

Hiroyuki Uchida

List of Publications by Year in descending order

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15466

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9320
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#	ARTICLE	IF	CITATIONS
1	Addressing planar solid oxide cell degradation mechanisms: A critical review of selected components. <i>Electrochemical Science Advances</i> , 2022, 2, e2100024.	1.2	10
2	Particle-Size Effect of Pt Anode Catalysts on H ₂ O ₂ Production Rate and H ₂ Oxidation Activity at 20 to 80 Å°C. <i>Journal of the Electrochemical Society</i> , 2022, 169, 014516.	1.3	4
3	Depth-direction analysis of nickel depletion in a Ni ²⁺ gadolinia-doped ceria hydrogen electrode after steam electrolysis operation. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 111-117.	0.5	4
4	Unparalleled mitigation of membrane degradation in fuel cells <i>via</i> a counter-intuitive approach: suppression of H ₂ O ₂ production at the hydrogen anode using a Pt _{skin} -PtCo catalyst. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1091-1094.	5.2	19
5	Remarkably Improved Durability of Ni ²⁺ Co Dispersed Samaria-Doped Ceria Hydrogen Electrodes by Reversible Cycling Operation of Solid Oxide Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134516.	1.3	8
6	Effect of core-alloy composition and particle size of stabilized Pt Skin/PtCo alloy nanocatalysts on the CO-Tolerant hydrogen oxidation electrocatalysis. <i>Electrochimica Acta</i> , 2019, 328, 135056.	2.6	12
7	Further Improvement of Performances and Durability of Oxygen and Hydrogen Electrodes for Reversible Solid Oxide Cells. <i>ECS Transactions</i> , 2019, 91, 2379-2386.	0.3	3
8	Effect of Electronic Conductivities of Iridium Oxide/Doped SnO ₂ Oxygen-Evolving Catalysts on the Polarization Properties in Proton Exchange Membrane Water Electrolysis. <i>Catalysts</i> , 2019, 9, 74.	1.6	41
9	High hydrogen evolution activity and suppressed H ₂ O ₂ production on Pt-skin/PtFe alloy nanocatalysts for proton exchange membrane water electrolysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2861-2865.	1.3	11
10	Electro-Oxidation of CO Saturated in 0.1 M HClO ₄ on Basal and Stepped Pt Single-Crystal Electrodes at Room Temperature Accompanied by Surface Reconstruction. <i>Surfaces</i> , 2019, 2, 315-325.	1.0	6
11	Further improvement in performances of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ ^δ -doped ceria composite oxygen electrodes with infiltrated doped ceria nanoparticles for reversible solid oxide cells. <i>Journal of Power Sources</i> , 2019, 427, 293-298.	4.0	31
12	Potential Cycle-Induced Change in the Crystal Structure of a Pt-Skin/PtCo Alloy Nanostructured Electrocatalyst for Fuel Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 7473-7477.	2.4	7
13	Effect of Underlying Cobalt Content on Oxygen Reduction Reaction Activity at Pt-Skin/Pt _{100-x} Co _x (111) Single Crystal Electrodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
14	Modeling the Effect of Underlying Cobalt on the Electrochemical Behavior of Pt-Skin / Pt _{100-x} Co _x (111) Single Crystal Electrodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
15	(Invited) Highly Active and Robust Pt-Skin/Pt Alloy Two-Way Catalysts for Oxygen Reduction and Hydrogen Oxidation in PEFCs. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
16	The Role of Theory in the Development of Electrocatalysts: Case Study on Pt-Skin/Pt Alloy Nanoparticles for Hydrogen Oxidation and Evolution. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
