

Takeo Yamaguchi

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-graft filling polymerization: preparation of a new type of pervaporation membrane for organic liquid mixtures. <i>Macromolecules</i> , 1991, 24, 5522-5527.	2.2	262
2	A Molecular-Recognition Microcapsule for Environmental Stimuli-Responsive Controlled Release. <i>Advanced Materials</i> , 2002, 14, 386.	11.1	224
3	Development of a Molecular Recognition Ion Gating Membrane and Estimation of Its Pore Size Control. <i>Journal of the American Chemical Society</i> , 2002, 124, 7840-7846.	6.6	194
4	Preparation of thermo-responsive core-shell microcapsules with a porous membrane and poly(N-isopropylacrylamide) gates. <i>Journal of Membrane Science</i> , 2001, 192, 27-39.	4.1	182
5	An Extremely Low Methanol Crossover and Highly Durable Aromatic Pore-Filling Electrolyte Membrane for Direct Methanol Fuel Cells. <i>Advanced Materials</i> , 2007, 19, 592-596.	11.1	181
6	Pore-filling type polymer electrolyte membranes for a direct methanol fuel cell. <i>Journal of Membrane Science</i> , 2003, 214, 283-292.	4.1	174
7	Diffusive separation of propylene/propane with ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2014, 450, 215-223.	4.1	172
8	Preparation of Micron-Sized Monodispersed Thermo-responsive Core-Shell Microcapsules. <i>Langmuir</i> , 2002, 18, 1856-1864.	1.6	148
9	Development of a Fast Response Molecular Recognition Ion Gating Membrane. <i>Journal of the American Chemical Society</i> , 1999, 121, 4078-4079.	6.6	142
10	Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29373-29382.	4.0	139
11	Lithium based ceramic materials and membranes for high temperature CO ₂ separation. <i>Progress in Materials Science</i> , 2009, 54, 511-541.	16.0	134
12	Thermo-responsive transport through porous membranes with grafted PNIPAM gates. <i>AIChE Journal</i> , 2003, 49, 896-909.	1.8	130
13	Silicalite Membranes Modified by Counterdiffusion CVD Technique. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 4217-4223.	1.8	129
14	Ethanol/water transport through silicalite membranes. <i>Journal of Membrane Science</i> , 1998, 144, 161-171.	4.1	121
15	Polymer Electrolyte Membranes with a Pore-Filling Structure for a Direct Methanol Fuel Cell. <i>Advanced Materials</i> , 2003, 15, 1198-1201.	11.1	121
16	Preparation of Zeolite A and Faujasite Membranes from a Clear Solution. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 4682-4688.	1.8	116
17	A Novel Separation System Using Porous Thermosensitive Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 2491-2495.	1.8	115
18	Sol-gel synthesis of molecular sieving silica membranes. <i>Journal of Membrane Science</i> , 1997, 135, 237-243.	4.1	102

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19	Processing of Lithium Zirconate for Applications in Carbon Dioxide Separation: Structure and Properties of the Powders. <i>Journal of the American Ceramic Society</i> , 2004, 87, 68-74.	1.9	101
20	Ether cleavage-triggered degradation of benzyl alkylammonium cations for polyethersulfone anion exchange membranes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12009-12023.	1.3	98
21	DMFC performances using a pore-filling polymer electrolyte membrane for portable usages. <i>Electrochemistry Communications</i> , 2005, 7, 730-734.	2.3	89
22	Enhanced CO ₂ absorption kinetics in lithium silicate platelets synthesized by a sol-gel approach. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12792.	5.2	87
23	Study of SPG membrane emulsification processes for the preparation of monodisperse core-shell microcapsules. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 187-196.	5.0	84
24	Transport Properties of Carbon Dioxide through Amine Functionalized Carrier Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 4071-4077.	1.8	82
25	An Autonomous Phase Transition-Complexation/Decomplexation Polymer System with a Molecular Recognition Property. <i>Macromolecules</i> , 2006, 39, 2614-2620.	2.2	82
26	Lithium silicate based membranes for high temperature CO ₂ separation. <i>Journal of Membrane Science</i> , 2007, 294, 16-21.	4.1	81
27	Highly Active Bimetallic PdPt and CoPt Nanocrystals for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7464-7470.	1.5	76
28	Preparation of pervaporation membranes for removal of dissolved organics from water by plasma-graft filling polymerization. <i>Journal of Membrane Science</i> , 1994, 95, 39-49.	4.1	75
29	The proton conduction mechanism in a material consisting of packed acids. <i>Chemical Science</i> , 2014, 5, 4878-4887.	3.7	72
30	Osmotic Pressure Control in Response to a Specific Ion Signal at Physiological Temperature Using a Molecular Recognition Ion Gating Membrane. <i>Journal of the American Chemical Society</i> , 2004, 126, 6202-6203.	6.6	71
31	Transport phenomena through intercrystalline and intracrystalline pathways of silicalite zeolite membranes. <i>Journal of Membrane Science</i> , 2001, 187, 203-212.	4.1	70
32	Controlled Release of Model Drugs through a Molecular Recognition Ion Gating Membrane in Response to a Specific Ion Signal. <i>Langmuir</i> , 2006, 22, 3945-3949.	1.6	69
33	Connected nanoparticle catalysts possessing a porous, hollow capsule structure as carbon-free electrocatalysts for oxygen reduction in polymer electrolyte fuel cells. <i>Energy and Environmental Science</i> , 2015, 8, 3545-3549.	15.6	67
34	Cobalt-Modified Palladium Bimetallic Catalyst: A Multifunctional Electrocatalyst with Enhanced Efficiency and Stability toward the Oxidation of Ethanol and Formate in Alkaline Medium. <i>ACS Applied Energy Materials</i> , 2018, 1, 4140-4149.	2.5	67
35	Beneficial Role of Copper in the Enhancement of Durability of Ordered Intermetallic PtFeCu Catalyst for Electrocatalytic Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16311-16321.	4.0	66
36	Response Mechanism of a Molecular Recognition Ion Gating Membrane. <i>Macromolecules</i> , 2004, 37, 3407-3414.	2.2	65

