

Masanobu Chiku

List of Publications by Year in descending order

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papers

779
citations

623734

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526287

27
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47
all docs

47
docs citations

47
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous Vanadium Oxide/Carbon Composite Positive Electrode for Rechargeable Aluminum Battery. ACS Applied Materials & Interfaces, 2015, 7, 24385-24389.	8.0	206
2	Direct electrochemical oxidation of proteins at conductive diamond electrodes. Journal of Electroanalytical Chemistry, 2008, 612, 201-207.	3.8	67
3	Conformational Change Detection in Nonmetal Proteins by Direct Electrochemical Oxidation Using Diamond Electrodes. Analytical Chemistry, 2008, 80, 5783-5787.	6.5	65
4	Preparation of PdAg and PdAu nanoparticle-loaded carbon black catalysts and their electrocatalytic activity for the glycerol oxidation reaction in alkaline medium. Journal of Power Sources, 2015, 297, 149-157.	7.8	42
5	Preparation of ternary Pt/Rh/SnO ₂ anode catalysts for use in direct ethanol fuel cells and their electrocatalytic activity for ethanol oxidation reaction. Journal of Power Sources, 2014, 263, 280-287.	7.8	41
6	Aluminum Bis(trifluoromethanesulfonyl)imide as a Chloride-Free Electrolyte for Rechargeable Aluminum Batteries. Journal of the Electrochemical Society, 2017, 164, A1841-A1844.	2.9	34
7	Electrochemical detection of tyrosine derivatives and protein tyrosine kinase activity using boron-doped diamond electrodes. Biosensors and Bioelectronics, 2010, 26, 235-240.	10.1	29
8	Electrocatalytic Activity for Oxygen Reduction Reaction of Au Core/Pt Shell Nanoparticle-Loaded Carbon Black Catalyst with Different Core Sizes. Electrochimica Acta, 2015, 179, 100-107.	5.2	25
9	Microelectrode Studies on Kinetics of Charge Transfer at an Interface of Li Metal and Li ₂ S-P ₂ S ₅ Solid Electrolytes. Electrochemistry, 2012, 80, 740-742.	1.4	21
10	Mechanism of glycerol oxidation reaction on silver-modified palladium electrode in alkaline medium. International Journal of Hydrogen Energy, 2018, 43, 18664-18671.	7.1	20
11	Anodic stripping voltammetry of zinc at boron-doped diamond electrodes in ammonia buffer solution. Electrochimica Acta, 2010, 55, 2824-2828.	5.2	18
12	Control of Dendritic Growth of the Lithium Metal in All-Solid-State Lithium Metal Batteries: Effect of the Current Collector with Microsized Pores. ACS Applied Materials & Interfaces, 2020, 12, 22798-22803.	8.0	18
13	Ti-Cr-Ni alloys as high capacity negative electrode active materials for use in nickel-metal hydride batteries. International Journal of Hydrogen Energy, 2016, 41, 9939-9947.	7.1	15
14	NiO layers grown on a Ni substrate by galvanostatic anodization as a positive electrode material for aqueous hybrid capacitors. Journal of Power Sources, 2015, 286, 193-196.	7.8	14
15	Effect of Rhodium Modification on Activity of Platinum Nanoparticle-Loaded Carbon Catalysts for Electrochemical Toluene Hydrogenation. ACS Catalysis, 2020, 10, 13718-13728.	11.2	14
16	Simple Preparation of Au Nanoparticles and Their Application to Au Core/Pt Shell Catalysts for Oxygen Reduction Reaction. Electrocatalysis, 2012, 3, 274-283.	3.0	13
17	Effect of pretreatment on the surface structure of a Co(OH) ₂ electrode. Journal of Power Sources, 2014, 248, 762-768.	7.8	12
18	Determination of the rate-determining step in the electrochemical oxidation of Li metal at the Li negative electrode/Li ₂ S-P ₂ S ₅ solid electrolyte interface. Journal of Power Sources, 2013, 244, 675-678.	7.8	11

