Takao Gunji

List of Publications by Year
in descending order

51	821	471509 17	526287 27
papers	citations	h-index	g-index

52	52	52	1091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomically Ordered Pt₅La Nanoparticles as Electrocatalysts for the Oxygen Reduction Reaction. ACS Applied Nano Materials, 2022, 5, 4958-4965.	5.0	11
2	Structure and Performance of Through-holed Electrodes Prepared with a Pico-second Pulsed Laser for Lithium-Ion Battery. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2022, 73, 195-200.	0.2	1
3	Direct Observation of Heterogeneous Surface Reactivity and Reconstruction on Terminations of Grain Boundaries of Platinum. , 2021, 3, 622-629.		14
4	Enhancement of the Oxygen Reduction Reaction Activity of Pt by Tuning Its d-Band Center via Transition Metal Oxide Support Interactions. ACS Catalysis, 2021, 11, 9317-9332.	11.2	87
5	Preparation of chemical-resistant atomically ordered Sn-Ni alloy films by electroless plating. Journal of Alloys and Compounds, 2021, 877, 160100.	5.5	6
6	Influence of Additives added to Pd-catalyst Treatment Solutions on Electroless Palladium/Gold Plating on Copper Fine Patterns. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 43-49.	0.2	0
7	The effect of cooling process on the structure and charge/discharge capacities of Li-rich solid-solution layered oxide cathode materials for the Li-ion battery. RSC Advances, 2021, 11, 1715-1728.	3.6	2
8	Preparation of Ordered Intermetallic Compounds and Their Application in Electrocatalytic Reactions. Electrochemistry, 2021, , .	1.4	2
9	Examination on Chemical Resistance Property of Ni-Sn Layers Having High Sn Content against Sodium Hypochlorite Aqueous Solutions. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 303-305.	0.2	0
10	Surface coating of a LiNi_xCo_yAl_{1â^'xâ^'y}O₂ (x > 0.85) cathode with Li₃PO₄ for applying a water-based hybrid polymer binder during Li-ion battery preparation. RSC Advances, 2021, 11, 37150-37161.	3.6	3
11	Development of Oxygen Reduction Reaction Catalysts. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 586-592.	0.2	0
12	Evidence for interfacial geometric interactions at metalâ€“support interfaces and their influence on the electroactivity and stability of Pt nanoparticles. Journal of Materials Chemistry A, 2020, 8, 1368-1377.	10.3	25
13	Preparation of Various Pd-Based Alloys for Electrocatalytic CO₂ Reduction Reactionâ€”Selectivity Depending on Secondary Elements. Chemistry of Materials, 2020, 32, 6855-6863.	6.7	34
14	Review of the Design of Current Collectors for Improving the Battery Performance in Lithium-Ion and Post-Lithium-Ion Batteries. Electrochem, 2020, 1, 124-159.	3.3	53
15	Plasma-Devised Pt/C Model Electrodes for Understanding the Doubly Beneficial Roles of a Nanoneedle-Carbon Morphology and Strong Pt-Carbon Interface in the Oxygen Reduction Reaction. ACS Applied Energy Materials, 2020, 3, 5542-5551.	5.1	9
16	Surface double coating of a LiNiaCobAl1â^'aâ^'bO2 (a > 0.85) cathode with TiOx and Li2CO3 to apply a water-based hybrid polymer binder to Li-ion batteries. RSC Advances, 2020, 10, 13642-13654.	3.6	9
17	Electroless Deposition of Aluminum from AlCl₃/LiAlH₄/Ether Solventsï¼^1ï¼‰. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 521-529.	0.2	2
18	Electroless Deposition of Ni-Sn Layers Having High Sn Content (>30â€…at.%) on Fe Substrates (1). Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 577-586.	0.2	4