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37	Immobilization of Hydroquinone through a Spacer to Polymer Grafted on Carbon Black for a High-Surface-Area Biofuel Cell Electrode. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10312-10319.	1.2	65
38	Evidence and mechanisms of filling polymerization by plasma-induced graft polymerization. , 1996, 34, 1203-1208.		64
39	Transport mechanism of carbon dioxide through perfluorosulfonate ionomer membranes containing an amine carrier. <i>Chemical Engineering Science</i> , 1996, 51, 4781-4789.	1.9	64
40	A Pore-Filling Electrolyte Membrane-Electrode Integrated System for a Direct Methanol Fuel Cell Application. <i>Journal of the Electrochemical Society</i> , 2002, 149, A1448.	1.3	63
41	The degradation mechanism of sulfonated poly(arylene ether sulfone)s in an oxidative environment. <i>Journal of Membrane Science</i> , 2008, 325, 633-640.	4.1	61
42	High-Surface-Area Three-Dimensional Biofuel Cell Electrode Using Redox-Polymer-Grafted Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 3050-3058.	1.8	59
43	Differentiating Grotthuss Proton Conduction Mechanisms by Nuclear Magnetic Resonance Spectroscopic Analysis of Frozen Samples. <i>Analytical Chemistry</i> , 2014, 86, 9362-9366.	3.2	59
44	Title is missing!. <i>Catalysis Letters</i> , 2003, 86, 273-278.	1.4	58
45	Rapid Proton Conduction through Unfreezable and Bound Water in a Wholly Aromatic Pore-Filling Electrolyte Membrane. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4656-4663.	1.2	56
46	Low fuel crossover anion exchange pore-filling membrane for solid-state alkaline fuel cells. <i>Journal of Membrane Science</i> , 2011, 373, 107-111.	4.1	56
47	Solubility and pervaporation properties of the filling-polymerized membrane prepared by plasma-graft polymerization for pervaporation of organic-liquid mixtures. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 1914-1919.	1.8	55
48	Proton conducting phosphated zirconia-sulfonated polyether sulfone nanohybrid electrolyte for low humidity, wide-temperature PEMFC operation. <i>Electrochemistry Communications</i> , 2006, 8, 133-136.	2.3	55
49	Transport mechanism of deformable droplets in microfiltration of emulsions. <i>Chemical Engineering Science</i> , 2001, 56, 3539-3548.	1.9	53
50	Development of a Regenerable Cell Culture System That Senses and Releases Dead Cells. <i>Langmuir</i> , 2005, 21, 4043-4049.	1.6	53
51	Enhanced activity and durability for the electroreduction of oxygen at a chemically ordered intermetallic PtFeCo catalyst. <i>RSC Advances</i> , 2014, 4, 27510.	1.7	52
52	Olefin separation using silver impregnated ion-exchange membranes and silver salt/polymer blend membranes. <i>Journal of Membrane Science</i> , 1996, 117, 151-161.	4.1	51
53	Development of a Molecular Recognition Separation Membrane Using Cyclodextrin Complexation Controlled by Thermosensitive Polymer Chains. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 380-385.	1.8	51
54	Design of pervaporation membrane for organic-liquid separation based on solubility control by plasma-graft filling polymerization technique. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 848-853.	1.8	50

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55	Application of a Zeolite A Membrane to Reverse Osmosis Process.. Journal of Chemical Engineering of Japan, 2000, 33, 333-336.	0.3	46
56	Solvent diffusion in amorphous glassy polymers. , 2000, 38, 846-856.		46
57	Synthesis of 3D graphite oxide-exfoliated carbon nanotube carbon composite and its application as catalyst support for fuel cells. Journal of Power Sources, 2014, 260, 338-348.	4.0	46
58	Improvement in the solid-state alkaline fuel cell performance through efficient water management strategies. Journal of Power Sources, 2017, 345, 221-226.	4.0	45
59	Pure Water Solid Alkaline Water Electrolyzer Using Fully Aromatic and High-Molecular-Weight Poly(fluorene- <i>i>alt</i> -tetrafluorophenylene)-trimethyl Ammonium Anion Exchange Membranes and Ionomers. ACS Applied Energy Materials, 2021, 4, 1053-1058.	2.5	45
60	Nonlinear Self-Excited Oscillation of a Synthetic Ion-Channel-Inspired Membrane. Angewandte Chemie - International Edition, 2006, 45, 5630-5633.	7.2	42
61	CO ₂ Absorption Studies on Mixed Alkali Orthosilicates Containing Rare-Earth Second-Phase Additives. Journal of Physical Chemistry C, 2015, 119, 5319-5326.	1.5	42
62	Morphologically and compositionally tuned lithium silicate nanorods as high-performance carbon dioxide sorbents. Journal of Materials Chemistry A, 2016, 4, 16928-16935.	5.2	42
63	Optimum preparation conditions of amidoxime hollow fiber synthesized by radiation-induced grafting. Journal of Applied Polymer Science, 1990, 39, 2153-2163.	1.3	40
64	Permeation properties of templated and template-free ZSM-5 membranes. Journal of Membrane Science, 2006, 274, 102-107.	4.1	40
65	Isolation and analysis of a grafted polymer onto a straight cylindrical pore in a thermal-responsive gating membrane and elucidation of its permeation behavior. Journal of Membrane Science, 2010, 352, 22-31.	4.1	40
66	An anion-conductive microporous membrane composed of a rigid ladder polymer with a spirobiindane backbone. Journal of Materials Chemistry A, 2016, 4, 17655-17659.	5.2	40
67	Morphological control of PEMFC electrode by graft polymerization of polymer electrolyte onto platinum-supported carbon black. Journal of Power Sources, 2004, 138, 25-30.	4.0	37
68	Novel Preparation Method for Obtaining pH-Responsive Core-Shell Microcapsule Reactors. Industrial & Engineering Chemistry Research, 2007, 46, 124-130.	1.8	37
69	The effect of particle size and surface area on the ion conductivity of layered double hydroxide. Electrochemistry Communications, 2012, 25, 50-53.	2.3	37
70	Enhanced oxygen reduction reaction by bimetallic CoPt and PdPt nanocrystals. RSC Advances, 2013, 3, 10487.	1.7	37
71	Highly active and durable chemically ordered Pt-Fe-Co intermetallics as cathode catalysts of membrane electrode assemblies in polymer electrolyte fuel cells. Journal of Power Sources, 2014, 271, 346-353.	4.0	37
72	Synthesis and Property of Semicrystalline Anion Exchange Membrane with Well-Defined Ion Channel Structure. Macromolecules, 2015, 48, 2576-2584.	2.2	37