17	Suppression of H ₂ O ₂ Formation at Pt-Skin/Pt Alloy Hydrogen Anode Catalysts for Mitigation of Membrane Degradation. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
18	Atomically Flat Pt Skin and Striking Enrichment of Co in Underlying Alloy at Pt ₃ Co(111) Single Crystal with Unprecedented Activity for the Oxygen Reduction Reaction. <i>ACS Omega</i> , 2018, 3, 154-158.	1.6	30

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19	Effects of Sulfate on the Oxygen Reduction Reaction Activity on Stabilized Pt Skin/PtCo Alloy Catalysts from 30 to 80 Å°C. Langmuir, 2018, 34, 13558-13564.	1.6	16
20	(Invited) Recent Progress in the Understanding of the Electrocatalysis of the CO-Tolerant Hydrogen Oxidation Reaction in Polymer Electrolyte Fuel Cells. ECS Transactions, 2018, 85, 41-46.	0.3	7
21	Highly Active Pt-M (M=Co, Fe) Alloy Catalysts for the Hydrogen Evolution Reaction in Polymer Electrolyte Water Electrolysis. ECS Meeting Abstracts, 2018, , .	0.0	1
22	(Invited) Recent Progress in the Understanding of the Electrocatalysis of the CO-Tolerant Hydrogen Oxidation Reaction in Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
23	(Invited) Highly Active and Durable Pt-Based Catalysts for the Oxygen Reduction Reaction in PEFCs. ECS Meeting Abstracts, 2018, , .	0.0	0
24	(Invited) In Situ Structural Analysis of PtCo Alloy Catalysts with Stabilized Platinum-Skin Layers and Durability/Activity Towards Oxygen Reduction Reaction. ECS Meeting Abstracts, 2018, , .	0.0	0
25	Degradation Mechanisms of Carbon Supports under Hydrogen Passivation Startup and Shutdown Process for PEFCs. Journal of the Electrochemical Society, 2017, 164, F181-F187.	1.3	29
26	Highly Active, CO-Tolerant, and Robust Hydrogen Anode Catalysts: Pt-M (M = Fe, Co, Ni) Alloys with Stabilized Pt-Skin Layers. ACS Catalysis, 2017, 7, 267-274.	5.5	67
27	Effect of samaria-doped ceria (SDC) interlayer on the performance of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} /SDC composite oxygen electrode for reversible solid oxide fuel cells. Electrochimica Acta, 2017, 225, 114-120.	2.6	27
28	Analysis of the Surface Oxidation Process on Pt Nanoparticles on a Glassy Carbon Electrode by Angle-Resolved, Grazing-Incidence X-ray Photoelectron Spectroscopy. Langmuir, 2017, 33, 8877-8882.	1.6	5
29	Oxygen Reduction Activity and Durability of Ordered and Disordered Pt ₃ Co Alloy Nanoparticle Catalysts at Practical Temperatures of Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F966-F972.	1.3	27
30	Remarkable Mass Activities for the Oxygen Evolution Reaction at Iridium Oxide Nanocatalysts Dispersed on Tin Oxides for Polymer Electrolyte Membrane Water Electrolysis. Journal of the Electrochemical Society, 2017, 164, F944-F947.	1.3	28
31	Important Roles of Ceria-Based Materials on Durability of Hydrogen and Oxygen Electrodes for Reversible SOEC/SOFC. ECS Transactions, 2017, 78, 3189-3195.	0.3	5
32	Effect of Microstructure on Performance of Double-Layer Hydrogen Electrodes for Reversible SOEC/SOFC. Journal of the Electrochemical Society, 2017, 164, F889-F894.	1.3	12
33	Weakened CO adsorption and enhanced structural integrity of a stabilized Pt skin/PtCo hydrogen oxidation catalyst analysed by in situ X-ray absorption spectroscopy. Catalysis Science and Technology, 2017, 7, 6124-6131.	2.1	16
34	High durability of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} /SDC composite oxygen electrode with SDC interlayer for reversible solid oxide fuel cell/solid oxide electrolysis cell. Journal of the Ceramic Society of Japan, 2017, 125, 218-222.	0.5	18
35	Research and Development of Highly Active and Durable Electrocatalysts Based on Multilateral Analyses of Fuel Cell Reactions. Electrochemistry, 2017, 85, 526-533.	0.6	2
