Steven Holdcroft

List of Publications by Year
in descending order

299 papers	17,547 citations	13332 70 h-index	21239 119 g-index
305 all docs	305 docs citations	305 times ranked	13505 citing authors

#	Article	IF	Citations
1	Catalyst layers for fluorineâ€free hydrocarbon PEMFCs. Electrochimica Acta, 2022, 401, 139479.	2.6	5
2	Permselectivity of ionene-based, AemionÂ® anion exchange membranes. Journal of Membrane Science, 2022, 641, 119917.	4.1	13
3	Transition metal and nitrogen-doped mesoporous carbons as cathode catalysts for anion-exchange membrane fuel cells. Applied Catalysis B: Environmental, 2022, 306, 121113.	10.8	42
4	Nitrogen and Phosphorus Dual-Doped Silicon Carbide-Derived Carbon/Carbon Nanotube Composite for the Anion-Exchange Membrane Fuel Cell Cathode. ACS Applied Energy Materials, 2022, 5, 2949-2958.	2.5	21
5	Polypyrrole and Polythiophene Modified Carbon Nanotubeâ€Based Cathode Catalysts for Anion Exchange Membrane Fuel Cell. ChemElectroChem, 2022, 9, .	1.7	9
6	Nonconformal Particles of Hyperbranched Sulfonated Phenylated Poly(phenylene) Ionomers as Proton-Conducting Pathways in Proton Exchange Membrane Fuel Cell Catalyst Layers. ACS Energy Letters, 2022, 7, 2070-2078.	8.8	3
7	On the stability of anion exchange membrane fuel cells incorporating polyimidazolium ionene (Aemion+Â®) membranes and ionomers. Sustainable Energy and Fuels, 2022, 6, 3551-3564.	2.5	18
8	Effect of steric constraints on the physicoâ€electrochemical properties of sulfonated polyaromatic copolymers. Polymer International, 2021, 70, 96-106.	1.6	6
9	Transition metal-containing nitrogen-doped nanocarbon catalysts derived from 5-methylresorcinol for anion exchange membrane fuel cell application. Journal of Colloid and Interface Science, 2021, 584, 263-274.	5.0	50
10	Non-precious metal cathodes for anion exchange membrane fuel cells from ball-milled iron and nitrogen doped carbide-derived carbons. Renewable Energy, 2021, 167, 800-810.	4.3	50
11	On the evolution of sulfonated polyphenylenes as proton exchange membranes for fuel cells. Materials Advances, 2021, 2, 4966-5005.	2.6	41
12	Designing anion exchange membranes for CO2 electrolysers. Nature Energy, 2021, 6, 339-348.	19.8	209
13	Mesoporous iron-nitrogen co-doped carbon material as cathode catalyst for the anion exchange membrane fuel cell. Journal of Power Sources Advances, 2021, 8, 100052.	2.6	43
14	Does power ultrasound affect hydrocarbon Ionomers?. Ultrasonics Sonochemistry, 2021, 75, 105588.	3.8	6
15	Spectroelectrochemical Detection of Water Dissociation in Bipolar Membranes. ACS Applied Materials & Interfaces, 2021, 13, 46125-46133.	4.0	8
16	Iron and cobalt containing electrospun carbon nanofibre-based cathode catalysts for anion exchange membrane fuel cell. International Journal of Hydrogen Energy, 2021, 46, 31275-31287.	3.8	30
17	Hydrocarbon-based Pemionâ„¢ proton exchange membrane fuel cells with state-of-the-art performance. Sustainable Energy and Fuels, 2021, 5, 3687-3699.	2.5	34
18	The effect of ionomer content in catalyst layers in anion-exchange membrane water electrolyzers prepared with reinforced membranes (Aemion+â„¢). Journal of Materials Chemistry A, 2021, 9, 15744-15754.	5.2	35

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19	Carbonate Ion Crossover in Zero-Gap, KOH Anolyte CO₂ Electrolysis. Journal of Physical Chemistry C, 2021, 125, 25446-25454.	1.5	32