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73	A microscope FTIR mapping study on diffusion of hydrocarbons in single silicalite crystal particles. <i>Microporous and Mesoporous Materials</i> , 2000, 38, 207-220.	2.2	36
74	Hollow-fiber-type pore-filling membranes made by plasma-graft polymerization for the removal of chlorinated organics from water. <i>Journal of Membrane Science</i> , 2001, 194, 217-228.	4.1	36
75	Stability Improvement of Rh/I ³ -Al ₂ O ₃ Catalyst Layer by Ceria Doping for Steam Reforming in an Integrated Catalytic Membrane Reactor System. <i>Catalysis Letters</i> , 2004, 92, 181-187.	1.4	36
76	Membrane Design for Pervaporation or Vapor Permeation Separation Using a Filling-Type Membrane Concept. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 177-184.	1.8	35
77	Reaction control of tetraethyl orthosilicate (TEOS)/O ₃ and tetramethyl orthosilicate (TMOS)/O ₃ counter diffusion chemical vapour deposition for preparation of molecular-sieve membranes. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4465-4469.	1.3	35
78	Thin pore-filling membrane with highly packed-acid structure for high temperature and low humidity operating polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2018, 394, 67-73.	4.0	35
79	Highly conductive mechanically robust high <i>M_w</i> polyfluorene anion exchange membrane for alkaline fuel cell and water electrolysis application. <i>Polymer Chemistry</i> , 2020, 11, 3812-3820.	1.9	35
80	Extremely Active Hydrogen Evolution Catalyst Electrochemically Generated from a Ruthenium-Based Perovskite-Type Precursor. <i>ACS Applied Energy Materials</i> , 2019, 2, 956-960.	2.5	34
81	Metal-organic framework membranes with layered structure prepared within the porous support. <i>RSC Advances</i> , 2013, 3, 14233.	1.7	33
82	Platinum-Iron-Nickel Trimetallic Catalyst with Superlattice Structure for Enhanced Oxygen Reduction Activity and Durability. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11458-11466.	1.8	33
83	Highly durable spirobifluorene-based aromatic anion conducting polymer for a solid ionomer of alkaline fuel cells and water electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2219-2224.	5.2	33
84	Analysis of the degradation mechanism of the polyarylene ether anion-exchange membrane for alkaline fuel cell and water-splitting cell applications. <i>New Journal of Chemistry</i> , 2017, 41, 8036-8044.	1.4	32
85	ZIF-8 membranes prepared at miscible and immiscible liquid-liquid interfaces. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 75-80.	2.2	30
86	In-plane and through-plane non-uniform carbon corrosion of polymer electrolyte fuel cell cathode catalyst layer during extended potential cycles. <i>Journal of Power Sources</i> , 2017, 362, 291-298.	4.0	30
87	Germanium-incorporated lithium silicate composites as highly efficient low-temperature sorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7913-7921.	5.2	30
88	Estimation of Gas Permeability of a Zeolite Membrane, Based on a Molecular Simulation Technique and Permeation Model. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1971-1976.	1.2	29
89	Low methanol crossover and high performance of DMFCs achieved with a pore-filling polymer electrolyte membrane. <i>Journal of Power Sources</i> , 2007, 174, 170-175.	4.0	29
90	Modelling of Reaction and Diffusion Processes in a High-surface-area Biofuel Cell Electrode Made of Redox Polymer-grafted Carbon. <i>Fuel Cells</i> , 2009, 9, 37-43.	1.5	29

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91	Microstructural pore analysis of the catalyst layer in a polymer electrolyte membrane fuel cell: A combination of resin pore-filling and FIB/SEM. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 15663-15671.	3.8	29
92	Binary Pd~Ni Nanoalloy Particles over Carbon Support with Superior Alkaline Formate Fuel Electrooxidation Performance. <i>ChemCatChem</i> , 2019, 11, 4731-4737.	1.8	29
93	Dual-Ion Conducting Lithium Zirconate-Based Membranes for High Temperature CO2 Separation. <i>Journal of Chemical Engineering of Japan</i> , 2005, 38, 322-328.	0.3	29
94	Swelling behavior of the filling-type membrane. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 469-477.	2.4	28
95	Anisotropically Organized LDH on PVDF: A Geometrically Templated Electrospun Substrate for Advanced Anion Conducting Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6397-6401.	4.0	28
96	Electro-oxidation competency of palladium nanocatalysts over ceria~carbon composite supports during alkaline ethylene glycol oxidation. <i>Catalysis Science and Technology</i> , 2019, 9, 493-501.	2.1	28
97	Chlorinated organics removal from water by plasma-graft filling polymerized membranes. <i>AIChE Journal</i> , 1996, 42, 892-895.	1.8	27
98	Water Movement in a Solid-State Alkaline Fuel Cell Affected by the Anion-Exchange Pore-Filling Membrane Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16791-16801.	1.5	27
99	Theoretical Studies on Proton Transfer among a High Density of Acid Groups: Surface of Zirconium Phosphate with Adsorbed Water Molecules. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5599-5606.	1.5	26
100	Mg~Al layered double hydroxides containing glycine betaine as low humidity-dependent anion conducting electrolyte material for Solid State Alkaline Fuel Cell (SAFC). <i>Journal of Power Sources</i> , 2013, 230, 225-229.	4.0	26
101	Correlation between the carbon structures and their tolerance to carbon corrosion as catalyst supports for polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6406-6412.	3.8	26
102	Transport Mechanism of Aromatic Vapor through Silver Salt Carrier/Polymer Blend Membrane and Its Humidity Effect. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1831-1835.	1.2	25
103	Application of dense membrane theory for differential permeation of vegetable oil constituents. <i>Journal of Food Engineering</i> , 2003, 60, 249-256.	2.7	25
104	New morphological control for thick, porous membranes with a plasma graft-filling polymerization. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1216-1224.	2.5	25
105	Regulation of cell adhesion using a signal-responsive membrane substrate. <i>Biotechnology and Bioengineering</i> , 2005, 91, 237-243.	1.7	25
106	Biomolecule-Recognition Gating Membrane Using Biomolecular Cross-Linking and Polymer Phase Transition. <i>Analytical Chemistry</i> , 2011, 83, 9226-9229.	3.2	25
107	A durable anion conducting membrane with packed anion-exchange sites and an aromatic backbone for solid-state alkaline fuel cells. <i>Polymer Chemistry</i> , 2015, 6, 7964-7973.	1.9	25
108	Preparation of Organic/Inorganic Composite Membranes by Plasma-Graft Filling Polymerization Technique for Organic-Liquid Separation. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3284-3290.	1.8	24