36	Synthesis and Evaluation of Ni Catalysts Supported on BaCe _{0.5} Zr _{0.3} Y _{0.2} Ni _x O _{3-δ} with Fused-Aggregate Network Structure for the Hydrogen Electrode of Solid Oxide Electrolysis Cell. Catalysts, 2017, 7, 223.	1.6	4

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37	In Situ FTIR Analysis of CO-Tolerance of a Pt-Fe Alloy with Stabilized Pt Skin Layers as a Hydrogen Anode Catalyst for Polymer Electrolyte Fuel Cells. <i>Catalysts</i> , 2017, 7, 8.	1.6	10
38	(Invited) Analyses of CO Tolerance at Stabilized Pt-Skin/Ptfe and PtCo Hydrogen Anode Catalysts with High Activity and Robustness for Residential PEFCs. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
39	Density Functional Theory Studies of CO-Tolerant Stabilized Platinum Skin/Platinum Alloy Catalysts for the Hydrogen Oxidation Reaction. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
40	Important Roles of Ceria-Based Materials on Durability of Hydrogen and Oxygen Electrodes for Reversible SOEC/SOFC. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
41	Structures of Atomically Designed PtCo Alloy Catalysts and Durability/Activity Towards Oxygen Reduction Reaction. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
42	(Invited) Development of Highly Active and Stable Pt and Pt Alloy Catalysts Evading the Draw-Back of the Nano-Sizing for PEFC Cathodes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
43	Effect of an Sb-Doped SnO ₂ Support on the CO-Tolerance of Pt ₂ Ru ₃ Nanocatalysts for Residential Fuel Cells. <i>Catalysts</i> , 2016, 6, 139.	1.6	6
44	Oxygen Reduction Reaction Activity of Carbon-Supported Pt-Fe, Pt-Co, and Pt-Ni Alloys with Stabilized Pt-Skin Layers. <i>Electrochemistry</i> , 2016, 84, 133-137.	0.6	34
45	Electrocatalysis: Holding the Keys to Advanced Energy Materials and Systems. <i>ChemElectroChem</i> , 2016, 3, 1518-1518.	1.7	3
46	Particle-size effect of Pt cathode catalysts on durability in fuel cells. <i>Nano Energy</i> , 2016, 29, 323-333.	8.2	99
47	Highly Durable and Active PtCo Alloy/Graphitized Carbon Black Cathode Catalysts by Controlled Deposition of Stabilized Pt Skin Layers. <i>Journal of the Electrochemical Society</i> , 2016, 163, F455-F463.	1.3	38
48	Effects of SiO ₂ Nanoparticles Incorporated into Poly(Arylene Ether Sulfone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Electrochemistry</i> , 2015, 83, 150-154.	0.6	6
49	Oxygen Reduction Reaction Activity and Durability of Pt Catalysts Supported on Titanium Carbide. <i>Catalysts</i> , 2015, 5, 966-980.	1.6	46
50	Performance of practical-sized membrane-electrode assemblies using titanium nitride-supported platinum catalysts mixed with acetylene black as the cathode catalyst layer. <i>Journal of Power Sources</i> , 2015, 280, 593-599.	4.0	19
51	Analysis of the Gold/Polymer Electrolyte Membrane Interface by Polarization-Modulated ATR-FTIR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16754-16761.	1.5	5
52	Effect of adsorption of sulfate anions on the activities for oxygen reduction reaction on Nafion [®] -coated Pt/carbon black catalysts at practical temperatures. <i>Journal of Electroanalytical Chemistry</i> , 2015, 747, 91-96.	1.9	18
53	Oxygen reduction reaction at binary and ternary nanocatalysts based on Pt, Pd and Au. <i>Electrochimica Acta</i> , 2015, 182, 131-142.	2.6	48
54	Cathodic performance and high potential durability of Ta-SnO ₂ -supported Pt catalysts for PEFC cathodes. <i>Electrochemistry Communications</i> , 2015, 51, 37-40.	2.3	52

