Hidenobu Shiroishi

List of Publications by Year
in descending order

55	524	840776 11	752698 20
papers	citations	h-index	g-index

62	62	62	663
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sensitization of TiO2 particles by dyes to achieve H2 evolution by visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 136, 157-161.	3.9	102
2	Study of adsorbed water on Pt during methanol oxidation by ATR-SEIRAS (surface-enhanced infrared) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.8	60
3	Molecular Reactor for Solution Chemistry. Chemistry Letters, 2002, 31, 530-531.	1.3	24
4	Synthesis of multiwall carbon nanotube-supported platinum catalysts by solution plasma processing for oxygen reduction in polymer electrolyte fuel cells. Electrochimica Acta, 2014, 146, 73-78.	5.2	23
5	A simple biofuel cell cathode with human red blood cells as electrocatalysts for oxygen reduction reaction. Biosensors and Bioelectronics, 2014, 55, 14-18.	10.1	21
6	New CO tolerant electro-catalysts exceeding Ptâ€“Ru for the anode of fuel cells. Chemical Communications, 2005, , 1212-1214.	4.1	19
7	Electrochemical oxidation of ammonia by multi-wall-carbon-nanotube-supported Pt shellâ€“Ir core nanoparticles synthesized by an improved Cu short circuit deposition method. Journal of Electroanalytical Chemistry, 2016, 762, 29-36.	3.8	18
8	Passive micro tubular direct formic acid fuel cells (DFAFCs) with chemically assembled Pd anode nano-catalysts on polymer electrolytes. Electrochimica Acta, 2007, 53, 59-65.	5.2	15
9	High CO Tolerance ofN,N-Ethylenebis(salicylideneaminato)oxovanadium(IV) as a Cocatalyst to Pt for the Anode of Reformate Fuel Cells. Chemistry of Materials, 2006, 18, 4505-4512.	6.7	14
10	Synthesis of Pt nanoparticles as catalysts of oxygen reduction with microbubble-assisted low-voltage and low-frequency solution plasma processing. Journal of Power Sources, 2018, 382, 69-76.	7.8	14
11	PROTON CONDUCTING SOLID ELECTROLYTES BASED ON DIPHOSPHATES. Phosphorus Research Bulletin, 2007, 21, 31-37.	0.6	13
12	Oxygen Reduction Electrode Properties of Manganese Oxide Nanosheet-Based Materials. Topics in Catalysis, 2009, 52, 903-911.	2.8	12
13	New Quasi-solid Materials as a Medium for Photochemical Reactions. Journal of Physical Chemistry A, 2003, 107, 5523-5527.	2.5	11
14	Electrocatalytic Activity of the Pyrochlores Ln2M2O7â^'Î´ (LnÂ=ÂLanthanoids) for Oxygen Reduction Reaction. Topics in Catalysis, 2009, 52, 896-902.	2.8	10
15	Preparation of Au nano-particle dispersed water solution without surfactant for surface-enhanced Raman scattering platform. Molecular Crystals and Liquid Crystals, 2017, 653, 137-143.	0.9	10
16	Microwave-assisted hydrothermal synthesis of ZnO and Zn-terephthalate hybrid nanoparticles employing benzene dicarboxylic acids. Microsystem Technologies, 2018, 24, 699-708.	2.0	10
17	Shell-Core Type Proton Conducting TiP₂O₇-Based Solid Electrolytes. Key Engineering Materials, 0, 388, 57-60.	0.4	9
18	A New Concept of an Air-Electrode Catalyst for Li2O2 Decomposition Using MnO2 Nanosheets on Rechargeable Li-O2 Batteries. Electrochimica Acta, 2017, 252, 192-199.	5.2	9