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109	Cross-sectional observation of nanostructured catalyst layer of polymer electrolyte fuel cell using FIB/SEM. <i>Journal of Power Sources</i> , 2015, 280, 210-216.	4.0	24
110	Prediction and estimation of solvent diffusivities in polyacrylate and polymethacrylates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 1393-1400.	2.4	23
111	Effect of the pore surface modification of an inorganic substrate on the plasma-grafting behavior of pore-filling-type organic/inorganic composite membranes. <i>Journal of Polymer Science Part A</i> , 2006, 44, 846-856.	2.5	23
112	Design of a vapor permeation membrane for VOC removal by the filling membrane concept. <i>Journal of Membrane Science</i> , 2000, 164, 25-35.	4.1	22
113	Direction and Management of Water Movement in Solid-State Alkaline Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7650-7657.	1.5	22
114	Mg-Al layered double hydroxides: a correlation between synthesis-structure and ionic conductivity. <i>RSC Advances</i> , 2014, 4, 41051-41058.	1.7	22
115	Connected iridium nanoparticle catalysts coated onto silica with high density for oxygen evolution in polymer electrolyte water electrolysis. <i>Nanoscale Advances</i> , 2020, 2, 171-175.	2.2	22
116	Efficient Oxygen Evolution Electrocatalysis on CaFe_2O_4 and Its Reaction Mechanism. <i>ACS Applied Energy Materials</i> , 2021, 4, 3057-3066.	2.5	22
117	Reverse Response of an Ion-Recognition Polyampholyte to Specific Ion Signals at Different pHs. <i>Macromolecules</i> , 2009, 42, 980-986.	2.2	21
118	Control of the poly(N-isopropylacrylamide) phase transition via a single strand-double strand transformation of conjugated DNA. <i>Soft Matter</i> , 2013, 9, 3331.	1.2	21
119	Tuning Palladium Nickel Phosphide toward Efficient Oxygen Evolution Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 879-888.	2.5	21
120	Precise surface modification of porous membranes with well-defined zwitterionic polymer for antifouling applications. <i>Journal of Membrane Science</i> , 2021, 619, 118772.	4.1	21
121	Development of crosslinked plasma-graft filling polymer membranes for the reverse osmosis of organic liquid mixtures. <i>Journal of Membrane Science</i> , 2005, 265, 101-107.	4.1	20
122	Quantitative analysis of oxygen-containing species adsorbed on the Pt surface of a polymer electrolyte fuel cell membrane electrode assembly electrode using stripping voltammetry. <i>Journal of Power Sources</i> , 2008, 185, 217-221.	4.0	20
123	Influence of Spacer Length between Actuator and Sensor on Their Mutual Communications in Poly(N-isopropylacrylamide-co- β -Cyclodextrin), an Autonomous Coordinative Shrinking/Swelling Polymer. <i>Macromolecules</i> , 2012, 45, 9742-9750.	2.2	20
124	Zn ²⁺ substitution effects in layered double hydroxide (Mg _{1-x} Zn _x) ₂ Al: textural properties, water content and ionic conductivity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13348.	5.2	20
125	Thickness Reduction of the Zeolitic Imidazolate Framework-8 Membrane by Controlling the Reaction Rate during the Membrane Preparation. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 770-776.	0.3	20
126	Effect of Temperature on Synthesis of ZIF-8 Membranes for Propylene/propane Separation by Counter Diffusion Method. <i>Journal of the Japan Petroleum Institute</i> , 2015, 58, 237-244.	0.4	20