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55	Effects of short-side-chain perfluorosulfonic acid ionomers as binders on the performance of low Pt loading fuel cell cathodes. <i>Journal of Power Sources</i> , 2015, 275, 384-391.	4.0	84
56	Investigation of the effect of a hydrophilic layer in the gas diffusion layer of a polymer electrolyte membrane fuel cell on the cell performance and cold start behaviour. <i>Electrochimica Acta</i> , 2014, 120, 240-247.	0.6	3
57	Deleterious effects of interim cyclic voltammetry on Pt/carbon black catalyst degradation during start-up/shutdown cycling evaluation. <i>Electrochimica Acta</i> , 2014, 123, 84-92.	2.6	76
58	Double-Layer Ionomer Membrane for Improving Fuel Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13894-13899.	4.0	19
59	High-performance electrodes for reversible solid oxide fuel cell/solid oxide electrolysis cell: Ni-Co dispersed ceria hydrogen electrodes. <i>RSC Advances</i> , 2014, 4, 16260.	1.7	28
60	Improvements in electrical and electrochemical properties of Nb-doped SnO ₂ supports for fuel cell cathodes due to aggregation and Pt loading. <i>RSC Advances</i> , 2014, 4, 32180-32188.	1.7	56
61	Effects of Incorporation of SiO ₂ Nanoparticles into Sulfonated Polyimide Electrolyte Membranes on Fuel Cell Performance under Low Humidity Conditions. <i>Electrochimica Acta</i> , 2014, 137, 213-218.	2.6	25
62	Investigation of the effect of pore diameter of gas diffusion layers on cold start behavior and cell performance of polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , 2013, 108, 304-312.	2.6	63
63	Effect of the state of distribution of supported Pt nanoparticles on effective Pt utilization in polymer electrolyte fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11236.	1.3	99
64	High durability of Pt/graphitized carbon catalysts for polymer electrolyte fuel cells prepared by the nanocapsule method. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 137-142.	1.9	29
65	Structural variations of CO adlayers on a Pt(100) electrode in 0.1 M HClO ₄ solution: an in situ STM study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11038.	1.3	10
66	Hydrolyzed polyoxymethylenedimethylethers as liquid fuels for direct oxidation fuel cells. <i>Electrochimica Acta</i> , 2013, 108, 350-355.	2.6	22
67	Characterization of Pt catalysts on Nb-doped and Sb-doped SnO ₂ support materials with aggregated structure by rotating disk electrode and fuel cell measurements. <i>Electrochimica Acta</i> , 2013, 110, 316-324.	2.6	88
68	Investigation of the corrosion of carbon supports in polymer electrolyte fuel cells using simulated start-up/shutdown cycling. <i>Electrochimica Acta</i> , 2013, 91, 195-207.	2.6	105
69	Experimental analyses of low humidity operation properties of SiO ₂ -containing catalyst layers for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2013, 88, 807-813.	2.6	11
70	Direct STM Elucidation of the Effects of Atomic-Level Structure on Pt(111) Electrodes for Dissolved CO Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 1476-1490.	6.6	66
71	ATR-FTIR Analysis of the State of Water in a Sulfonated Block Poly(arylene ether sulfone ketone) Membrane and Proton Conductivity Measurement during the Hydration/Dehydration Cycle. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3762-3771.	1.5	16

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73	Overview of recent developments in oxygen reduction electrocatalysis. <i>Electrochimica Acta</i> , 2012, 84, 187-201.	2.6	117
74	Effect of platinum loading on fuel cell cathode performance using hydrocarbon ionomers as binders. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16713.	1.3	10