20	Measuring the thermal conductivity of membrane and porous transport layer in proton and anion exchange membrane water electrolyzers for temperature distribution modeling. International Journal of Hydrogen Energy, 2020, 45, 1236-1254.	3.8	23
21	Molecular branching as a simple approach to improving polymer electrolyte membranes. Journal of Membrane Science, 2020, 595, 117539.	4.1	33
22	Does power ultrasound affect NafionÂ® dispersions?. Ultrasonics Sonochemistry, 2020, 60, 104758.	3.8	22
23	Electrocatalytic oxygen reduction reaction on iron phthalocyanine-modified carbide-derived carbon/carbon nanotube composite electrocatalysts. Electrochimica Acta, 2020, 334, 135575.	2.6	50
24	Stabilization of Liâ€"S batteries with a lean electrolyte <i>via</i> ion-exchange trapping of lithium polysulfides using a cationic, polybenzimidazolium binder. Sustainable Energy and Fuels, 2020, 4, 1180-1190.	2.5	15
25	Tuning Ion Exchange Capacity in Hydroxide-Stable Poly(arylimidazolium) Ionenes: Increasing the Ionic Content Decreases the Dependence of Conductivity and Hydration on Temperature and Humidity. Macromolecules, 2020, 53, 10548-10560.	2.2	23
26	Effectiveness of CuO Nanoparticle-Based pâ€"n Bulk-Heterojunction Electrodes for Photoelectrochemical Hydrogen Generation. ACS Applied Energy Materials, 2020, 3, 8988-9001.	2.5	8
27	Understanding the role of acidâ€"base interactions using architecturally-controlled, pyridyl-bearing sulfonated phenylated polyphenylenes. Journal of Materials Chemistry A, 2020, 8, 23866-23883.	5.2	5
28	Cathode Catalysts Based on Cobalt- and Nitrogen-Doped Nanocarbon Composites for Anion Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2020, 3, 5375-5384.	2.5	61
29	The Nanostructure of HMT-PMBI, a Sterically Hindered Ionene. Macromolecules, 2020, 53, 4908-4916.	2.2	4
30	Electrospun Polyacrylonitrileâ€Derived Co or Fe Containing Nanofibre Catalysts for Oxygen Reduction Reaction at the Alkaline Membrane Fuel Cell Cathode. ChemCatChem, 2020, 12, 4568-4581.	1.8	31
31	Cathode starvation as an accelerated conditioning procedure for perfluorosulfonic acid ionomer fuel cells. Journal of Power Sources Advances, 2020, 3, 100012.	2.6	23
32	Ironâ€•and Nitrogenâ€Doped Grapheneâ€Based Catalysts for Fuel Cell Applications. ChemElectroChem, 2020, 7, 1739-1747.	1.7	53
33	Improving the water management in anion-exchange membrane fuel cells <i>via</i> ultra-thin, directly deposited solid polymer electrolyte. RSC Advances, 2020, 10, 8645-8652.	1.7	35
34	Voltammetry at Hexamethyl-P-Terphenyl Poly(Benzimidazolium) (HMT-PMBI)-Coated Glassy Carbon Electrodes: Charge Transport Properties and Detection of Uric and Ascorbic Acid. Sensors, 2020, 20, 443.	2.1	9
35	Nitrogen-doped carbide-derived carbon/carbon nanotube composites as cathode catalysts for anion exchange membrane fuel cell application. Applied Catalysis B: Environmental, 2020, 272, 119012.	10.8	72
36	Structureâ€"Property Relationships in Sterically Congested Proton-Conducting Poly(phenylene)s: the Impact of Biphenyl Linearity. Macromolecules, 2020, 53, 3119-3138.	2.2	26

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37	Communicationâ€"Non-Fluorous, Hydrocarbon PEMFCs, Generating > 1 W cmâˆ'2 Power. Journal of the Electrochemical Society, 2020, 167, 084502.	1.3	14
38	High-performance alkaline water electrolysis using Aemionâ„¢ anion exchange membranes. Journal of Power Sources, 2020, 451, 227814.	4.0	138
