

# Takeo Yamaguchi

## List of Publications by Year in descending order

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256  
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36303

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docs citations

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#	ARTICLE	IF	CITATIONS
1	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, .	3.4	3
2	Numerical Modeling and Experiment of a Thin-Film Enzyme Electrode with an Enzyme Adsorption Experiment to Design High-Current-Density Biofuel Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 4504-4513.	3.7	0
3	Layered Pt-Co alloys: Bulk, surface and nanoparticle analysis, based on DFT. <i>Surface Science</i> , 2022, 721, 122082.	1.9	1
4	Alkaline Formate Oxidation with Colloidal Palladium-Tin Alloy Nanocrystals. <i>ACS Applied Energy Materials</i> , 2022, 5, 266-277.	5.1	8
5	Issues of using inorganic proton conductor in the electrodes of polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15056-15064.	7.1	1
6	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.	8.2	4
7	Precise surface modification of porous membranes with well-defined zwitterionic polymer for antifouling applications. <i>Journal of Membrane Science</i> , 2021, 619, 118772.	8.2	21
8	Pure Water Solid Alkaline Water Electrolyzer Using Fully Aromatic and High-Molecular-Weight Poly(fluorene- <i>i&gt;alt</i> <i>/i&gt;-tetrafluorophenylene)-trimethyl Ammonium Anion Exchange Membranes and Ionomers. <i>ACS Applied Energy Materials</i>, 2021, 4, 1053-1058.</i>	5.1	45
9	Metal oxide electrocatalyst support for carbon-free durable electrodes with excellent corrosion resistance at high potential conditions. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1374-1378.	4.9	6
10	An enhanced electrochemical CO <sub>2</sub> reduction reaction on the SnO <sub>x</sub> -PdO surface of SnPd nanoparticles decorated on N-doped carbon fibers. <i>Catalysis Science and Technology</i> , 2021, 11, 143-151.	4.1	16
11	A cobalt-manganese layered oxide/graphene composite as an outstanding oxygen evolution reaction electrocatalyst. <i>Chemical Communications</i> , 2021, 57, 9052-9055.	4.1	9
12	Suitable acid groups and density in electrolytes to facilitate proton conduction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23778-23786.	2.8	4
13	Efficient Oxygen Evolution Electrocatalysis on CaFe <sub>2</sub> O <sub>4</sub> and Its Reaction Mechanism. <i>ACS Applied Energy Materials</i> , 2021, 4, 3057-3066.	5.1	22
14	Retention of activity and secondary structure of hyperthermophilic laccase adsorbed on carbon black. <i>JPhys Energy</i> , 2021, 3, 034002.	5.3	2
15	Numerical Modeling for Sensitive and Rapid Molecular Detection by Membrane-Based Immunosensors. <i>Analytical Chemistry</i> , 2021, 93, 7210-7219.	6.5	2
16	Comprehensive Structural Descriptor for Electrocatalytic Oxygen Evolution Activities of Iron Oxides. <i>ChemElectroChem</i> , 2021, 8, 4466-4471.	3.4	6
17	Tuning Palladium Nickel Phosphide toward Efficient Oxygen Evolution Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 879-888.	5.1	21
18	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.	4.6	22

