Li□ battery application. *RSC Advances*, **2015**, 5, 26273-26280	3.7	28
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137	Practical Challenges in Employing Graphene for Lithium-Ion Batteries and Beyond. *Small Methods*, **2017**, 1, 1700099	12.8	27
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135	Fast kinetics of Mg2+/Li+ hybrid ions in a polyanion Li3V2(PO4)3 cathode in a wide temperature range. *Journal of Materials Chemistry A*, **2019**, 7, 9968-9976	13	27
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131	Dramatic performance gains of a novel circular vanadium flow battery. *Journal of Power Sources*, **2015**, 277, 104-109	8.9	26
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125	Hydrophilic poly(vinylidene fluoride) porous membrane with well connected ion transport networks for vanadium flow battery. *Journal of Power Sources*, **2015**, 298, 228-235	8.9	24
124	Superior Na-storage performance of molten-state-blending-synthesized monoclinic NaVPO4F nanoplates for Na-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 24201-24209	13	24
123	The porous membrane with tunable performance for vanadium flow battery: The effect of charge. *Journal of Power Sources*, **2017**, 342, 327-334	8.9	23
122	A TiN Nanorod Array 3D Hierarchical Composite Electrode for Ultrahigh-Power-Density Bromine-Based Flow Batteries. *Advanced Materials*, **2019**, 31, e1904690	24	23
121	Battery assembly optimization: Tailoring the electrode compression ratio based on the polarization analysis in vanadium flow batteries. *Applied Energy*, **2019**, 235, 495-508	10.7	23
120	Advanced charged porous membranes with flexible internal crosslinking structures for vanadium flow batteries. *Journal of Materials Chemistry A*, **2017**, 5, 6193-6199	13	22
119	Ultrathin free-standing electrospun carbon nanofibers web as the electrode of the vanadium flow batteries. *Journal of Energy Chemistry*, **2017**, 26, 730-737	12	22
118	Tuning the electrocatalytic properties of a Cu electrode with organic additives containing amine group for CO2 reduction. *Journal of Materials Chemistry A*, **2019**, 7, 5453-5462	13	22
117	Performance and potential problems of high power density zinc□nickel single flow batteries. *RSC Advances*, **2015**, 5, 1772-1776	3.7	22
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115	A Venus-flytrap-inspired pH-responsive porous membrane with internal crosslinking networks. *Journal of Materials Chemistry A*, **2017**, 5, 25555-25561	13	22
114	N-Doped Nanoporous Carbon from Biomass as a Highly Efficient Electrocatalyst for the CO2 Reduction Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5249-5255	8.3	21
113	Highly stable membranes based on sulfonated fluorinated poly(ether ether ketone)s with bifunctional groups for vanadium flow battery application. *Polymer Chemistry*, **2015**, 6, 5385-5392	4.9	21
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