

Yongsug Tak

List of Publications by Year in descending order

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papers

2,732
citations

172207

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74
all docs

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docs citations

74
times ranked

3871
citing authors

#	ARTICLE	IF	CITATIONS
1	Microporous Carbon Nanoplates from Regenerated Silk Proteins for Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 1993-1998.	11.1	480
2	Relationship between carbon corrosion and positive electrode potential in a proton-exchange membrane fuel cell during start/stop operation. <i>Journal of Power Sources</i> , 2009, 192, 674-678.	4.0	131
3	Influence of Bi Modification of Pt Anode Catalyst in Direct Formic Acid Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7270-7274.	1.2	120
4	Electrocatalytic activity of Cu electrode in electroreduction of CO ₂ . <i>Electrochimica Acta</i> , 2001, 46, 3015-3022.	2.6	119
5	Superior durability and stability of Pt electrocatalyst on N-doped graphene-TiO ₂ hybrid material for oxygen reduction reaction and polymer electrolyte membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118414.	10.8	85
6	Hierarchically porous carbon nanofibers containing numerous heteroatoms for Supercapacitors. <i>Journal of Power Sources</i> , 2013, 234, 285-291.	4.0	82
7	Water uptake and migration effects of electroactive ion-exchange polymer metal composite (IPMC) actuator. <i>Sensors and Actuators A: Physical</i> , 2005, 118, 98-106.	2.0	81
8	Cobalt oxide preparation from waste LiCoO ₂ by electrochemical-hydrothermal method. <i>Journal of Power Sources</i> , 2002, 112, 639-642.	4.0	77
9	Electrochemical properties of an aluminum anode in an ionic liquid electrolyte for rechargeable aluminum-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8653-8656.	1.3	74
10	Electrodeposition of PbO ₂ onto Au and Ti substrates. <i>Electrochemistry Communications</i> , 2000, 2, 646-652.	2.3	65
11	Fabrication of through-hole TiO ₂ nanotubes by potential shock. <i>Electrochemistry Communications</i> , 2010, 12, 616-619.	2.3	64
12	State-of-health diagnosis based on hamming neural network using output voltage pattern recognition for a PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4280-4289.	3.8	62
13	Porous graphene/carbon nanotube composite cathode for proton exchange membrane fuel cell. <i>Synthetic Metals</i> , 2011, 161, 2460-2465.	2.1	60
14	Influence of Au contents of AuPt anode catalyst on the performance of direct formic acid fuel cell. <i>Electrochimica Acta</i> , 2008, 53, 3474-3478.	2.6	59
15	Electrochemical characterization of polymer actuator with large interfacial area. <i>Electrochimica Acta</i> , 2002, 47, 2341-2346.	2.6	57
16	Nickel oxalate nanostructures for supercapacitors. <i>Journal of Materials Chemistry</i> , 2010, 20, 6164.	6.7	57
17	Cathodic electrophoretic deposition (EPD) of phenylenediamine-modified graphene oxide (GO) for anti-corrosion protection of metal surfaces. <i>Carbon</i> , 2019, 142, 68-77.	5.4	57
18	Cyclic voltammetry for monitoring bacterial attachment and biofilm formation. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 800-807.	2.9	54