39	Water transport through hydrocarbon-based proton exchange membranes. Journal of Membrane Science, 2020, 610, 118276.	4.1	9
40	Transition Metal-Containing Nitrogen-Doped Nanocarbons Derived from 5-Methylresorcinol for Anion Exchange Membrane Fuel Cell Application. ECS Meeting Abstracts, 2020, MA2020-02, 2361-2361.	0.0	0
41	Visualization of Hydroxide Ion Formation upon Electrolytic Water Splitting in an Anion Exchange Membrane. , 2019, 1, 362-366.		42
42	High Performance Anion Exchange Membrane Electrolysis Using Plasma-Sprayed, Non-Precious-Metal Electrodes. ACS Applied Energy Materials, 2019, 2, 7903-7912.	2.5	80
43	Electrochemical Characterization of Hydrocarbon Bipolar Membranes with Varying Junction Morphology. ACS Applied Energy Materials, 2019, 2, 6817-6824.	2.5	22
44	Poly(bis-arylimidazoliums) possessing high hydroxide ion exchange capacity and high alkaline stability. Nature Communications, 2019, 10, 2306.	5.8	239
45	Effect of CO2 on the properties of anion exchange membranes for fuel cell applications. Journal of Membrane Science, 2019, 586, 140-150.	4.1	61
46	Energy level alignment and interfacial dipole layer formation at the P3HT:PCBM-Electrolyte interface in organic photoelectrochemical cells. Solar Energy Materials and Solar Cells, 2019, 200, 110009.	3.0	0
47	30â€Î¼m thin hexamethyl-p-terphenyl poly(benzimidazolium) anion exchange membrane for vanadium redox flow batteries. Electrochemistry Communications, 2019, 102, 37-40.	2.3	24
48	Sulfo-Phenylated Polyphenylenes Containing Sterically Hindered Pyridines. Macromolecules, 2019, 52, 2548-2559.	2.2	36
49	Stability of Hydrocarbon Fuel Cell Membranes: Reaction of Hydroxyl Radicals with Sulfonated Phenylated Polyphenylenes. Chemistry of Materials, 2019, 31, 1441-1449.	3.2	42
50	Microwave-assisted Dielsâ€"Alder polycondensation of proton conducting poly(phenylene)s. Polymer Chemistry, 2019, 10, 1668-1685.	1.9	18
51	Sterically-encumbered ionenes as hydroxide ion-conducting polymer membranes. Current Opinion in Electrochemistry, 2019, 18, 99-105.	2.5	21
52	Vapor-fed electrolysis of water using earth-abundant catalysts in Nafion or in bipolar Nafion/poly(benzimidazolium) membranes. Sustainable Energy and Fuels, 2019, 3, 3611-3626.	2.5	14
53	Photocathodic hydrogen evolution from catalysed nanoparticle films prepared from stable aqueous dispersions of P3HT and PCBM. Synthetic Metals, 2019, 247, 10-17.	2.1	8
54	Doped, Defectâ€Enriched Carbon Nanotubes as an Efficient Oxygen Reduction Catalyst for Anion Exchange Membrane Fuel Cells. Advanced Materials Interfaces, 2018, 5, 1800184.	1.9	37

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55	Water Uptake Study of Anion Exchange Membranes. Macromolecules, 2018, 51, 3264-3278.	2.2	141
56	Morphology of Anion-Conducting Ionenes Investigated by X-ray Scattering and Simulation. Journal of Physical Chemistry B, 2018, 122, 1730-1737.	1.2	13
57	Photocrosslinking of low band-gap conjugated polymers using alkyl chloride sidechains: Toward high-efficiency, thermally stable polymer solar cells. Journal of Materials Research, 2018, 33, 1879-1890.	1.2	5
58	Water permeation through anion exchange membranes. Journal of Power Sources, 2018, 375, 442-451.	4.0	60
59	Hydrogen evolution at conjugated polymer nanoparticle electrodes. Canadian Journal of Chemistry, 2018, 96, 148-157.	0.6	10