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127	The Effect of Methanol Crossover on the Cathode Overpotential of DMFCs. <i>Fuel Cells</i> , 2011, 11, 394-403.	1.5	19
128	Melamine formaldehydeâ€“metal organic gel interpenetrating polymer network derived intrinsic Feâ€“N-doped porous graphitic carbon electrocatalysts for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2018, 42, 18690-18701.	1.4	19
129	Catalyst Slurry Preparation Using a Hydrodynamic Cavitation Dispersion Method for Polymer Electrolyte Fuel Cells. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19545-19550.	1.8	19
130	Performance of a Pore-Filling Electrolyte Membrane in Hydrogen-Oxygen PEFC. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A385.	2.2	17
131	Role of vacuum ultraviolet irradiation in plasma-induced graft polymerization in the pore-filling polymerization of porous materials. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2068-2074.	2.5	17
132	Prediction of solvent solubility, diffusivity and permeability in glassy polymeric membranes. <i>Polymer</i> , 2001, 42, 5225-5232.	1.8	16
133	Evaluation of Immobilized Enzyme in a High-Surface-Area Biofuel Cell Electrode Made of Redox-Polymer-Grafted Carbon Black. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 6394-6398.	1.8	16
134	Discrete Self-Assembly and Functionality of Guest Molecules in an Organic Framework. <i>Chemistry of Materials</i> , 2016, 28, 5847-5854.	3.2	16
135	Direct synthesis of a carbon nanotube interpenetrated doped porous carbon alloy as a durable Pt-free electrocatalyst for the oxygen reduction reaction in an alkaline medium. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1524-1532.	2.5	16
136	Highly stable membraneâ€“electrode assembly using ether-linkage-free spirobifluorene-based aromatic polyelectrolytes for direct formate solid alkaline fuel cells. <i>Journal of Power Sources</i> , 2019, 438, 226997.	4.0	16
137	Effect of Metal Coordination Fashion on Oxygen Electrocatalysis of Cobaltâ€“Manganese Oxides. <i>ACS Omega</i> , 2020, 5, 29388-29397.	1.6	16
138	An enhanced electrochemical CO ₂ reduction reaction on the SnO _x â€“PdO surface of SnPd nanoparticles decorated on N-doped carbon fibers. <i>Catalysis Science and Technology</i> , 2021, 11, 143-151.	2.1	16
139	Nanoscale Morphological Control of Anode Electrodes by Grafting of Methylsulfonic Acid Groups onto Platinumâ€“Ruthenium-Supported Carbon Blacks. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1417.	1.3	15
140	Modeling for PEFC MEAs Based on Reaction Rate on Pt Surface and Microstructures of Catalyst Layers. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, 616-631.	0.3	15
141	Refined Structural Analysis of Connected Platinumâ€“Iron Nanoparticle Catalysts with Enhanced Oxygen Reduction Activity. <i>ACS Applied Energy Materials</i> , 2018, 1, 324-330.	2.5	15
142	Template assisted synthesis of Ni,N co-doped porous carbon from Ni incorporated ZIF-8 frameworks for electrocatalytic oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2020, 44, 12343-12354.	1.4	15
143	Non-humidified proton conduction between a Lewis acidâ€“base pair. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13814.	1.3	14
144	Correlating electronic structure and chemical durability of sulfonated poly(arylene ether sulfone)s. <i>Journal of Power Sources</i> , 2015, 279, 48-54.	4.0	14

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145	Quantum chemical approach for highly durable anion exchange groups in solid-state alkaline fuel cells. <i>RSC Advances</i> , 2016, 6, 36269-36272.	1.7	14
146	Analysis of Oxygen Reduction Reaction Activity of Pt/C Catalysts for Actual PEFC MEAs. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, 39-46.	0.3	13
147	Nanostructural Control and Performance Analysis of Carbon-Free Catalyst Layers Using Nanoparticle-Connected Hollow Capsules for PEFCs. <i>Journal of the Electrochemical Society</i> , 2016, 163, F927-F932.	1.3	13
148	Evaluation of performance and durability of platinum-iron-copper with L10 ordered face-centered tetragonal structure as cathode catalysts in polymer electrolyte fuel cells. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 773-782.	1.5	13
149	Control of Target Molecular Recognition in a Small Pore Space with Biomolecule-Recognition Gating Membrane. <i>Small</i> , 2018, 14, e1702267.	5.2	13
150	Novel mild conversion routes of surface-modified nano zirconium oxide precursor to layered proton conductors. <i>Journal of Materials Chemistry</i> , 2010, 20, 6239.	6.7	12
151	Development of an aptamer-functionalized molecular recognition gating membrane targeting a specific protein on the basis of the aggregation phenomena of DNA-PNIPAM. <i>Polymer</i> , 2015, 62, 86-93.	1.8	12
152	Chitosan Intercalated Metal Organic Gel as a Green Precursor of Fe Entrenched and Fe Distributed N-Doped Mesoporous Graphitic Carbon for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2017, 2, 8762-8770.	0.7	12
153	Cut-off of dilute O/W emulsions through a microfiltration membrane. <i>Journal of Membrane Science</i> , 2001, 190, 167-178.	4.1	11
154	Plasma-graft Pore-filling Electrolyte Membranes Using a Porous Poly(tetrafluoroethylene) Substrate. <i>Electrochemistry</i> , 2002, 70, 950-952.	0.6	11
155	Theoretical Studies of the Mechanism of Proton Transfer at the Surface of Zirconium Phosphate. <i>Chemistry Letters</i> , 2010, 39, 736-737.	0.7	11
156	Prediction of Self-Diffusivity in Multicomponent Polymeric Systems Using Shell-Like Free Volume Theory. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11676-11681.	1.8	11
157	Effect of Solution Concentration on Structure and Permeation Properties of ZIF-8 Membranes for Propylene/Propane Separation. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 97-103.	0.3	11
158	Carbon-Free Platinum-Iron Nanonetworks with Chemically Ordered Structures as Durable Oxygen Reduction Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>ACS Applied Nano Materials</i> , 2020, 3, 9912-9923.	2.4	11
159	Prediction of the Solubility of Chloroform in Acrylate Polymer Mixtures with Inclusion of the Hydrogen-bonding Effect. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3143-3149.	1.2	10
160	Development of a novel durable aromatic anion exchange membrane using a thermally convertible precursor. <i>Chemical Communications</i> , 2018, 54, 10820-10823.	2.2	10
161	Micro-structure change of polycrystalline FAU zeolite membranes during a hydrothermal synthesis in a dilute solution. <i>Microporous and Mesoporous Materials</i> , 2018, 272, 53-60.	2.2	10
162	Proton diffusion facilitated by indirect interactions between proton donors through several hydrogen bonds. <i>Chemical Physics Letters</i> , 2019, 731, 136627.	1.2	10