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19	Electrodeposition of ZnO on ITO Electrode by Potential Modulation Method. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, C63.	2.2	49
20	Electrodeposition of Cu ₂ O Nanowires Using Nanoporous Alumina Template. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C27.	2.2	48
21	Effect of Electrolyte Conductivity on the Formation of a Nanotubular TiO ₂ Photoanode for a Dye-Sensitized Solar Cell. <i>Journal of the Korean Physical Society</i> , 2009, 54, 1027-1031.	0.3	47
22	Study on the LLT solid electrolyte thin film with LiPON interlayer intervening between LLT and electrodes. <i>Journal of Power Sources</i> , 2006, 163, 173-179.	4.0	44
23	Investigation of interfacial resistance between LiCoO ₂ cathode and LiPON electrolyte in the thin film battery. <i>Journal of Power Sources</i> , 2006, 159, 223-226.	4.0	40
24	Attenuated degradation of a PEMFC cathode during fuel starvation by using carbon-supported IrO ₂ . <i>Electrochimica Acta</i> , 2013, 90, 148-156.	2.6	40
25	Tunable Synthesis of N,C-Codoped Ti ³⁺ -Enriched Titanium Oxide Support for Highly Durable PEMFC Cathode. <i>ACS Catalysis</i> , 2020, 10, 12080-12090.	5.5	39
26	Prevention of <i>Pseudomonas aeruginosa</i> adhesion by electric currents. <i>Biofouling</i> , 2011, 27, 217-224.	0.8	37
27	Growth of etch pits formed during sonoelectrochemical etching of aluminum. <i>Electrochimica Acta</i> , 2005, 51, 1012-1016.	2.6	34
28	Cantilever-Type Microelectromechanical Systems Probe Card with Through-Wafer Interconnects for Fine Pitch and High-Speed Testing. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 3877-3881.	0.8	31
29	Hypostatic instability of aluminum anode in acidic ionic liquid for aluminum-ion battery. <i>Nanotechnology</i> , 2018, 29, 36LT01.	1.3	31
30	Effects of pretreatment on the aluminium etch pit formation. <i>Corrosion Science</i> , 2009, 51, 1501-1505.	3.0	30
31	In situ polymerized solid electrolytes for superior safety and stability of flexible solid-state Al-ion batteries. <i>Energy Storage Materials</i> , 2021, 40, 229-238.	9.5	30
32	Enhancement of photocatalytic properties of Cr ₂ O ₃ -TiO ₂ mixed oxides prepared by sol-gel method. <i>Current Applied Physics</i> , 2011, 11, 358-361.	1.1	29
33	On the origin of electrodeposition mechanism of ZnO on ITO substrate. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 161-164.	1.2	28
34	Nitrogen-enriched multimodal porous carbons for supercapacitors, fabricated from inclusion complexes hosted by urea hydrates. <i>RSC Advances</i> , 2012, 2, 4353.	1.7	26
35	Influence of copper oxide modification of a platinum cathode on the activity of direct methanol fuel cell. <i>Electrochimica Acta</i> , 2007, 52, 2272-2276.	2.6	25
36	Impedance-based diagnosis of polymer electrolyte membrane fuel cell failures associated with a low frequency ripple current. <i>Renewable Energy</i> , 2013, 51, 302-309.	4.3	25

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37	Implementation of discrete wavelet transform-based discrimination and state-of-health diagnosis for a polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10664-10682.	3.8	25
38	Effect of gas-diffusion electrode material heterogeneity on the structural integrity of polymer electrolyte fuel cell. <i>Energy</i> , 2010, 35, 5241-5249.	4.5	24
39	EQCM analysis of Bi oxidation mechanism on a Pt electrode. <i>Electrochemistry Communications</i> , 2005, 7, 1375-1379.	2.3	23
40	Metal Dissolution Kinetics in Aluminum Etch Tunnels. <i>Journal of the Electrochemical Society</i> , 2000, 147, 4103.	1.3	21
41	Stability of Metallic Current Collectors in Acidic Ionic Liquid for Rechargeable Aluminum-ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 3348-3352.	1.7	21
42	Passivation of Surfaces within Aluminum Etch Tunnels. <i>Journal of the Electrochemical Society</i> , 1991, 138, 371-379.	1.3	19
43	Initial Events during the Passivation of Rapidly Dissolving Aluminum Surfaces. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1453-1459.	1.3	19
44	Electrochemically Deposited NanoColumnar Junctions of Cu[sub 2]O and ZnO on Ni Nanowires. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, C81.	2.2	18
45	Evolution of Microscopic Surface Topography during Passivation of Aluminum. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1446-1452.	1.3	17
46	3D hierarchical porous carbons containing numerous nitrogen atoms as catalyst supports for PEMFCs. <i>Synthetic Metals</i> , 2012, 162, 2337-2341.	2.1	17
47	Electrochemical ozone production in inert supporting electrolytes on a boron-doped diamond electrode with a solid polymer electrolyte electrolyzer. <i>Desalination and Water Treatment</i> , 2016, 57, 10152-10158.	1.0	15
48	Selective electrodeposition of ZnO onto Cu ₂ O. <i>Electrochemistry Communications</i> , 2000, 2, 765-768.	2.3	14
49	Electrochemical characteristics of chloride ion modified Pt cathode in direct methanol fuel cells. <i>Journal of Power Sources</i> , 2006, 159, 59-62.	4.0	14
50	Investigation of hydrogen adsorption behaviours in the presence of methanol and dissolved oxygen using electrochemical quartz crystal microbalance. <i>Electrochimica Acta</i> , 2004, 50, 693-697.	2.6	10
51	Electrochemically Surface-modified Aluminum Electrode Enabling High Performance and Ultra-long Cycling Life Al-ion Batteries. <i>Electroanalysis</i> , 2022, 34, 1308-1317.	1.5	7
52	Investigation on the Growth Mechanism of Zinc Oxide Film Prepared by Electrochemical Method. <i>Materials Research Society Symposia Proceedings</i> , 1997, 495, 457.	0.1	5
53	Electro-oxidation of methanol diffused through proton exchange membrane on Pt surface: crossover rate of methanol. <i>Electrochimica Acta</i> , 2004, 50, 607-610.	2.6	5
54	Preparation of MoO ₃ /Pt electrodes by electrodeposition for a direct methanol fuel cell. <i>Research on Chemical Intermediates</i> , 2010, 36, 715-724.	1.3	5