75	Preparation and Fuel Cell Performance of Catalyst Layers Using Sulfonated Polyimide Ionomers. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 730-737.	4.0	36
76	In Situ ATR-FTIR Analysis of the Structure of Nafion [®] -Pt/C and Nafion [®] -Pt ₃ Co/C Interfaces in Fuel Cell. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21401-21406.	1.5	55
77	Micro-Raman study on water distribution inside a Nafion membrane during operation of polymer electrolyte fuel cell. <i>Electrochimica Acta</i> , 2012, 82, 277-283.	2.6	32
78	Temperature Dependence of Oxygen Reduction Reaction Activity at Stabilized Pt Skin-PtCo Alloy/Graphitized Carbon Black Catalysts Prepared by a Modified Nanocapsule Method. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6982-6991.	4.0	32
79	Effect of Particle Size and Composition on CO-Tolerance at Pt [®] -Ru/C Catalysts Analyzed by In Situ Attenuated Total Reflection FTIR Spectroscopy. <i>ACS Catalysis</i> , 2012, 2, 450-455.	5.5	40
80	SiO ₂ -containing catalyst layers for PEFCs operating under low humidity. <i>Electrochemistry Communications</i> , 2012, 16, 100-102.	2.3	27
81	Electrochemical behavior of Pt [®] -Co(111), (100) and (110) alloy single-crystal electrodes in 0.1 M HClO ₄ and 0.05 M H ₂ SO ₄ solution as a function of Co content. <i>Electrochemistry Communications</i> , 2012, 18, 55-57.	2.3	23
82	Electrochemical and Raman spectroscopic evaluation of Pt/graphitized carbon black catalyst durability for the start/stop operating condition of polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2012, 70, 171-181.	2.6	107
83	Preparation of titanium nitride-supported platinum catalysts with well controlled morphology and their properties relevant to polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2012, 77, 279-284.	2.6	46
84	Tafel Slope Component Analysis of Polymer Electrolyte Fuel Cell Cathode Current-Potential Behavior. <i>ECS Transactions</i> , 2011, 35, 13-23.	0.3	3
85	Sulfonated Poly(arylene ether sulfone ketone) Multiblock Copolymers with Highly Sulfonated Blocks. Long-Term Fuel Cell Operation and Post-Test Analyses. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2786-2793.	4.0	55
86	Electrochemical quartz crystal microbalance analysis of the CO oxidation reaction at Pt alloy electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 123-129.	1.9	13
87	Structural effects on the surface oxidation processes at Pt single-crystal electrodes studied by X-ray photoelectron spectroscopy. <i>Energy and Environmental Science</i> , 2011, 4, 1662.	15.6	71
88	In situ ATR-FTIR analysis of the CO-tolerance mechanism on Pt ₂ Ru ₃ /C catalysts prepared by the nanocapsule method. <i>Energy and Environmental Science</i> , 2011, 4, 433-438.	15.6	19
89	ATR-FTIR Study of Water in Nafion Membrane Combined with Proton Conductivity Measurements during Hydration/Dehydration Cycle. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4315-4321.	1.2	94
90	Electrochemical Quartz Crystal Microbalance Analysis of the Oxygen Reduction Reaction on Pt-Based Electrodes. Part 1: Effect of Adsorbed Anions on the Oxygen Reduction Activities of Pt in HF, HClO ₄ , and H ₂ SO ₄ Solutions. <i>Langmuir</i> , 2011, 27, 6464-6470.	1.6	54

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91	Durability of Pt/Graphitized Carbon Catalyst Prepared by the Nanocapsule Method for the Start/Stop Operating Condition of Polymer Electrolyte Fuel Cells. <i>Electrochemistry</i> , 2011, 79, 381-387.	0.6	21
92	Electrochemical Activity and Durability of Platinum Catalysts Supported on Nanometer-Size Titanium Nitride Particles for Polymer Electrolyte Fuel Cells. <i>Electrochemistry</i> , 2011, 79, 399-403.	0.6	30