#	ARTICLE	IF	CITATIONS
163	Chemical durability of thin pore-filling membrane in open-circuit voltage hold test. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28996-29001.	3.8	10
164	A New Free Volume Theory Based on Microscopic Concept of Molecular Collisions for Penetrant Self-Diffusivity in Polymers. <i>Journal of Chemical Engineering of Japan</i> , 2009, 42, 86-94.	0.3	10
165	Logistic gate-like permeable property of gating membrane with ion-recognition polyampholyte. <i>Polymer</i> , 2014, 55, 1412-1419.	1.8	9
166	A cobalt-manganese layered oxide/graphene composite as an outstanding oxygen evolution reaction electrocatalyst. <i>Chemical Communications</i> , 2021, 57, 9052-9055.	2.2	9
167	Effect of molecular association on solubility, diffusion, and permeability in polymeric membranes. , 2000, 38, 171-181.		8
168	Molecular Recognition Gating Membranes Made by Plasma-Graft Polymerization. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2005, 18, 229-232.	0.1	8
169	Improvement in Thermal Stability of Anion-exchange Membranes for Fuel Cell Applications by Controlling Water State. <i>Chemistry Letters</i> , 2013, 42, 14-16.	0.7	8
170	Plasma-Induced Graft Polymerization Inside Pores of Porous Substrates Assisted by an Infiltration Agent in Acidic Conditions. <i>Plasma Processes and Polymers</i> , 2014, 11, 306-314.	1.6	8
171	DNA molecular recognition of intercalators affects aggregation of a thermoresponsive polymer. <i>Polymer Chemistry</i> , 2014, 5, 4612-4616.	1.9	8
172	Poly(p-phenylene sulfonic acid-ran-2,5-benzophenone) pore-filling membranes with highly packed acid structure and their polymer electrolyte fuel cell performances. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21461-21469.	3.8	8
173	Response Sensitivity of a Gating Membrane Related to Grafted Polymer Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1575-1581.	1.8	8
174	Communication Acid-Treated Nickel-Rich Platinum-Nickel Alloys for Oxygen Reduction and Methanol Oxidation Reactions in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2017, 164, F858-F860.	1.3	8
175	Morphological Ensembles of N-Doped Porous Carbon Derived from ZIF-8/Fe-Graphene Nanocomposites: Processing and Electrocatalytic Studies. <i>ChemistrySelect</i> , 2018, 3, 8688-8697.	0.7	8
176	Alkaline Formate Oxidation with Colloidal Palladium-Tin Alloy Nanocrystals. <i>ACS Applied Energy Materials</i> , 2022, 5, 266-277.	2.5	8
177	Conversion of a molecular signal into a visual color based on the permeation of nanoparticles through a biomolecule-recognition gating membrane. <i>Analytical Methods</i> , 2012, 4, 2635.	1.3	7
178	Systematic Evaluation of Polymer Electrolyte Fuel Cell Electrodes with Hydrocarbon Polyelectrolytes by Considering the Polymer Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1422-1428.	1.5	7
179	Reducing Physical Adsorption of Enzymes by Surface Modification of Carbon Black for High-Current-Density Biofuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, H3095-H3099.	1.3	7
180	Effect of a Sulfonated Benzothiadiazole Unit on the Morphology and Ion Conduction Behavior of a Polymer Electrolyte Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16095-16102.	1.8	7

#	ARTICLE	IF	CITATIONS
181	Morphological Investigations of Surface Modified Zirconia Precursor by Perfluorosulfonated Ionomer Using Nano Capping Technique. Journal of Chemical Engineering of Japan, 2009, 42, 918-929.	0.3	6
182	Reentrant phase transition behavior and sensitivity enhancement of a molecular recognition ion gating membrane in an aqueous ethanol solution. Journal of Membrane Science, 2010, 348, 369-375.	4.1	6
183	Physical Re-Examination of Parameters on a Molecular Collisions-Based Diffusion Model for Diffusivity Prediction in Polymers. Journal of Physical Chemistry B, 2011, 115, 15181-15187.	1.2	6
184	Introduction of Size-Controlled Nafion/ZrO ₂ Nanocomposite Electrolyte into Primary Pores for High Pt Utilization in PEFCs. Journal of the Electrochemical Society, 2013, 160, F129-F134.	1.3	6
185	Amino acid inspired microscale organization of metallic nanocrystals. Journal of Materials Chemistry A, 2014, 2, 100-106.	5.2	6
186	Proton Conductivity of Organic-Inorganic Electrolyte for Polymer Electrolyte Fuel Cell. Chemistry Letters, 2017, 46, 204-206.	0.7	6
187	Flow-Based Immunosensing Using the Pore Channel of a Porous Membrane As a Reaction Space. Analytical Chemistry, 2019, 91, 14178-14182.	3.2	6
188	Metal oxide electrocatalyst support for carbon-free durable electrodes with excellent corrosion resistance at high potential conditions. Sustainable Energy and Fuels, 2021, 5, 1374-1378.	2.5	6
189	Comprehensive Structural Descriptor for Electrocatalytic Oxygen Evolution Activities of Iron Oxides. ChemElectroChem, 2021, 8, 4466-4471.	1.7	6
190	Development of Enzyme-Encapsulated Microcapsule Reactors with Ion-Responsive Shell Membranes. Journal of Chemical Engineering of Japan, 2007, 40, 590-597.	0.3	5
191	Polymer Electrolyte Fuel Cell Modeling Considering Catalyst Activity and a Microscopic Reaction Phenomenon: Coverage of Oxygen-Containing Species. Journal of Chemical Engineering of Japan, 2009, 42, 771-781.	0.3	5
192	Non-equilibrium Thermodynamic Model of a Highly Permeable Forward Osmosis Membrane. Journal of Chemical Engineering of Japan, 2017, 50, 618-631.	0.3	5
193	Analysis of Pore Size Using a Straight-Pore Molecular Recognition Ion Gating Membrane. Journal of Chemical Engineering of Japan, 2008, 41, 766-770.	0.3	5
194	General Diffusion Model for Polymeric Systems Based on Microscopic Molecular Collisions and Random Walk Movement. Industrial & Engineering Chemistry Research, 2013, 52, 9940-9945.	1.8	4
195	Switchable Aggregation Phenomena of DNA-conjugated Poly(<i>N</i> -isopropylacrylamide) Driven by Transformation between ssDNA and dsDNA with Control of DNA Charges and Flexibility. Chemistry Letters, 2013, 42, 1568-1570.	0.7	4
196	Development of novel polymer electrolyte membranes based on a benzothiadiazole unit. RSC Advances, 2016, 6, 99433-99436.	1.7	4
197	Alkali-resistant Anion Exchange Membranes with Grafted Polyelectrolyte for Fuel Cells. Chemistry Letters, 2018, 47, 857-859.	0.7	4
198	Autonomous Shrinking/Swelling Phenomenon Driven By Macromolecular Interchain Cross-Linking via β -Cyclodextrin-Triazole Complexation. Macromolecules, 2019, 52, 8551-8562.	2.2	4

