

Takao Gunji

List of Publications by Year in descending order

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times ranked

1091
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#	ARTICLE	IF	CITATIONS
1	Enhancement of the Oxygen Reduction Reaction Activity of Pt by Tuning Its <i>d</i> -Band Center via Transition Metal Oxide Support Interactions. <i>ACS Catalysis</i> , 2021, 11, 9317-9332.	11.2	87
2	Enhanced Electrocatalytic Activity of Carbon-Supported Ordered Intermetallic Palladium-Lead (Pd ₃ Pb) Nanoparticles toward Electrooxidation of Formic Acid. <i>Chemistry of Materials</i> , 2017, 29, 2906-2913.	6.7	73
3	Review of the Design of Current Collectors for Improving the Battery Performance in Lithium-Ion and Post-Lithium-Ion Batteries. <i>Electrochem</i> , 2020, 1, 124-159.	3.3	53
4	Electrocatalytic activity of electrochemically dealloyed PdCu ₃ intermetallic compound towards oxygen reduction reaction in acidic media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14828-14837.	10.3	49
5	Preparation of Various Pd-Based Alloys for Electrocatalytic CO ₂ Reduction Reaction—Selectivity Depending on Secondary Elements. <i>Chemistry of Materials</i> , 2020, 32, 6855-6863.	6.7	34
6	Facile route for the preparation of ordered intermetallic Pt ₃ Pb core-shell nanoparticles and its enhanced activity for alkaline methanol and ethanol oxidation. <i>Journal of Power Sources</i> , 2015, 273, 990-998.	7.8	33
7	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. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 267-278.	2.9	31
8	The effect of alloying of transition metals (M = Fe, Co, Ni) with palladium catalysts on the electrocatalytic activity for the oxygen reduction reaction in alkaline media. <i>Electrochimica Acta</i> , 2018, 283, 1045-1052.	5.2	30
9	Improvement of ORR Activity and Durability of Pt Electrocatalyst Nanoparticles Anchored on TiO ₂ /Cup-Stacked Carbon Nanotube in Acidic Aqueous Media. <i>Electrochimica Acta</i> , 2017, 232, 404-413.	5.2	29
10	Effect of the <i>d</i> -Band Center on the Oxygen Reduction Reaction Activity of Electrochemically Dealloyed Ordered Intermetallic Platinum-Lead (PtPb) Nanoparticles Supported on TiO ₂ -Deposited Cup-Stacked Carbon Nanotubes. <i>ACS Applied Nano Materials</i> , 2018, 1, 2844-2850.	5.0	29
11	Preparation of Water-Resistant Surface Coated High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Cathode and Its Cathode Performance to Apply a Water-Based Hybrid Polymer Binder to Li-Ion Batteries. <i>Electrochimica Acta</i> , 2017, 224, 429-438.	5.2	28
12	Long-term, stable, and improved oxygen-reduction performance of titania-supported PtPb nanoparticles. <i>Catalysis Science and Technology</i> , 2014, 4, 1436-1445.	4.1	25
13	Evidence for interfacial geometric interactions at metal-support interfaces and their influence on the electroactivity and stability of Pt nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1368-1377.	10.3	25
14	Photocatalytic decomposition of various organic compounds over WO ₃ -supported ordered intermetallic PtPb co-catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 475-480.	20.2	24
15	Electrocatalytic Activities towards the Electrochemical Oxidation of Formic Acid and Oxygen Reduction Reactions over Bimetallic, Trimetallic and Core-Shell-Structured Pd-Based Materials. <i>Inorganics</i> , 2019, 7, 36.	2.7	23
16	Synthesis of water-resistant thin TiO _x layer-coated high-voltage and high-capacity LiNi _{1-x} Co _x O ₂ (a) Tj ETQq0 0 0 rgBT /Overlock 10 Tf batteries. <i>Electrochimica Acta</i> , 2017, 258, 1348-1355.	5.2	21
17	Enhancement of the electrocatalytic oxygen reduction reaction on Pd ₃ Pb ordered intermetallic catalyst in alkaline aqueous solutions. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 745-753.	2.9	18
18	Site-selective deposition of binary Pt-Pb alloy nanoparticles on TiO ₂ nanorod for acetic acid oxidative decomposition. <i>Journal of Catalysis</i> , 2016, 340, 276-286.	6.2	17