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19	Electroless Deposition of Ni-Sn Layers Having High Sn Contentï¼ˆï¼ž30â€…at.%ï¼‰on Fe Substratesï¼ˆ2ï¼‰. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 708-714.	0.2	4
20	An Improved High-rate Discharging Performance of â€œUnbalancedâ€•LiFePO₄ Cathodes with Different LiFePO₄ Loadings by a Grid-patterned Micrometer Size-holed Electrode Structuring. Electrochemistry, 2019, 87, 370-378.	1.4	10
21	Electrocatalytic Activities towards the Electrochemical Oxidation of Formic Acid and Oxygen Reduction Reactions over Bimetallic, Trimetallic and Coreâ€“Shell-Structured Pd-Based Materials. Inorganics, 2019, 7, 36.	2.7	23
22	Electrocatalytic conversion of carbon dioxide to formic acid over nanosized Cu₆Sn₅ intermetallic compounds with a SnO₂ shell layer. Catalysis Science and Technology, 2019, 9, 6577-6584.	4.1	17
23	Optimization of synthesis condition of water-resistant and thin titanium oxide layer-coated Ni-rich layered cathode materials and their cathode performance. Journal of Applied Electrochemistry, 2019, 49, 99-110.	2.9	10
24	Optimization of calcination temperature in preparation of a high capacity Li-rich solid-solution Li[Li0.2Ni0.18Co0.03Mn0.58]O2 material and its cathode performance in lithium ion battery. Electrochimica Acta, 2018, 269, 321-330.	5.2	15
25	Effect of the d-Band Center on the Oxygen Reduction Reaction Activity of Electrochemically Dealloyed Ordered Intermetallic Platinumâ€“Lead (PtPb) Nanoparticles Supported on TiO₂-Deposited Cup-Stacked Carbon Nanotubes. ACS Applied Nano Materials, 2018, 1, 2844-2850.	5.0	29
26	Electrocatalytic activity of electrochemically dealloyed PdCu₃ intermetallic compound towards oxygen reduction reaction in acidic media. Journal of Materials Chemistry A, 2018, 6, 14828-14837.	10.3	49
27	Elucidation of key factors of water-resistance of Li-rich solid-solution layered oxide cathode materials applicable to a water-based cathode preparation process for Li-ion battery. Electrochimica Acta, 2018, 283, 478-487.	5.2	4
28	Effect of the Cooling Process on the Structure and Charge/Discharge Cycling Performance in Li[Li0.20Mn0.58Ni0.18Co0.04]O2Li-Rich Solid-Solution Layered Oxide Cathode Materials for Li-Ion Battery. ECS Transactions, 2018, 85, 1497-1505.	0.5	2
29	The effect of alloying of transition metals (MÂ= Fe, Co, Ni) with palladium catalysts on the electrocatalytic activity for the oxygen reduction reaction in alkaline media. Electrochimica Acta, 2018, 283, 1045-1052.	5.2	30
30	Dependences of Discharge Capacity, Retention of Discharge Capacity, Average Discharge Voltage and Energy Density, and Rate Capability on the Composition ofxLi2MnO3-yLiNi1/2Mn1/2O2-(1-x-y)LiNi1/3Co1/3Mn1/3O2Li-rich Solid-Solution Cathode Materials for Li-Ion Battery. ECS Transactions, 2017, 75, 173-187.	0.5	3
31	Improvement of ORR Activity and Durability of Pt Electrocatalyst Nanoparticles Anchored on TiO2/Cup-Stacked Carbon Nanotube in Acidic Aqueous Media. Electrochimica Acta, 2017, 232, 404-413.	5.2	29
32	Enhanced Electrocatalytic Activity of Carbon-Supported Ordered Intermetallic Palladiumâ€“Lead (Pd₃Pb) Nanoparticles toward Electrooxidation of Formic Acid. Chemistry of Materials, 2017, 29, 2906-2913.	6.7	73
33	Preparation of Water-Resistant Surface Coated High-Voltage LiNi0.5Mn1.5O4 Cathode and Its Cathode Performance to Apply a Water-Based Hybrid Polymer Binder to Li-Ion Batteries. Electrochimica Acta, 2017, 224, 429-438.	5.2	28
34	Synthesis of water-resistant thin TiOx layer-coated high-voltage and high-capacity LiNi Co Al1−O2 (a) Tj ETQq0 0 0 rgBT /Overlock 10 Tf batteries. Electrochimica Acta, 2017, 258, 1348-1355.	5.2	21
35	Improvement of Rate Performance of LiFePO₄ Cathode with Porous LiFePO₄/Activated Carbon Hybrid Electrode Structure. Electrochemistry, 2017, 85, 447-450.	1.4	6
36	Cross-sectional Observation of Ni/Cu and Ni/Ni-P Multilayer Films Electrodeposited with Pulses of a Constant Current and their Dependence of Wear Resistance on Layer Thickness. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 213-218.	0.2	0