#	ARTICLE	IF	CITATIONS
199	Fe ³⁺ stabilized 3D cross-linked glycine-melamine formaldehyde networks as precursor for highly efficient oxygen reduction catalyst in alkaline media. <i>Materials Letters</i> , 2020, 264, 127365.	1.3	4
200	Suitable acid groups and density in electrolytes to facilitate proton conduction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23778-23786.	1.3	4
201	Comprehensive simulation to uncover the ideal properties of a hollow fiber forward osmosis membrane module for the seawater desalination process. <i>Desalination</i> , 2022, 538, 115923.	4.0	4
202	Morphology Control of Thermosensitive Membranes and Fundamental Investigation of Its Protein Purification.. <i>Kagaku Kogaku Ronbunshu</i> , 2000, 26, 849-854.	0.1	3
203	Osmotic Pressure Expression with Several Guest Ions on a Molecular Recognition Ion Gating Membrane. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2006, 19, 251-252.	0.1	3
204	Molecular recognition moiety and its target biomolecule interact in switching enzyme activity. <i>Journal of Bioscience and Bioengineering</i> , 2013, 115, 639-644.	1.1	3
205	Mathematical modeling of molecular recognition by an ion-gating membrane oscillator. <i>Journal of Membrane Science</i> , 2013, 448, 231-239.	4.1	3
206	Effect of length of molecular recognition moiety on enzymatic activity switching. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 433-437.	1.1	3
207	Molecular Sensing: Control of Target Molecular Recognition in a Small Pore Space with Biomolecule-Recognition Gating Membrane (Small 18/2018). <i>Small</i> , 2018, 14, 1870082.	5.2	3
208	Development and Modification of a PEMFC Electrode by Using a Hydrocarbon Ionomer for High Utilization of Catalyst. <i>Journal of Chemical Engineering of Japan</i> , 2007, 40, 773-779.	0.3	3
209	Crystal Structures of Iron-Based Oxides and Their Catalytic Efficiencies for the Oxygen Evolution Reaction: A Trend in Alkaline Media. <i>ChemElectroChem</i> , 2022, 9, .	1.7	3
210	Separation and Recovery of Volatile Organic Compounds (VOCs) by Membranes. <i>Membrane</i> , 2006, 31, 30-31.0.0	0.0	2
211	Development of Molecular Recognition Membrane showing Autonomous Adsorption-Desorption Phenomenon. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2009, 22, 473-476.	0.1	2
212	Fabrication of Protein Renaturation Facilitating Membrane Using Plasma Graft Pore Filling Technique. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010, 23, 571-573.	0.1	2
213	Novel aromatic proton exchange membranes based on thiazolothiazole units. <i>Polymer Journal</i> , 2017, 49, 745-749.	1.3	2
214	Retention of activity and secondary structure of hyperthermophilic laccase adsorbed on carbon black. <i>JPhys Energy</i> , 2021, 3, 034002.	2.3	2
215	Numerical Modeling for Sensitive and Rapid Molecular Detection by Membrane-Based Immunosensors. <i>Analytical Chemistry</i> , 2021, 93, 7210-7219.	3.2	2
216	Development of Pore-Filling Type Polymer Electrolyte Membrane Made by Plasma Graft Polymerization with PTFE Substrate.. <i>Kagaku Kogaku Ronbunshu</i> , 2003, 29, 159-164.	0.1	2

#	ARTICLE	IF	CITATIONS
217	Crystal Structures of Iron-Based Oxides and Their Catalytic Efficiencies for the Oxygen Evolution Reaction: A Trend in Alkaline Media. ChemElectroChem, 0, , .	1.7	2
218	Systematic Material Design for Bio-system Inspired Molecular Recognition Membranes. Membrane, 2005, 30, 124-131.	0.0	1
219	Systematic Design of Polymer Electrolyte Membranes for Fuel Cells Using a Pore-Filling Membrane Concept. , 2008, , 1-15.		1
220	Grafting of Polyelectrolyte on Porous Substrate by Plasma-induced Polymerization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 471-473.	0.1	1
221	Fabrication of Precursor Membrane with Reactive Groups via Plasma-Induced Graft Polymerization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2012, 25, 555-557.	0.1	1
222	Fabrication of Functional Membrane with Activated Ester via Plasma-Induced Graft Polymerization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 503-506.	0.1	1
223	Layered Double Hydroxide as a Potential Electrolyte Material in Solid-State Alkaline Fuel Cell Catalyst Layer. ECS Electrochemistry Letters, 2015, 4, F47-F49.	1.9	1
224	Development of Polymer Electrolyte Membranes for Solid Alkaline Fuel Cells. Nanostructure Science and Technology, 2019, , 309-350.	0.1	1
225	Development of Redox Polymer Grafted onto Carbon Black Using 2,2,2-trifluoroethylazobis(3-ethylbenzothiazoline-6-sulfonic Acid) as a Biocathode. Journal of Chemical Engineering of Japan, 2014, 47, 704-710.	0.3	1
226	Nanoscale Morphological Control of PEFC Cathode Electrodes by Introducing Proton Conducting Groups onto Platinum-supported Carbon Black. IEJ Transactions on Fundamentals and Materials, 2008, 128, 559-562.	0.2	1
227	Electrochemical Synthesis of Poly(2,2,2-trifluoroethylazobis(3-ethylbenzothiazoline-6-sulfonic Acid)) on Carbon Black. Electrochemistry, 2002, 70, 644-648.	0.6	1
228	Highly-Durable Membrane Electrode Assembly for Direct Formate Solid Alkaline Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	1
229	Carbon-Free Connected Platinum-Iron Catalysts with Enhanced Chemically Ordered Structures as Durable Oxygen Reduction Electrocatalysts for PEFCs. ECS Meeting Abstracts, 2020, MA2020-02, 2316-2316.	0.0	1
230	Layered Pt-Co alloys: Bulk, surface and nanoparticle analysis, based on DFT. Surface Science, 2022, 721, 122082.	0.8	1
231	Issues of using inorganic proton conductor in the electrodes of polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2022, 47, 15056-15064.	3.8	1
232	Structural Characterization of Porous Glass Membrane by Pore Model.. Kagaku Kogaku Ronbunshu, 2000, 26, 675-682.	0.1	0
233	Functionalization of a Cylindrical Pore Membrane by Plasma Graft Polymerization. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 239-240.	0.1	0
234	Functionalization of Porous Membranes by Using Cold Plasma. Membrane, 2008, 33, 46-53.	0.0	0