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19	Fabrication of Cu-modified boron-doped diamond microband electrodes and their application for selective detection of glucose. <i>Diamond and Related Materials</i> , 2010, 19, 673-679.	3.9	10
20	Electrochemical hydrogen production system from ammonia borane in methanol solution. <i>Electrochimica Acta</i> , 2012, 82, 392-396.	5.2	10
21	Electrochemical Hydrogenation Reaction of Toluene with PtRu Alloy Catalyst-Loaded Gas Diffusion Electrodes. <i>Electrocatalysis</i> , 2018, 9, 226-235.	3.0	9
22	Characterization of Pretreated Co(OH) ₂ -Coated Ni(OH) ₂ Positive Electrode for Ni-MH Batteries. <i>ECS Transactions</i> , 2012, 41, 7-12.	0.5	8
23	Simple Preparation of Pd Core Nanoparticles for Pd Core/Pt Shell Catalyst and Evaluation of Activity and Durability for Oxygen Reduction Reaction. <i>Catalysts</i> , 2015, 5, 1375-1387.	3.5	8
24	Ethanol Oxidation Reaction on Tandem Pt/Rh/SnOx Catalyst. <i>Catalysts</i> , 2017, 7, 246.	3.5	8
25	High capacity hydrogen storage alloy negative electrodes for use in nickel-metal hydride batteries. <i>Journal of Alloys and Compounds</i> , 2015, 645, S136-S139.	5.5	7
26	Copper chloride as a conversion-type positive electrode for rechargeable aluminum batteries. <i>RSC Advances</i> , 2019, 9, 41475-41480.	3.6	7
27	Preparation and Characterization of Organic-Inorganic Hybrid Hydrogel Electrolyte Using Alkaline Solution. <i>Polymers</i> , 2011, 3, 1600-1606.	4.5	5
28	Communication—Appropriate Arrangement of Rh for Selective CO ₂ Formation in Ethanol Oxidation Reaction with Pt/Rh/SnO ₂ Catalyst. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1011-F1013.	2.9	5
29	Synthesis and Electrochemical Characterization of Palladium Crystals Enclosed by (100) Facets by Seed-Mediated Fabrication. <i>International Journal of Electrochemistry</i> , 2018, 2018, 1-6.	2.4	5
30	Electrochemical Toluene Hydrogenation Using Binary Platinum-Based Alloy Nanoparticle-Loaded Carbon Catalysts. <i>Catalysts</i> , 2021, 11, 318.	3.5	5
31	Analysis of Kinetics of Oxygen Reduction Reaction in Alkaline Solution by Scanning Electrochemical Microscopy. <i>ECS Transactions</i> , 2011, 41, 2179-2184.	0.5	4
32	Effect of Rh Coverage on CO-Adsorption and -Stripping Behaviors of Rhodium-Adlayer-Modified Platinum Electrodes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14616-14626.	3.1	4
33	High-Rate Lithium Metal Plating and Stripping on Solid Electrolytes Using a Porous Current Collector with a High Aperture Ratio. <i>ACS Applied Energy Materials</i> , 2021, 4, 12613-12622.	5.1	4
34	Electrochemical Analyzing Method of the Charge Transfer Reaction at the Interface between Sulfide-based Solid Electrolyte and Positive Electrode Material with Microelectrode. <i>ECS Transactions</i> , 2014, 58, 77-84.	0.5	3
35	Communication—Porous Current Collector with Randomly Distributed Pores for Li Metal Negative Electrode in All-Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040521.	2.9	3
36	A Simple Cobalt Modifying Method for Accelerating the Rate Capability of NiO Electrode for Hybrid Capacitors. <i>Electrochemistry</i> , 2013, 81, 792-794.	1.4	2

#	ARTICLE	IF	CITATIONS
37	Preparation and Characterization of New Pt/Rh/SnO ₂ Nanoparticle Catalysts for Ethanol Oxidation Reaction to CO ₂ . ECS Transactions, 2017, 77, 1937-1945.	0.5	2
38	New Electrochemical Hydrogen Production System from Ammonia Borane. ECS Transactions, 2010, 33, 39-42.	0.5	1
39	Electrocatalytic Activity for Oxygen Reduction Reaction of Au Core/Pt Shell Catalysts. ECS Transactions, 2011, 41, 2237-2243.	0.5	1
40	Activity and Durability of Pd Core/Pt Shell-Loaded Carbon Black as the Cathode Catalyst in PEFC. ECS Transactions, 2011, 41, 2211-2218.	0.5	1
41	Electrocatalytic Ethanol Oxidation Reaction at Rh and SnO ₂ Monolayer-Modified Pt Electrodes. ECS Transactions, 2011, 41, 2277-2282.	0.5	1
42	Microband-Array Electrode Technique for the Detection of Reaction Distributions in the Depth Direction of Composite Electrodes for the All-Solid-State Lithium-Ion Batteries. ACS Omega, 2020, 5, 16739-16743.	3.5	1
43	Analysis of Mechanism of Oxygen Reduction Reaction on Non-Noble Metals in Alkaline Solution by Scanning Electrochemical Microscopy. ECS Transactions, 2013, 50, 2031-2037.	0.5	0
44	Electrochemical Characterization of Rare Earth-Free Negative Electrodes for Nickel-Metal Hydride Battery Applications. ECS Transactions, 2014, 58, 19-23.	0.5	0
45	The current state and future of aluminum rechargeable battery. Keikinzoku/Journal of Japan Institute of Light Metals, 2015, 65, 503-507.	0.4	0
46	Effect of Alloy Composition on Electrocatalytic Activity of PdAu Core/Pt Shell Nanoparticle Catalysts for Oxygen Reduction Reaction. ECS Transactions, 2015, 69, 611-617.	0.5	0
47	Metal-Free Hybrid Capacitor Using Intercalation of 1-Butyl-3-Methylimidazolium Cations. Electrochemistry, 2020, 88, 60-62.	1.4	0