60	SFU Chemistry 1965â€"2016. Canadian Journal of Chemistry, 2018, 96, v-ix.	0.6	0
61	Sulfophenylated Terphenylene Copolymer Membranes and Ionomers. ChemSusChem, 2018, 11, 4033-4043.	3.6	39
62	Fuel Cell Catalyst Layers and Membrane-Electrode Assemblies Containing Multiblock Poly(arylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2018, 165, F891-F897.	1.3	9
63	Towards a stable ion-solvating polymer electrolyte for advanced alkaline water electrolysis. Journal of Materials Chemistry A, 2017, 5, 5055-5066.	5.2	63
64	Sulfur doped reduced graphene oxide as metal-free catalyst for the oxygen reduction reaction in anion and proton exchange fuel cells. Electrochemistry Communications, 2017, 77, 71-75.	2.3	78
65	Tridoped Reduced Graphene Oxide as a Metalâ€Free Catalyst for Oxygen Reduction Reaction Demonstrated in Acidic and Alkaline Polymer Electrolyte Fuel Cells. Advanced Sustainable Systems, 2017, 1, 1600038.	2.7	50
66	Special Section on Anion Exchange Membranes and AEM-Based Systems. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	1.1	1
67	Probing nanoscale membrane degradation in fuel cells through electron tomography. Journal of Membrane Science, 2017, 539, 138-143.	4.1	16
68	Highly Stable, Low Gas Crossover, Protonâ€Conducting Phenylated Polyphenylenes. Angewandte Chemie - International Edition, 2017, 56, 9058-9061.	7.2	83
69	Cationic Polyelectrolytes, Stable in 10 M KOH_{aq} at 100 Â°C. ACS Macro Letters, 2017, 6, 1089-1093.	2.3	140
70	Highly Stable, Low Gas Crossover, Protonâ€Conducting Phenylated Polyphenylenes. Angewandte Chemie, 2017, 129, 9186-9189.	1.6	24
71	Transparent Bipolar Membrane for Water Splitting Applications. ACS Applied Materials & Interfaces, 2017, 9, 26749-26755.	4.0	41
72	The reasons for the high power density of fuel cells fabricated with directly deposited membranes. Journal of Power Sources, 2016, 326, 170-175.	4.0	55

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73	Aqueous Photoelectrochemical Reduction of Anthraquinone Disulfonate at Organic Polymer Films. Macromolecular Chemistry and Physics, 2016, 217, 1119-1127.	1.1	16
74	The Control and Effect of Pore Size Distribution in AEMFC Catalyst Layers. Journal of the Electrochemical Society, 2016, 163, F353-F358.	1.3	60
75	Poly(phenylen) und <i>m</i>â€‑Terphenyl als starke Schutzgruppen zur Herstellung von stabilen organischen Hydroxiden. Angewandte Chemie, 2016, 128, 4898-4902.	1.6	1
76	A completely spray-coated membrane electrode assembly. Electrochemistry Communications, 2016, 70, 65-68.	2.3	39
77	Hexamethyl-p-terphenyl poly(benzimidazolium): a universal hydroxide-conducting polymer for energy conversion devices. Energy and Environmental Science, 2016, 9, 2130-2142.	15.6	213
78	Water transport through short side chain perfluorosulfonic acid ionomer membranes. Journal of Membrane Science, 2016, 520, 155-165.	4.1	30
79	Effect of ketone versus sulfone groups on the properties of poly(arylene ether)-based proton exchange membranes. Journal of Materials Science, 2016, 51, 9805-9821.	1.7	16
80	Simultaneous, Synergistic Control of Ion Exchange Capacity and Cross-Linking of Sterically-Protected Poly(benzimidazolium)s. Chemistry of Materials, 2016, 28, 8060-8070.	3.2	47
81	Electrochemical Reduction of Dissolved Oxygen in Alkaline, Solid Polymer Electrolyte Films. Journal of the American Chemical Society, 2016, 138, 15465-15472.	6.6	25