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19	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.	5.0	11
20	Effect of Metal Coordination Fashion on Oxygen Electrocatalysis of Cobalt-Manganese Oxides. <i>ACS Omega</i> , 2020, 5, 29388-29397.	3.5	16
21	Highly conductive mechanically robust high $M_w$ polyfluorene anion exchange membrane for alkaline fuel cell and water electrolysis application. <i>Polymer Chemistry</i> , 2020, 11, 3812-3820.	3.9	35
22	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.	2.8	15
23	Fe <sup>3+</sup> 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.	2.6	4
24	Membrane-Based Biosensor with Efficient Molecular Recognition in Small Pores. <i>Membrane</i> , 2020, 45, 308-314.	0.0	0
25	Ultrahigh Electrocatalytic Activity of an Iron-Based Bimetallic Oxide for Oxygen Evolution Reaction in Alkaline. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2419-2419.	0.0	0
26	Voltammetrically Deposited NiFe on Modified Ni Foam As an Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1396-1396.	0.0	0
27	Carbon-Free Connected Platinum-Iron Catalysts with Enhanced Chemically Ordered Structures As Durable Oxygen Reduction Electrocatalysts for PEFCs. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2316-2316.	0.0	1
28	Strategy for Improving Oxygen Evolution Performance of Noble Metal Catalysts for Alkaline Water Electrolysis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2436-2436.	0.0	0
29	Carbon-Free Connected Ir-Ru Nanoparticle Catalysts for Polymer-Electrolyte Water Electrolysis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2474-2474.	0.0	0
30	Binary Pd-Ni Nanoalloy Particles over Carbon Support with Superior Alkaline Formate Fuel Electrooxidation Performance. <i>ChemCatChem</i> , 2019, 11, 4731-4737.	3.7	29
31	Proton diffusion facilitated by indirect interactions between proton donors through several hydrogen bonds. <i>Chemical Physics Letters</i> , 2019, 731, 136627.	2.6	10
32	Catalyst Slurry Preparation Using a Hydrodynamic Cavitation Dispersion Method for Polymer Electrolyte Fuel Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 19545-19550.	3.7	19
33	Flow-Based Immunosensing Using the Pore Channel of a Porous Membrane As a Reaction Space. <i>Analytical Chemistry</i> , 2019, 91, 14178-14182.	6.5	6
34	Autonomous Shrinking/Swelling Phenomenon Driven By Macromolecular Interchain Cross-Linking via $\beta$ -Cyclodextrin-Triazole Complexation. <i>Macromolecules</i> , 2019, 52, 8551-8562.	4.8	4
35	Highly stable membrane-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.	7.8	16
36	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.	4.1	28

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37	Extremely Active Hydrogen Evolution Catalyst Electrochemically Generated from a Ruthenium-Based Perovskite-Type Precursor. <i>ACS Applied Energy Materials</i> , 2019, 2, 956-960.	5.1	34
38	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.	10.3	33
39	Chemical durability of thin pore-filling membrane in open-circuit voltage hold test. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28996-29001.	7.1	10
40	Development of Polymer Electrolyte Membranes for Solid Alkaline Fuel Cells. <i>Nanostructure Science and Technology</i> , 2019, , 309-350.	0.1	1
41	Development of Highly Durable Anion Conductive Membrane with All-Aromatic Backbone for Alkaline Fuel Cell Application. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
42	Anion Exchange Membrane with Thermally Convertible Unit for Alkaline Water Electrolyzer. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
43	Influence of Elemental Compositions and Crystalline Structures on Electrocatalytic Activity of Fe-Based Oxides for Oxygen Evolution Reaction in Alkaline Water Splitting. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
44	Necessity of Hydrogen Society Using Renewable Energies and Electrocatalyst Technologies for Fuel Cells. <i>Journal of the Society of Powder Technology, Japan</i> , 2019, 56, 100-108.	0.1	0
45	Systematic Material Design of Pore-filling Membranes and Their Development. <i>Seikei-Kakou</i> , 2019, 31, 442-446.	0.0	0
46	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.	2.9	13
47	Germanium-incorporated lithium silicate composites as highly efficient low-temperature sorbents for CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7913-7921.	10.3	30
48	Refined Structural Analysis of Connected Platinum-Iron Nanoparticle Catalysts with Enhanced Oxygen Reduction Activity. <i>ACS Applied Energy Materials</i> , 2018, 1, 324-330.	5.1	15
49	Control of Target Molecular Recognition in a Small Pore Space with Biomolecule-Recognition Gating Membrane. <i>Small</i> , 2018, 14, e1702267.	10.0	13
50	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.	7.1	26
51	Melamine formaldehyde-metal organic gel interpenetrating polymer network derived intrinsic Fe-N-doped porous graphitic carbon electrocatalysts for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2018, 42, 18690-18701.	2.8	19
52	Effect of a Sulfonated Benzothiadiazole Unit on the Morphology and Ion Conduction Behavior of a Polymer Electrolyte Membrane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 16095-16102.	3.7	7
53	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.	7.8	35
54	Alkali-resistant Anion Exchange Membranes with Grafted Polyelectrolyte for Fuel Cells. <i>Chemistry Letters</i> , 2018, 47, 857-859.	1.3	4