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55	Fast charging with high capacity for aluminum rechargeable batteries using organic additive in an ionic liquid electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27525-27528.	1.3	5
56	Remote electro-precipitation of transparent ZnO on nano-porous alumina template. <i>Electrochimica Acta</i> , 2005, 51, 1-6.	2.6	4
57	Interpretation of Potential Transients during Aluminum Etch Tunnel Growth in the Presence of Sulfuric Acid. <i>Electrochemistry</i> , 2001, 69, 843-847.	0.6	4
58	Electrochemical synthesis of Ba- and Sr-based titanate thin films using Ti electrode prepared by RF sputtering. <i>Korean Journal of Chemical Engineering</i> , 2001, 18, 297-302.	1.2	3
59	Fabrication of a Nanosize-Pt-Embedded Membrane Electrode Assembly to Enhance the Utilization of Pt in Proton Exchange Membrane Fuel Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 7141-7144.	0.9	3
60	Characteristic analysis and modeling on PEMFC degradation associated with low frequency ripple current effects. , 2011, , .		3
61	Electrochemical Preparation of Pt Cathode with Polyvinylpyrrolidone as an Additive for Polymer Electrolyte Membrane Fuel Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10639-10643.	0.9	3
62	Nanoporous alumina formation using multi-step anodization and cathodic electrodeposition of metal oxides on its structure. <i>Studies in Surface Science and Catalysis</i> , 2003, 146, 205-208.	1.5	2
63	Electrochemical Fabrication of SrTiO ₃ Nanowires with Nanoporous Alumina Template. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4194-4197.	0.9	2
64	Pulse Electrodeposition of Ni-W Alloy for Trench Filling in Microelectromechanical Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5321-5325.	0.9	2
65	Effect of surface treatment on surface roughness and Ni content of nitinol stents. <i>International Journal of Surface Science and Engineering</i> , 2016, 10, 389.	0.4	2
66	Fabrication of ZnO Rod by Electrodeposition and Its Application to Dye Sensitized Solar Cell. <i>Korean Chemical Engineering Research</i> , 2012, 50, 162-166.	0.2	2
67	Electrochemical Activity of a Blue Anatase TiO ₂ Nanotube Array for the Oxygen Evolution Reaction in Alkaline Water Electrolysis. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 76-81.	0.9	1
68	ELECTROCHROMIC PROPERTIES OF Iridium Oxide Films Prepared by Pulsed Anodic Electrodeposition. , 2002, , .		0
69	Efficient FCTV provision considering DWT and DWPT-based noise suppression for overcoming the noise-induced voltage loss in PEM fuel cell. , 2016, , .		0
70	Stability of Metallic Current Collectors in Acidic Ionic Liquid for Rechargeable Aluminum-ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 3334-3334.	1.7	0
71	EFFECTS OF CHEMICAL PRETREATMENT IN THE PREPARATION OF ALUMINUM ELECTROLYTIC CAPACITOR ANODE. , 2002, , .		0
72	Effect of Pretreatment on the Dissolution of Aluminum Alloy during Hydration Process. <i>Corrosion Science and Technology</i> , 2013, 12, 215-219.	0.2	0

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73	Effect of pre-existing oxide film on the electrochemical fabrication of nanoporous alumina film. Journal of Nanoscience and Nanotechnology, 2007, 7, 4190-3.	0.9	0