82	Poly(phenylene) and <i>m</i>â€‑Terphenyl as Powerful Protecting Groups for the Preparation of Stable Organic Hydroxides. Angewandte Chemie - International Edition, 2016, 55, 4818-4821.	7.2	95
83	Progression in the Morphology of Fuel Cell Membranes upon Conjoint Chemical and Mechanical Degradation. Journal of the Electrochemical Society, 2016, 163, F637-F643.	1.3	42
84	Morphological characterization of a new low-bandgap thermocleavable polymer showing stable photovoltaic properties. Journal of Materials Chemistry A, 2016, 4, 10650-10658.	5.2	8
85	CeO 2 , ZrO 2 and YSZ as mitigating additives against degradation of proton exchange membranes by free radicals. Journal of Membrane Science, 2016, 498, 94-104.	4.1	59
86	Effect of free radical-induced degradation on water permeation through PFSA ionomer membranes. International Journal of Hydrogen Energy, 2015, 40, 16714-16723.	3.8	31
87	Determination of O₂Mass Transport at the Pt | PFSA Ionomer Interface under Reduced Relative Humidity. ACS Applied Materials & Interfaces, 2015, 7, 27314-27323.	4.0	70
88	Synthesis of highly sulfonated polyarylene ethers containing alternating aromatic units. Materials Today Communications, 2015, 3, 114-121.	0.9	21
89	Alcohol-Soluble, Sulfonated Poly(arylene ether)s: Investigation of Hydrocarbon Ionomers for Proton Exchange Membrane Fuel Cell Catalyst Layers. Journal of the Electrochemical Society, 2015, 162, F513-F518.	1.3	29
90	Evolution of water sorption in catalyst coated membranes subjected to combined chemical and mechanical degradation. Physical Chemistry Chemical Physics, 2015, 17, 13872-13881.	1.3	19

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91	Improved Pt-utilization efficiency of low Pt-loading PEM fuel cell electrodes using direct membrane deposition. Electrochemistry Communications, 2015, 60, 168-171.	2.3	54
92	Structurally-Defined, Sulfo-Phenylated, Oligophenylenes and Polyphenylenes. Journal of the American Chemical Society, 2015, 137, 12223-12226.	6.6	85
93	Photoelectrochemical Hydrogen Evolution: Single-Layer, Conjugated Polymer Films Bearing Surface-Deposited Pt Nanoparticles. Journal of the Electrochemical Society, 2015, 162, H551-H556.	1.3	23
94	Time-Dependent Mass Transport for O2 Reduction at the Pt Â Perfluorosulfonic Acid Ionomer Interface. ECS Electrochemistry Letters, 2014, 4, F9-F12.	1.9	8
95	Investigations of crystallinity and chain entanglement on sorption and conductivity of proton exchange membranes. Journal of Membrane Science, 2014, 469, 251-261.	4.1	23
96	Synthesis and proton conductivity of sulfonated, multi-phenylated poly(arylene ether)s. Journal of Polymer Science Part A, 2014, 52, 2579-2587.	2.5	16
97	Polybenzimidazoles with Pendant Quaternary Ammonium Groups as Anion Exchange Membranes: Synthesis, Characterization and Alkaline Stability. Materials Research Society Symposia Proceedings, 2014, 1677, 1.	0.1	2
98	Membrane degradation during combined chemical and mechanical accelerated stress testing of polymer electrolyte fuel cells. Journal of Power Sources, 2014, 257, 102-110.	4.0	179
99	Characterization of pore network structure in catalyst layers of polymer electrolyte fuel cells. Journal of Power Sources, 2014, 247, 322-326.	4.0	32
100	Hydroxide-Stable Ionenes. ACS Macro Letters, 2014, 3, 444-447.	2.3	118