#	ARTICLE	IF	CITATIONS
235	Effect of Platinum Particle Size on Catalyst Activity in Practical Gas-Phase PEFC MEAs. , 2010, , .		0
236	Enhanced electroreduction of oxygen and stripping voltammetry on PdPt nanoparticles. AIP Conference Proceedings, 2015, , .	0.3	0
237	Correlation between Activity and Molecular Structure around the Active Center of Cytochrome P450cam Conjugates. Journal of Chemical Engineering of Japan, 2016, 49, 475-480.	0.3	0
238	High-Voltage Operation of Polymer Electrolyte Fuel Cells under Low Humidity Condition with Pt-Co Catalyst. Journal of Chemical Engineering of Japan, 2010, 43, 623-626.	0.3	0
239	Design of Gas Barrier Membrane / Vapor Permeation Membrane - Approach from Diffusivity Prediction Model in Polymer Matrices -. Membrane, 2011, 36, 71-78.	0.0	0
240	Functionalized Membranes Inspired from Bio-“systems : Hierarchical Structure and Functionalization of Membrane Materials. Membrane, 2016, 41, 240-243.	0.0	0
241	Thin Pore-Filling Electrolyte Membranes with Low EW Perfluorosulfonic Acid Ionomer and Their PEFC Performances. ECS Meeting Abstracts, 2017, , .	0.0	0
242	Structural Control of Carbon-Free Catalyst Layer Using Connected Platinum-Iron Nanoparticle Catalyst for Improved Mass-Transport in Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2017, , .	0.0	0
243	Miniature Fuel Cell with Monolithically Fabricated Si Electrodes - Application of a Polymer Electrolyte Membrane with Adapted Shape. ECS Meeting Abstracts, 2018, , .	0.0	0
244	Development of Highly Conductive and Highly Durable All-Aromatic Anion Exchange Membranes By Using Thermally Convertible Precursor Polymer. ECS Meeting Abstracts, 2018, , .	0.0	0
245	Carbon-Free Connected Ru, Ir Based Nanoparticle Catalysts for Polymer-Electrolyte Water Electrolysis. ECS Meeting Abstracts, 2018, , .	0.0	0
246	Development of Highly Durable Anion Conductive Membrane with All-Aromatic Backbone for Alkaline Fuel Cell Application. ECS Meeting Abstracts, 2019, , .	0.0	0
247	Anion Exchange Membrane with Thermally Convertible Unit for Alkaline Water Electrolyzer. ECS Meeting Abstracts, 2019, , .	0.0	0
248	Influence of Elemental Compositions and Crystalline Structures on Electrocatalytic Activity of Fe-Based Oxides for Oxygen Evolution Reaction in Alkaline Water Splitting. ECS Meeting Abstracts, 2019, , .	0.0	0
249	Necessity of Hydrogen Society Using Renewable Energies and Electrocatalyst Technologies for Fuel Cells. Journal of the Society of Powder Technology, Japan, 2019, 56, 100-108.	0.0	0
250	Systematic Material Design of Pore-filling Membranes and Their Development. Seikei-Kakou, 2019, 31, 442-446.	0.0	0
251	Membrane-“Based Biosensor with Efficient Molecular Recognition in Small Pores. Membrane, 2020, 45, 308-314.	0.0	0
252	Ultrahigh Electrocatalytic Activity of an Iron-Based Bimetallic Oxide for Oxygen Evolution Reaction in Alkaline. ECS Meeting Abstracts, 2020, MA2020-02, 2419-2419.	0.0	0

#	ARTICLE	IF	CITATIONS
253	Voltammetrically Deposited NiFe on Modified Ni Foam As an Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction. ECS Meeting Abstracts, 2020, MA2020-02, 1396-1396.	0.0	0
254	Strategy for Improving Oxygen Evolution Performance of Noble Metal Catalysts for Alkaline Water Electrolysis. ECS Meeting Abstracts, 2020, MA2020-02, 2436-2436.	0.0	0
255	Carbon-Free Connected Ir-Ru Nanoparticle Catalysts for Polymer-Electrolyte Water Electrolysis. ECS Meeting Abstracts, 2020, MA2020-02, 2474-2474.	0.0	0
256	Numerical Modeling and Experiment of a Thin-Film Enzyme Electrode with an Enzyme Adsorption Experiment to Design High-Current-Density Biofuel Cells. Industrial & Engineering Chemistry Research, 2022, 61, 4504-4513.	1.8	0