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55	Development of a novel durable aromatic anion exchange membrane using a thermally convertible precursor. <i>Chemical Communications</i> , 2018, 54, 10820-10823.	4.1	10
56	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.	5.1	67
57	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.	10.0	3
58	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.	1.5	8
59	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.	4.4	10
60	Miniature Fuel Cell with Monolithically Fabricated Si Electrodes - Application of a Polymer Electrolyte Membrane with Adapted Shape. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
61	Development of Highly Conductive and Highly Durable All-Aromatic Anion Exchange Membranes By Using Thermally Convertible Precursor Polymer. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
62	Carbon-Free Connected Ru, Ir Based Nanoparticle Catalysts for Polymer-Electrolyte Water Electrolysis. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
63	Highly-Durable Membrane Electrode Assembly for Direct Formate Solid Alkaline Fuel Cells. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	1
64	Proton Conductivity of Organic-Inorganic Electrolyte for Polymer Electrolyte Fuel Cell. <i>Chemistry Letters</i> , 2017, 46, 204-206.	1.3	6
65	Improvement in the solid-state alkaline fuel cell performance through efficient water management strategies. <i>Journal of Power Sources</i> , 2017, 345, 221-226.	7.8	45
66	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.	4.9	16
67	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.	2.9	8
68	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.	1.5	12
69	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.	2.8	32
70	Novel aromatic proton exchange membranes based on thiazolothiazole units. <i>Polymer Journal</i> , 2017, 49, 745-749.	2.7	2
71	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.	7.8	30
72	Non-equilibrium Thermodynamic Model of a Highly Permeable Forward Osmosis Membrane. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 618-631.	0.6	5

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73	Thin Pore-Filling Electrolyte Membranes with Low EW Perfluorosulfonic Acid Ionomer and Their PEFC Performances. ECS Meeting Abstracts, 2017, , .	0.0	0
74	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
75	Correlation between Activity and Molecular Structure around the Active Center of Cytochrome P450cam Conjugates. Journal of Chemical Engineering of Japan, 2016, 49, 475-480.	0.6	0
76	Effect of Solution Concentration on Structure and Permeation Properties of ZIF-8 Membranes for Propylene/Propane Separation. Journal of Chemical Engineering of Japan, 2016, 49, 97-103.	0.6	11
77	Ether cleavage-triggered degradation of benzyl alkylammonium cations for polyethersulfone anion exchange membranes. Physical Chemistry Chemical Physics, 2016, 18, 12009-12023.	2.8	98
78	Quantum chemical approach for highly durable anion exchange groups in solid-state alkaline fuel cells. RSC Advances, 2016, 6, 36269-36272.	3.6	14
79	Morphologically and compositionally tuned lithium silicate nanorods as high-performance carbon dioxide sorbents. Journal of Materials Chemistry A, 2016, 4, 16928-16935.	10.3	42
80	Graphene Oxide Sheathed ZIF-8 Microcrystals: Engineered Precursors of Nitrogen-Doped Porous Carbon for Efficient Oxygen Reduction Reaction (ORR) Electrocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 29373-29382.	8.0	139
81	Poly(p-phenylene sulfonic acid-ran-2,5-benzophenone) pore-filling membranes with highly packed acid structure and their polymer electrolyte fuel cell performances. International Journal of Hydrogen Energy, 2016, 41, 21461-21469.	7.1	8
82	Discrete Self-Assembly and Functionality of Guest Molecules in an Organic Framework. Chemistry of Materials, 2016, 28, 5847-5854.	6.7	16
83	Platinum-iron-nickel Trimetallic Catalyst with Superlattice Structure for Enhanced Oxygen Reduction Activity and Durability. Industrial & Engineering Chemistry Research, 2016, 55, 11458-11466.	3.7	33
84	An anion-conductive microporous membrane composed of a rigid ladder polymer with a spirobiindane backbone. Journal of Materials Chemistry A, 2016, 4, 17655-17659.	10.3	40
85	Development of novel polymer electrolyte membranes based on a benzothiadiazole unit. RSC Advances, 2016, 6, 99433-99436.	3.6	4
86	Nanostructural Control and Performance Analysis of Carbon-Free Catalyst Layers Using Nanoparticle-Connected Hollow Capsules for PEFCs. Journal of the Electrochemical Society, 2016, 163, F927-F932.	2.9	13
87	Response Sensitivity of a Gating Membrane Related to Grafted Polymer Characteristics. Industrial & Engineering Chemistry Research, 2016, 55, 1575-1581.	3.7	8
88	Functionalized Membranes Inspired from Bio-systems : Hierarchical Structure and Functionalization of Membrane Materials. Membrane, 2016, 41, 240-243.	0.0	0
89	Enhanced electroreduction of oxygen and stripping voltammetry on PdPt nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	0
90	Effect of Temperature on Synthesis of ZIF-8 Membranes for Propylene/propane Separation by Counter Diffusion Method. Journal of the Japan Petroleum Institute, 2015, 58, 237-244.	0.6	20