101	NafionÂ®/ODF-silica composite membranes for medium temperature proton exchange membrane fuel cells. Journal of Power Sources, 2014, 246, 950-959.	4.0	32
102	Fuel Cell Catalyst Layers: A Polymer Science Perspective. Chemistry of Materials, 2014, 26, 381-393.	3.2	382
103	Selective Formation of Hydrogen and Hydroxyl Radicals by Electron Beam Irradiation and Their Reactivity with Perfluorosulfonated Acid Ionomer. Journal of the American Chemical Society, 2013, 135, 15923-15932.	6.6	113
104	Controlling Water Content and Proton Conductivity through Copolymer Morphology. Macromolecules, 2013, 46, 9676-9687.	2.2	17
105	The importance of water transport on short-side chain perfluorosulfonic acid membrane fuel cells operating under low relative humidity. Journal of Power Sources, 2013, 242, 877-883.	4.0	24
106	Aqueous photocathode activity of regioregular poly(3-hexylthiophene). Polymer Chemistry, 2013, 4, 5345.	1.9	43
107	Enhancing the phase segregation and connectivity of hydrophilic channels by blending highly sulfonated graft copolymers with fluorous homopolymers. Journal of Materials Chemistry A, 2013, 1, 8118.	5.2	15
108	Quantifying the Structural Changes of Perfluorosulfonated Acid Ionomer upon Reaction with Hydroxyl Radicals. Journal of the American Chemical Society, 2013, 135, 8181-8184.	6.6	80

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109	Synthesis of highly sulfonated polybenzimidazoles by direct copolymerization and grafting. Journal of Polymer Science Part A, 2013, 51, 3654-3666.	2.5	22
110	Controlling Crystallinity in Graft Ionomers, and Its Effect on Morphology, Water Sorption, and Proton Conductivity of Graft Ionomer Membranes. Chemistry of Materials, 2013, 25, 1935-1946.	3.2	46
111	Oxygen Transport Parameters in Nafion(R) 117 under Controlled Relative Humidity. ECS Transactions, 2013, 58, 1097-1103.	0.3	0
112	Ionomer in the Catalyst Layer. ECS Transactions, 2013, 50, 47-50.	0.3	0
113	Pt Band Formation Enhances the Stability of Fuel Cell Membranes. ECS Electrochemistry Letters, 2013, 2, F33-F35.	1.9	50
114	Interfacial vs. Internal Water Transport Resistance of Sulfonated Hydrocarbon Proton-Exchange Membranes. ECS Electrochemistry Letters, 2013, 2, F22-F24.	1.9	15
115	Correlation of charge extraction properties and short circuit current in various organic binary and ternary blend photovoltaic devices. Applied Physics A: Materials Science and Processing, 2012, 108, 515-520.	1.1	4
116	Star Polymers of Sodium Styrenesulfonate Prepared by One-Pot TEMPO-Controlled SFRP. Australian Journal of Chemistry, 2012, 65, 1117.	0.5	4
117	Photoinduced electron transfer in multilayer films composed of conjugated polyelectrolyte and amphiphilic copolymer hosting electron acceptor molecules. Journal of Materials Chemistry, 2012, 22, 140-145.	6.7	7
118	Structural effects on the nano-scale morphology and conductivity of ionomer blends. Journal of Materials Chemistry, 2012, 22, 24348.	6.7	13
119	High Ion Exchange Capacity, Sulfonated Polybenzimidazoles. ACS Symposium Series, 2012, , 221-231.	0.5	3
120	Alternative Proton Exchange Membranes by Chain-Growth Polymerization. , 2012, , 651-689.		2
121	Solution-processed superhydrophobic conjugated polymer films. Soft Matter, 2012, 8, 5753.	1.2	10
122	A Stable Hydroxide-Conducting Polymer. Journal of the American Chemical Society, 2012, 134, 10753-10756.	6.6	327