93	Electrocatalysis of the Oxygen Reduction Reaction at Pt and Pt-Alloys. <i>Electrochemistry</i> , 2011, 79, 303-311.	0.6	17
94	Temperature dependence of the water distribution inside a Nafion membrane in an operating polymer electrolyte fuel cell. A micro-Raman study. <i>Electrochimica Acta</i> , 2011, 58, 449-455.	2.6	45
95	Electro-oxidation of hydrolysed poly-oxymethylene-dimethylether on PtRu supported catalysts. <i>Electrochimica Acta</i> , 2011, 56, 1460-1465.	2.6	21
96	Synthesis and electrochemical characterization of Pt catalyst supported on Sn _{0.96} Sb _{0.04} O ₂ with a network structure. <i>Electrochimica Acta</i> , 2011, 56, 2881-2887.	2.6	82
97	The effectiveness of platinum/carbon electrocatalysts: Dependence on catalyst layer thickness and Pt alloy catalytic effects. <i>Electrochimica Acta</i> , 2011, 56, 4783-4790.	2.6	48
98	Facile preparation and electrochemical behavior of Pt _{100-x} Co _x (111) single-crystal electrodes in 0.1 M HClO ₄ . <i>Electrochemistry Communications</i> , 2011, 13, 317-320.	2.3	35
99	Adsorption and Oxidation of Carbon Monoxide on Pt/C, Pt ₃ Co/C, and PtRu/C Catalysts Studied by <i>In-Situ</i> Attenuated Total Reflection Fourier-Transform Infrared. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5123-5130.	0.9	10
100	Performances of Metal Particle-Dispersed Ceria Hydrogen Electrodes in Reversible SOFCs. <i>ECS Transactions</i> , 2011, 35, 1811-1816.	0.3	1
101	New evaluation method for the effectiveness of platinum/carbon electrocatalysts under operating conditions. <i>Electrochimica Acta</i> , 2010, 55, 8504-8512.	2.6	117
102	Proton-Conductive Aromatic Ionomers Containing Highly Sulfonated Blocks for High-Temperature-Operable Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 317-320.	7.2	236
103	Gas diffusion electrodes containing sulfonated poly (arylene ether) ionomer for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2010, 55, 3464-3470.	2.6	21
104	In Situ STM Observation of the CO Adlayer on a Pt(110) Electrode in 0.1 M HClO ₄ Solution. <i>Langmuir</i> , 2010, 26, 9191-9194.	1.6	21
105	Sulfonated Poly(arylene ether sulfone ketone) Multiblock Copolymers with Highly Sulfonated Block. Fuel Cell Performance. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10481-10487.	1.2	52
106	In situ STM observation of morphological changes of the Pt(111) electrode surface during potential cycling in 10 mM HF solution. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4184.	1.3	105
107	Control of Particle Size of Pt and Pt Alloy Electrocatalysts Supported on Carbon Black by the Nanocapsule Method. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 888-895.	4.0	50
108	Durability of Pt/graphitized carbon catalysts for the oxygen reduction reaction prepared by the nanocapsule method. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3806.	1.3	86

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109	Temperature dependence of oxygen reduction activity at Nafion-coated Pt/graphitized carbon black catalysts prepared by the nanocapsule method. <i>Energy and Environmental Science</i> , 2010, 3, 1511.	15.6	22
110	STEM Image Analysis Using LAT Image Processing. <i>Imaging & Microscopy</i> , 2009, 11, 34-38.	0.1	1
111	Durability of a novel sulfonated polyimide membrane in polymer electrolyte fuel cell operation. <i>Electrochimica Acta</i> , 2009, 54, 1076-1082.	2.6	63
112	Effects of the decomposition products of sulfonated polyimide and Nafion membranes on the degradation and recovery of electrode performance in PEFCs. <i>Electrochimica Acta</i> , 2009, 54, 2754-2760.	2.6	27