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37	Relationship between Pore Design on Current Collectors, the Reaction Temperature and the Rate of Li⁺ Ion Pre-doping Reaction to Laminated Graphite/Porous Current Collector Anodes. Electrochemistry, 2017, 85, 186-194.	1.4	9
38	The Effect of Additives on the Fabrication of Electroplated Bright Aluminum Films using AlCl₃-1-ethyl-3-methylimidazolium chloride-Toluene Baths. Electrochemistry, 2016, 84, 17-24.	1.4	5
39	Enhancement of the electrocatalytic oxygen reduction reaction on Pd3Pb ordered intermetallic catalyst in alkaline aqueous solutions. Journal of Applied Electrochemistry, 2016, 46, 745-753.	2.9	18
40	Site-selective deposition of binary Ptâ€“Pb alloy nanoparticles on TiO2 nanorod for acetic acid oxidative decomposition. Journal of Catalysis, 2016, 340, 276-286.	6.2	17
41	The application of a water-based hybrid polymer binder to a high-voltage and high-capacity Li-rich solid-solution cathode and its performance in Li-ion batteries. Journal of Applied Electrochemistry, 2016, 46, 267-278.	2.9	31
42	Photocatalytic decomposition of various organic compounds over WO3-supported ordered intermetallic PtPb co-catalysts. Applied Catalysis B: Environmental, 2016, 181, 475-480.	20.2	24
43	Effect of Periodic Nanostructure in Ni/Cu Multilayers Prepared with Multi-Constant Current Pulse on Their Wear Resistance Property. Materia Japan, 2016, 55, 601-601.	0.1	0
44	Preparation of a PtPb/TiO2/Cup-stacked Carbon Nanotube Composite for Enhancement of the Electrocatalytic Reaction of the Oxygen Reduction Reaction. Chemistry Letters, 2015, 44, 1741-1743.	1.3	6
45	Enhanced Activity for Oxygen Reduction Reactions by Carbon-supported High-index-facet Pt-Ti Nanoparticles. Electrochemistry, 2015, 83, 7-11.	1.4	8
46	The Effect of the Crystal Structure of Ni and Cu Layers in Ni/Cu Multilayers Prepared with Multi-Constant Current Pulse on Their Wear Resistance Property. Electrochemistry, 2015, 83, 624-629.	1.4	5
47	Fabrication of Anodic Porous Alumina Using Anodizing of Aluminum Film Electrochemically Deposited from Ionic Liquids. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2015, 66, 153-157.	0.2	2
48	Enhanced oxygen reduction reaction on PtPb ordered intermetallic nanoparticle/TiO2/carbon black in acidic aqueous solutions. Catalysis Communications, 2015, 61, 1-5.	3.3	15
49	Facile route for the preparation of ordered intermetallic Pt3Pbâ€“PtPb coreâ€“shell nanoparticles and its enhanced activity for alkaline methanol and ethanol oxidation. Journal of Power Sources, 2015, 273, 990-998.	7.8	33
50	Long-term, stable, and improved oxygen-reduction performance of titania-supported PtPb nanoparticles. Catalysis Science and Technology, 2014, 4, 1436-1445.	4.1	25
51	Visible light induced decomposition of organic compounds on WO3 loaded PtPb co-catalysts. Catalysis Communications, 2014, 56, 96-100.	3.3	8