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19	Electrocatalytic conversion of carbon dioxide to formic acid over nanosized Cu ₆ Sn ₅ intermetallic compounds with a SnO ₂ shell layer. <i>Catalysis Science and Technology</i> , 2019, 9, 6577-6584.	4.1	17
20	Enhanced oxygen reduction reaction on PtPb ordered intermetallic nanoparticle/TiO ₂ /carbon black in acidic aqueous solutions. <i>Catalysis Communications</i> , 2015, 61, 1-5.	3.3	15
21	Optimization of calcination temperature in preparation of a high capacity Li-rich solid-solution Li[Li _{0.2} Ni _{0.18} Co _{0.03} Mn _{0.58}]O ₂ material and its cathode performance in lithium ion battery. <i>Electrochimica Acta</i> , 2018, 269, 321-330.	5.2	15
22	Direct Observation of Heterogeneous Surface Reactivity and Reconstruction on Terminations of Grain Boundaries of Platinum. , 2021, 3, 622-629.		14
23	Atomically Ordered Pt ₅ La Nanoparticles as Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Nano Materials</i> , 2022, 5, 4958-4965.	5.0	11
24	An Improved High-rate Discharging Performance of LiFePO_4 Cathodes with Different LiFePO_4 Loadings by a Grid-patterned Micrometer Size-holed Electrode Structuring. <i>Electrochemistry</i> , 2019, 87, 370-378.	1.4	10
25	Optimization of synthesis condition of water-resistant and thin titanium oxide layer-coated Ni-rich layered cathode materials and their cathode performance. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 99-110.	2.9	10
26	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. <i>Electrochemistry</i> , 2017, 85, 186-194.	1.4	9
27	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. <i>ACS Applied Energy Materials</i> , 2020, 3, 5542-5551.	5.1	9
28	Surface double coating of a LiNi _a CobAl _{1-a-b} O ₂ (a > 0.85) cathode with TiO _x and Li ₂ CO ₃ to apply a water-based hybrid polymer binder to Li-ion batteries. <i>RSC Advances</i> , 2020, 10, 13642-13654.	3.6	9
29	Visible light induced decomposition of organic compounds on WO ₃ loaded PtPb co-catalysts. <i>Catalysis Communications</i> , 2014, 56, 96-100.	3.3	8
30	Enhanced Activity for Oxygen Reduction Reactions by Carbon-supported High-index-facet Pt-Ti Nanoparticles. <i>Electrochemistry</i> , 2015, 83, 7-11.	1.4	8
31	Preparation of a PtPb/TiO ₂ /Cup-stacked Carbon Nanotube Composite for Enhancement of the Electrocatalytic Reaction of the Oxygen Reduction Reaction. <i>Chemistry Letters</i> , 2015, 44, 1741-1743.	1.3	6
32	Improvement of Rate Performance of LiFePO_4 Cathode with Porous LiFePO_4 /Activated Carbon Hybrid Electrode Structure. <i>Electrochemistry</i> , 2017, 85, 447-450.	1.4	6
33	Preparation of chemical-resistant atomically ordered Sn-Ni alloy films by electroless plating. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160100.	5.5	6
34	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. <i>Electrochemistry</i> , 2015, 83, 624-629.	1.4	5
35	The Effect of Additives on the Fabrication of Electroplated Bright Aluminum Films using AlCl ₃ -1-ethyl-3-methylimidazolium chloride-Toluene Baths. <i>Electrochemistry</i> , 2016, 84, 17-24.	1.4	5
36	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. <i>Electrochimica Acta</i> , 2018, 283, 478-487.	5.2	4

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37	Electroless Deposition of Ni-Sn Layers Having High Sn Content (>30at.%) on Fe Substrates (1). Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 577-586.	0.2	4
38	Electroless Deposition of Ni-Sn Layers Having High Sn Content (>30at.%) on Fe Substrates (2). Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 708-714.	0.2	4
39	Dependences of Discharge Capacity, Retention of Discharge Capacity, Average Discharge Voltage and Energy Density, and Rate Capability on the Composition of $\text{Li}_2\text{MnO}_3\text{-yLiNi}_{1/2}\text{Mn}_{1/2}\text{O}_2\text{-(1-x-y)LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Li-rich Solid-Solution Cathode Materials for Li-Ion Battery. ECS Transactions, 2017, 75, 173-187.	0.5	3
40	Surface coating of a $\text{LiNi}_{0.2}\text{Co}_{0.8}$ cathode with Li_3PO_4 for applying a water-based hybrid polymer binder during Li-ion battery preparation. RSC Advances, 2021, 11, 37150-37161.	3.6	3
41	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
42	Effect of the Cooling Process on the Structure and Charge/Discharge Cycling Performance in $\text{Li}[\text{Li}_{0.2}\text{Mn}_{0.58}\text{Ni}_{0.18}\text{Co}_{0.04}]\text{O}_2$ Li-Rich Solid-Solution Layered Oxide Cathode Materials for Li-Ion Battery. ECS Transactions, 2018, 85, 1497-1505.	0.5	2
43	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
44	Preparation of Ordered Intermetallic Compounds and Their Application in Electrocatalytic Reactions. Electrochemistry, 2021, , .	1.4	2
45	Electroless Deposition of Aluminum from $\text{AlCl}_3/\text{LiAlH}_4$ Ether Solvents (1). Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2020, 71, 521-529.	0.2	2
46	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
47	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
48	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
49	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
50	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
51	Development of Oxygen Reduction Reaction Catalysts. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 586-592.	0.2	0