123	Water, proton, and oxygen transport in high IEC, short side chain PFSA ionomer membranes: consequences of a frustrated network. Physical Chemistry Chemical Physics, 2011, 13, 18055.	1.3	54
124	Hydrocarbon proton conducting polymers for fuel cell catalyst layers. Energy and Environmental Science, 2011, 4, 1575.	15.6	89
125	Ionic Purity and Connectivity of Proton-Conducting Channels in Fluorous-Ionic Diblock Copolymers. Macromolecules, 2011, 44, 8845-8857.	2.2	35
126	Anion conducting poly(dialkyl benzimidazolium) salts. Polymer Chemistry, 2011, 2, 1641.	1.9	96

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127	Ï€-Conjugated polymers with thermocleavable substituents for use as active layers in organic photovoltaics. Polymer Chemistry, 2011, 2, 175-180.	1.9	20
128	PEMFC Catalyst Layers: The Role of Micropores and Mesopores on Water Sorption and Fuel Cell Activity. ACS Applied Materials & Interfaces, 2011, 3, 1827-1837.	4.0	160
129	Enhancing the durability of polymer solar cells using gold nano-dots. Solar Energy Materials and Solar Cells, 2011, 95, 3106-3113.	3.0	8
130	Highly temperature dependent mass-transport parameters for ORR in NafionÂ® 211. Journal of Electroanalytical Chemistry, 2011, 651, 211-215.	1.9	12
131	Fuel cell catalyst layers containing short-side-chain perfluorosulfonic acid ionomers. Journal of Power Sources, 2011, 196, 179-181.	4.0	54
132	Low equivalent weight short-side-chain perfluorosulfonic acid ionomers in fuel cell cathode catalyst layers. Journal of Power Sources, 2011, 196, 6168-6176.	4.0	47
133	Water Permeation Through Catalyst-Coated Membranes. Electrochemical and Solid-State Letters, 2010, 13, B51.	2.2	11
134	Structureâ€Morphologyâ€Property Relationships of Nonâ€Perfluorinated Protonâ€Conducting Membranes. Advanced Materials, 2010, 22, 4667-4690.	11.1	526
135	Fuel Cells: Structure-Morphology-Property Relationships of Non-Perfluorinated Proton-Conducting Membranes (Adv. Mater. 42/2010). Advanced Materials, 2010, 22, 4660-4660.	11.1	4
136	Properties of NafionÂ® NR-211 membranes for PEMFCs. Journal of Membrane Science, 2010, 356, 44-51.	4.1	246
137	Thickness dependence of water permeation through proton exchange membranes. Journal of Membrane Science, 2010, 364, 183-193.	4.1	70
138	Effects of annealing and degradation on regioregular polythiophene-based bulk heterojunction organic photovoltaic devices. Solar Energy Materials and Solar Cells, 2010, 94, 2258-2264.	3.0	62
139	Sulfonated polybenzimidazoles: Proton conduction and acidâ€“base crosslinking. Journal of Polymer Science Part A, 2010, 48, 3640-3650.	2.5	64
140	Modeling the Effect of Annealing and Regioregularity on Electron and Hole Transport Characteristics of Bulk Heterojunction Organic Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2010, 1270, 1.	0.1	0
141	Microstructureâ€“Performance Relationships of sPEEK-Based Catalyst Layers. Journal of the Electrochemical Society, 2010, 157, B1230.	1.3	18
142	Poly(3-hexylthiophene) bearing pendant fullerenes: aggregation vs. self-organization. Polymer Chemistry, 2010, 1, 708.	1.9	48
143	On the Micro-, Meso-, and Macroporous Structures of Polymer Electrolyte Membrane Fuel Cell Catalyst Layers. ACS Applied Materials & Interfaces, 2010, 2, 375-384.	4.0	315
144	Directed Growth of 1D Assemblies of Perylene Diimide from a Conjugated Polymer. Chemistry of Materials, 2010, 22, 2287-2296.	3.2	16