113	Polarization properties of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ -based double layer-type oxygen electrodes for reversible SOFCs. <i>Electrochimica Acta</i> , 2009, 54, 3309-3315.	2.6	90
114	Gas diffusion electrodes containing sulfonated poly (arylene ether) ionomer for PEFCs. <i>Electrochimica Acta</i> , 2009, 54, 4328-4333.	2.6	40
115	Synthesis of nickel nanoparticles supported on hollow samaria-doped ceria particles via the solution-spray plasma technique: Anode catalysts for SOFCs. <i>Solid State Ionics</i> , 2009, 180, 968-972.	1.3	15
116	H ₂ O-tolerant monolithic catalysts for preferential oxidation of carbon monoxide in the presence of hydrogen. <i>Applied Catalysis A: General</i> , 2009, 370, 50-53.	2.2	15
117	Oxygen Reduction at the Pt/Carbon Black-Polyimide Ionomer Interface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7772-7778.	1.5	26
118	Temperature-dependence of hydrogen oxidation reaction rates and CO-tolerance at carbon-supported Pt, Pt-Co, and Pt-Ru catalysts. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1771.	1.3	64
119	Identification and Quantification of Oxygen Species Adsorbed on Pt(111) Single-Crystal and Polycrystalline Pt Electrodes by Photoelectron Spectroscopy. <i>Langmuir</i> , 2009, 25, 1897-1900.	1.6	163
120	Performance of Pt-Fe/mordenite monolithic catalysts for preferential oxidation of carbon monoxide in a reformat gas for PEFCs. <i>Applied Catalysis A: General</i> , 2008, 341, 93-97.	2.2	39
121	In situ analysis of oxygen partial pressure at the cathode catalyst layer/membrane interface during PEFC operation. <i>Electrochimica Acta</i> , 2008, 53, 4699-4705.	2.6	15
122	Adsorption/Oxidation of CO on Highly Dispersed Pt Catalyst Studied by Combined Electrochemical and ATR-FTIRAS Methods: Oxidation of CO Adsorbed on Carbon-Supported Pt Catalyst and Unsupported Pt Black. <i>Langmuir</i> , 2008, 24, 3590-3601.	1.6	54
123	Increased Oxygen Coverage at Pt-Fe Alloy Cathode for the Enhanced Oxygen Reduction Reaction Studied by EC ⁺ XPS. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2750-2755.	1.5	164
124	Temperature Dependence of Oxygen Reduction Activity at Carbon-Supported Pt _X Co (X = 1, 2, and 3) Alloy Catalysts Prepared by the Nanocapsule Method. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8372-8380.	1.5	85
125	Influence of Decomposition Products from Perfluorosulfonic Acid Membrane on Fuel Cell Performance. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, B190.	2.2	33
126	High-Performance Electrodes for Medium-Temperature Solid Oxide Fuel Cells. , 2008, , 53-87.		3

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127	Distribution Profile of Specific Resistance in Polymer Electrolyte Membrane During Load Change for PEFC. ECS Transactions, 2007, 11, 1505-1513.	0.3	0
128	Double Layer-Type Electrodes for Reversible Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 365-371.	0.3	8
129	Temperature-Dependence of Hydrogen Oxidation Rates in the Presence of CO at Pt, PtRu, and Pt3Co Catalysts Dispersed on Carbon Black. ECS Transactions, 2007, 11, 913-919.	0.3	1
130	New Metal Separators Coated with Carbon/Resin Composite Layers for PEFCs. Electrochemistry, 2007, 75, 213-216.	0.6	2
131	é»æ±é-¢é£á^†é‡Žãšã@â¿œç””î¼^3î¼%oç†fæ-™é»æ±î¼^PEFCî¼%. Electrochemistry, 2007, 75, 489-493.	0.6	6
132	Response of Specific Resistance Distribution in Electrolyte Membrane to Load Change at PEFC Operation. Journal of the Electrochemical Society, 2007, 154, B1373.	1.3	27
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