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19	Analysis of charge hopping between redox center molecules in a polymer membrane based on percolation theory. Polymers for Advanced Technologies, 2001, 12, 237-243.	3.2	8
20	Dissolution Rate of Noble Metals for Electrochemical Recycle in Polymer Electrolyte Fuel Cells. Electrochemistry, 2012, 80, 898-903.	1.4	8
21	PEG-nanotube liquid crystals as templates for construction of surfactant-free gold nanorods. Chemical Communications, 2018, 54, 4665-4668.	4.1	8
22	Proton conductivity and microstructures of the core-shell type solid electrolytes in the MO2-In2O3-P2O5 (MTi, Sn, Zr) systems. Solid State Ionics, 2009, 180, 569-574.	2.7	7
23	Effect of cobalt bis(dicarbollides) on electrochemical oxygen reduction on Pt electrode in methanolâ€“acid solution. Electrochimica Acta, 2006, 51, 1225-1234.	5.2	6
24	Oxygen Reduction Electrode Properties of Pyrochlores Ln₂Ru₂O_{7-Î´}(Ln=Pr, Nd, Sm) in Aqueous Solutions. Key Engineering Materials, 2007, 350, 167-170.	0.4	6
25	Open-Source Electrochemical Measurement System Equipped with Macro Language for Successive Measurements. Journal of Computer Chemistry Japan, 2004, 3, 71-76.	0.1	6
26	Quasi-solid medium for photoinduced charge separation. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 161, 119-124.	3.9	5
27	Effects of the Substitution of Î'-Site Ion on Oxygen Reduction Electrode Properties of Pb₂Ru₂O_{7-Î´} in Aqueous Solutions. Key Engineering Materials, 2007, 350, 171-174.	0.4	5
28	Synthesis and Application of Carbon Nanotubes to Glucose Biofuel Cell with Glucose Oxidase andp-Benzoquinone. Journal of the Electrochemical Society, 2015, 162, F1482-F1486.	2.9	5
29	Lanthanum Manganite-based Air Electrode Catalysts and Their Application to Lithium-air Batteries: Effects of Carbon Support Oxidation. Electrochemistry, 2018, 86, 265-271.	1.4	5
30	Electrocatalytic water oxidation using Ru moieties incorporated into a NafionÂ® coated electrode. Journal of Electroanalytical Chemistry, 2001, 502, 132-137.	3.8	4
31	Effect of Additives on Electrochemical Reduction of Oxygen in the Presence of Methanol. Chemistry Letters, 2004, 33, 792-793.	1.3	4
32	Electrocatalytic O2 Reduction Properties of Pyrochlore-Type Oxides for Alkaline DAFCs. ECS Transactions, 2008, 16, 891-900.	0.5	4
33	Development of Oxygen Reduction Electrocatalysts Based on Manganese Oxides for AEMFCs. ECS Transactions, 2011, 41, 2185-2192.	0.5	4
34	Development of Electrochemical Analyzer for Polymer-Coated Electrode. Journal of Computer Chemistry Japan, 2002, 1, 65-72.	0.1	4
35	Visualization of Electrochemical Behavior under Finite Conditions Using JAVA and Its Application for Assisted Learning.. Journal of Chemical Software, 2001, 7, 145-152.	0.2	4
36	Reaction of 5,8-Diphenyl-5,8-dihydroanthra[1,9-bc:4,10-b'c']diquinoline or its Endoperoxide with Trifluoroacetic Acid.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2001, 14, 239-243.	0.3	3

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37	Activity analysis of trans-[RuCl2(NH3)4]+ incorporated into Nafion membrane for water oxidation catalyst. Journal of Molecular Catalysis A, 2001, 169, 269-273.	4.8	3
38	Photoinduced charge separation at polymerâ€“solution interface. Journal of Molecular Catalysis A, 2002, 187, 47-54.	4.8	3
39	Mechanism of Selective Oxygen Reduction on Platinum by 2,2â€˜-Bipyridine in the Presence of Methanol. Langmuir, 2005, 21, 3037-3043.	3.5	3
40	Development of Analyzer for Photoluminescence Quenching in a Solid Matrix.. Journal of Computer Chemistry Japan, 2002, 1, 37-46.	0.1	3
41	Catalytic water oxidation using chemically generated Ru(bpy)33+ oxidant. Journal of Molecular Catalysis A, 1999, 144, 389-395.	4.8	2
42	Visualization of Electrochemical Measurements under Finite Conditions using JAVA and Its Application for Assisted Learning (2). Journal of Chemical Software, 2002, 8, 41-46.	0.2	2
43	Oxygen Reduction Electrode Properties of Oxide Nanosheet-Based Materials. Key Engineering Materials, 0, 388, 73-76.	0.4	2
44	A Study of Intermediate Temperature Proton-Conductive Phosphate Electrolytes. Key Engineering Materials, 0, 388, 93-96.	0.4	2
45	New Oxygen Reduction Electrocatalysts Based on Oxide Nanosheet Materials. ECS Transactions, 2009, 16, 97-105.	0.5	2
46	Solvent extraction of metal ions using a new extractant, biuret(C8). Separation Science and Technology, 2017, 52, 1186-1192.	2.5	2
47	Development of non-platinum oxygen reduction catalysts prepared from metal-organic framework using 4,4â€²-bipyridine as a bridging ligand. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 228, 190-197.	3.5	2
48	Temperature effect on charge transport in a polymer membrane with dispersed [Ru(bpy)3]2+ analogues as studied by spectroelectrochemical methods. Journal of Electroanalytical Chemistry, 2002, 536, 145-150.	3.8	1
49	Basic Research of Water Photolysis Using Pyrochlore Oxides. Key Engineering Materials, 0, 388, 297-300.	0.4	1
50	Oxygen Reduction Reaction Activity of Pyrochlore Oxide Electrocatalysts Prepared by Precipitation Method. Key Engineering Materials, 0, 421-422, 479-482.	0.4	1
51	Proton Conducting Electrolytes Synthesized with Diammonium Hydrogen Phosphate. Key Engineering Materials, 0, 421-422, 471-474.	0.4	1
52	Electrocatalytic Activities of Trirutiles Based on MTaO₆ (M=Co, Ni, Mg) for Oxygen Reduction Reaction. Key Engineering Materials, 0, 421-422, 459-462.	0.4	1
53	Oxygen Reduction Catalytic Activity of Hollandite-Type Manganese Oxides. Key Engineering Materials, 2013, 566, 253-257.	0.4	1
54	Performance of Intermediate Temperature Fuel Cells with Proton Conducting Electrolytes Synthesized with Diammonium Hydrogen Phosphate (1). Key Engineering Materials, 0, 485, 145-148.	0.4	0

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55	Proton-Coupled Reversible Redox Reaction of Zinc-Terephthalate Metal-Organic Framework. ECS Transactions, 2018, 88, 259-268.	0.5	0