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91	Development of an aptamer-functionalized molecular recognition gating membrane targeting a specific protein on the basis of the aggregation phenomena of DNA- $\alpha$ -PNIPAM. <i>Polymer</i> , 2015, 62, 86-93.	3.8	12
92	Layered Double Hydroxide as a Potential Electrolyte Material in Solid-State Alkaline Fuel Cell Catalyst Layer. <i>ECS Electrochemistry Letters</i> , 2015, 4, F47-F49.	1.9	1
93	ZIF-8 membranes prepared at miscible and immiscible liquid-liquid interfaces. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 75-80.	4.4	30
94	Correlating electronic structure and chemical durability of sulfonated poly(arylene ether sulfone)s. <i>Journal of Power Sources</i> , 2015, 279, 48-54.	7.8	14
95	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.	7.8	24
96	Beneficial Role of Copper in the Enhancement of Durability of Ordered Intermetallic PtFeCu Catalyst for Electrocatalytic Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16311-16321.	8.0	66
97	Anisotropically Organized LDH on PVDF: A Geometrically Templated Electrospun Substrate for Advanced Anion Conducting Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6397-6401.	8.0	28
98	Synthesis and Property of Semicrystalline Anion Exchange Membrane with Well-Defined Ion Channel Structure. <i>Macromolecules</i> , 2015, 48, 2576-2584.	4.8	37
99	CO <sub>2</sub> Absorption Studies on Mixed Alkali Orthosilicates Containing Rare-Earth Second-Phase Additives. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5319-5326.	3.1	42
100	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.	3.9	25
101	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.	30.8	67
102	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.	7.1	29
103	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.	0.6	20
104	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.	3.0	8
105	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.	2.9	7
106	The proton conduction mechanism in a material consisting of packed acids. <i>Chemical Science</i> , 2014, 5, 4878-4887.	7.4	72
107	Diffusive separation of propylene/propane with ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2014, 450, 215-223.	8.2	172
108	Logistic gate-like permeable property of gating membrane with ion-recognition polyampholyte. <i>Polymer</i> , 2014, 55, 1412-1419.	3.8	9