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145	Toward Stabilization of Domains in Polymer Bulk Heterojunction Films. Chemistry of Materials, 2010, 22, 5371-5376.	3.2	73
146	High band gap poly(9,9-dihexylfluorene-alt-bithiophene) blended with [6,6]-phenyl C61 butyric acid methyl ester for use in efficient photovoltaic devices. Applied Physics Letters, 2009, 94, .	1.5	37
147	Factors Influencing Electrochemical Properties and Performance of Hydrocarbon-Based Electrolyte PEMFC Catalyst Layers. Journal of the Electrochemical Society, 2009, 156, B499.	1.3	49
148	Identification of Dominant Transport Mechanisms in PEMFC Cathode Catalyst Layers Operated under Low RH. ECS Transactions, 2009, 25, 1187-1192.	0.3	11
149	<i>Ex situ</i> Characterisation of Composite Nafion Membranes Containing Zirconium Hydrogen Phosphate. Fuel Cells, 2009, 9, 534-546.	1.5	22
150	Enhancement of Oxidative Stability of Polyfluorenes for Direct Thermal Lithography. Macromolecular Rapid Communications, 2009, 30, 2089-2095.	2.0	9
151	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. Solar Energy Materials and Solar Cells, 2009, 93, 1968-1977.	3.0	205
152	Polymer Solar Cells Based on Alternating and Statistical 4,7-Bis(4-octylphenyl-2-thienyl)-2,1,3-benzothiadiazole Copolymers. Journal of Physical Chemistry C, 2009, 113, 8505-8512.	1.5	12
153	Correlation of In Situ and Ex Situ Measurements of Water Permeation Through Nafion NRE211 Proton Exchange Membranes. Journal of the Electrochemical Society, 2009, 156, B782.	1.3	68
154	Nanostructure, Morphology, and Properties of Fluorous Copolymers Bearing Ionic Grafts. Macromolecules, 2009, 42, 9467-9480.	2.2	116
155	Nanostructured Photovoltaic Devices from Thermally-Reactive Ï€-Conjugated Polymer Blends. Chemistry of Materials, 2009, 21, 4631-4637.	3.2	12
156	Structureâ€"property relationships for a series of polyimide copolymers with sulfonated pendant groups. Polymer, 2008, 49, 4949-4959.	1.8	44
157	Ionomers for proton exchange membrane fuel cells with sulfonic acid groups on the endâ€groups: Novel branched poly(etherâ€ketone)s with 3,6â€ditritylâ€9<i>H</i>â€carbazole endâ€groups. Journal of Polymer Science Part A, 2008, 46, 3860-3868.	2.5	61
158	Bilayer Approach to Laserâ€Induced Thermal Patterning of Ï€â€Conjugated Polymers. Advanced Materials, 2008, 20, 2486-2490.	11.1	12
159	The effect of spatial confinement of NafionÂ® in porous membranes on macroscopic properties of the membrane. Journal of Membrane Science, 2008, 321, 100-113.	4.1	42
160	Transport properties of composite membranes containing silicon dioxide and NafionÂ®. Journal of Membrane Science, 2008, 325, 346-356.	4.1	83
161	Non-fluorinated proton-exchange membranes based on melt extruded SEBS/HDPE blends. Journal of Membrane Science, 2008, 325, 749-757.	4.1	24
162	Investigation of the through-plane impedance technique for evaluation of anisotropy of proton conducting polymer membranes. Journal of Electroanalytical Chemistry, 2008, 622, 145-152.	1.9	219

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163	Novel Organicâˆ’Inorganic Hybrids with Increased Water Retention for Elevated Temperature Proton Exchange Membrane Application. Chemistry of Materials, 2008, 20, 6857-6870.	3.2	84
164	Fuel cell cathode catalyst layers from â€œgreenâ€•catalyst inks. Energy and Environmental Science, 2008, 1, 184.	15.6	72
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