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109	Synthesis of 3D graphite oxide-exfoliated carbon nanotube carbon composite and its application as catalyst support for fuel cells. <i>Journal of Power Sources</i> , 2014, 260, 338-348.	7.8	46
110	Amino acid inspired microscale organization of metallic nanocrystals. <i>Journal of Materials Chemistry A</i> , 2014, 2, 100-106.	10.3	6
111	DNA molecular recognition of intercalators affects aggregation of a thermoresponsive polymer. <i>Polymer Chemistry</i> , 2014, 5, 4612-4616.	3.9	8
112	Enhanced activity and durability for the electroreduction of oxygen at a chemically ordered intermetallic PtFeCo catalyst. <i>RSC Advances</i> , 2014, 4, 27510.	3.6	52
113	Enhanced CO <sub>2</sub> absorption kinetics in lithium silicate platelets synthesized by a sol-gel approach. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12792.	10.3	87
114	Highly active and durable chemically ordered Pt-Fe-Co intermetallics as cathode catalysts of membrane electrode assemblies in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2014, 271, 346-353.	7.8	37
115	Mg-Al layered double hydroxides: a correlation between synthesis-structure and ionic conductivity. <i>RSC Advances</i> , 2014, 4, 41051-41058.	3.6	22
116	Differentiating Grotthuss Proton Conduction Mechanisms by Nuclear Magnetic Resonance Spectroscopic Analysis of Frozen Samples. <i>Analytical Chemistry</i> , 2014, 86, 9362-9366.	6.5	59
117	Development of Redox Polymer Grafted onto Carbon Black Using 2,2'-Azinobis(3-ethylbenzothiazoline-6-sulfonic Acid) as a Biocathode. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 704-710.	0.6	1
118	Molecular recognition moiety and its target biomolecule interact in switching enzyme activity. <i>Journal of Bioscience and Bioengineering</i> , 2013, 115, 639-644.	2.2	3
119	Mathematical modeling of molecular recognition by an ion-gating membrane oscillator. <i>Journal of Membrane Science</i> , 2013, 448, 231-239.	8.2	3
120	Zn <sup>2+</sup> substitution effects in layered double hydroxide (Mg <sub>(1-x)</sub> Zn <sub>x</sub> ) <sub>2</sub> Al: textural properties, water content and ionic conductivity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13348.	10.3	20
121	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.	2.7	21
122	Metal-organic framework membranes with layered structure prepared within the porous support. <i>RSC Advances</i> , 2013, 3, 14233.	3.6	33
123	Non-humidified proton conduction between a Lewis acid-base pair. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13814.	2.8	14
124	Effect of length of molecular recognition moiety on enzymatic activity switching. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 433-437.	2.2	3
125	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.	7.8	26
126	Enhanced oxygen reduction reaction by bimetallic CoPt and PdPt nanocrystals. <i>RSC Advances</i> , 2013, 3, 10487.	3.6	37

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127	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.	3.1	27
128	Introduction of Size-Controlled Nafion/ZrO <sub>2</sub> Nanocomposite Electrolyte into Primary Pores for High Pt Utilization in PEFCs. <i>Journal of the Electrochemical Society</i> , 2013, 160, F129-F134.	2.9	6
129	General Diffusion Model for Polymeric Systems Based on Microscopic Molecular Collisions and Random Walk Movement. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9940-9945.	3.7	4
130	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. <i>Chemistry Letters</i> , 2013, 42, 1568-1570.	1.3	4
131	Improvement in Thermal Stability of Anion-exchange Membranes for Fuel Cell Applications by Controlling Water State. <i>Chemistry Letters</i> , 2013, 42, 14-16.	1.3	8
132	Fabrication of Functional Membrane with Activated Ester via Plasma-Induced Graft Polymerization. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 503-506.	0.3	1
133	Fabrication of Precursor Membrane with Reactive Groups via Plasma-Induced Graft Polymerization. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012, 25, 555-557.	0.3	1
134	The effect of particle size and surface area on the ion conductivity of layered double hydroxide. <i>Electrochemistry Communications</i> , 2012, 25, 50-53.	4.7	37
135	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.	2.7	7
136	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.	3.1	7
137	Direction and Management of Water Movement in Solid-State Alkaline Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7650-7657.	3.1	22
138	Influence of Spacer Length between Actuator and Sensor on Their Mutual Communications in Poly( <i>N</i> -isopropylacrylamide- <i>co</i> - $\beta$ -Cyclodextrin), an Autonomous Coordinative Shrinking/Swelling Polymer. <i>Macromolecules</i> , 2012, 45, 9742-9750.	4.8	20
139	Highly Active Bimetallic PdPt and CoPt Nanocrystals for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7464-7470.	3.1	76
140	Biomolecule-Recognition Gating Membrane Using Biomolecular Cross-Linking and Polymer Phase Transition. <i>Analytical Chemistry</i> , 2011, 83, 9226-9229.	6.5	25
141	Physical Re-Examination of Parameters on a Molecular Collisions-Based Diffusion Model for Diffusivity Prediction in Polymers. <i>Journal of Physical Chemistry B</i> , 2011, 115, 15181-15187.	2.6	6
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