

# Yongsug Tak

## List of Publications by Year in descending order

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73  
papers

2,732  
citations

172207

29  
h-index

182168

51  
g-index

74  
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74  
docs citations

74  
times ranked

3871  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Superior durability and stability of Pt electrocatalyst on N-doped graphene-TiO <sub>2</sub> hybrid material for oxygen reduction reaction and polymer electrolyte membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118414.	10.8	85
4	Tunable Synthesis of N,C-Codoped Ti <sup>3+</sup> -Enriched Titanium Oxide Support for Highly Durable PEMFC Cathode. <i>ACS Catalysis</i> , 2020, 10, 12080-12090.	5.5	39
5	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
6	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
7	Stability of Metallic Current Collectors in Acidic Ionic Liquid for Rechargeable Aluminum-ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 3334-3334.	1.7	0
8	Hypostatic instability of aluminum anode in acidic ionic liquid for aluminum-ion battery. <i>Nanotechnology</i> , 2018, 29, 36LT01.	1.3	31
9	Stability of Metallic Current Collectors in Acidic Ionic Liquid for Rechargeable Aluminum-ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 3348-3352.	1.7	21
10	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
11	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
12	Efficient FCTV provision considering DWT and DWPT-based noise suppression for overcoming the noise-induced voltage loss in PEM fuel cell. , 2016, , .		0
13	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
14	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
15	Electrochemical Activity of a Blue Anatase TiO <sub>2</sub> 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
16	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
17	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
18	Attenuated degradation of a PEMFC cathode during fuel starvation by using carbon-supported IrO <sub>2</sub> . <i>Electrochimica Acta</i> , 2013, 90, 148-156.	2.6	40

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19	Microporous Carbon Nanoplates from Regenerated Silk Proteins for Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 1993-1998.	11.1	480
20	Hierarchically porous carbon nanofibers containing numerous heteroatoms for supercapacitors. <i>Journal of Power Sources</i> , 2013, 234, 285-291.	4.0	82
21	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
22	3D hierarchical porous carbons containing numerous nitrogen atoms as catalyst supports for PEMFCs. <i>Synthetic Metals</i> , 2012, 162, 2337-2341.	2.1	17
23	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
24	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
25	Cyclic voltammetry for monitoring bacterial attachment and biofilm formation. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 800-807.	2.9	54
26	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
27	Prevention of <i>Pseudomonas aeruginosa</i> adhesion by electric currents. <i>Biofouling</i> , 2011, 27, 217-224.	0.8	37
28	Porous graphene/carbon nanotube composite cathode for proton exchange membrane fuel cell. <i>Synthetic Metals</i> , 2011, 161, 2460-2465.	2.1	60
29	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
30	Enhancement of photocatalytic properties of Cr <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> mixed oxides prepared by sol-gel method. <i>Current Applied Physics</i> , 2011, 11, 358-361.	1.1	29
31	Characteristic analysis and modeling on PEMFC degradation associated with low frequency ripple current effects. , 2011, , .		3
32	Preparation of MoO <sub>3</sub> /Pt electrodes by electrodeposition for a direct methanol fuel cell. <i>Research on Chemical Intermediates</i> , 2010, 36, 715-724.	1.3	5
33	Fabrication of through-hole TiO <sub>2</sub> nanotubes by potential shock. <i>Electrochemistry Communications</i> , 2010, 12, 616-619.	2.3	64
34	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
35	Nickel oxalate nanostructures for supercapacitors. <i>Journal of Materials Chemistry</i> , 2010, 20, 6164.	6.7	57
36	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

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37	Effects of pretreatment on the aluminium etch pit formation. <i>Corrosion Science</i> , 2009, 51, 1501-1505.	3.0	30
38	Effect of Electrolyte Conductivity on the Formation of a Nanotubular TiO <sub>2</sub> Photoanode for a Dye-Sensitized Solar Cell. <i>Journal of the Korean Physical Society</i> , 2009, 54, 1027-1031.	0.3	47
39	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
40	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
41	Electrochemical Fabrication of SrTiO <sub>3</sub> Nanowires with Nanoporous Alumina Template. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4194-4197.	0.9	2
42	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
43	Effect of pre-existing oxide film on the electrochemical fabrication of nanoporous alumina film. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4190-3.	0.9	0
44	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
45	Investigation of interfacial resistance between LiCoO <sub>2</sub> cathode and LiPON electrolyte in the thin film battery. <i>Journal of Power Sources</i> , 2006, 159, 223-226.	4.0	40
46	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
47	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
48	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
49	EQCM analysis of Bi oxidation mechanism on a Pt electrode. <i>Electrochemistry Communications</i> , 2005, 7, 1375-1379.	2.3	23
50	Remote electro-precipitation of transparent ZnO on nano-porous alumina template. <i>Electrochimica Acta</i> , 2005, 51, 1-6.	2.6	4
51	Growth of etch pits formed during sonoelectrochemical etching of aluminum. <i>Electrochimica Acta</i> , 2005, 51, 1012-1016.	2.6	34
52	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
53	Electrochemically Deposited NanoColumnar Junctions of Cu <sub>2</sub> O and ZnO on Ni Nanowires. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, C81.	2.2	18
54	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

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55	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
56	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
57	Electrodeposition of Cu <sub>2</sub> O Nanowires Using Nanoporous Alumina Template. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C27.	2.2	48
58	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
59	ELECTROCHROMIC PROPERTIES OF IRIIDIUM OXIDE FILMS PREPARED BY PULSED ANODIC ELECTRODEPOSITION. , 2002, , .		0
60	Cobalt oxide preparation from waste LiCoO <sub>2</sub> by electrochemical hydrothermal method. <i>Journal of Power Sources</i> , 2002, 112, 639-642.	4.0	77
61	Electrochemical characterization of polymer actuator with large interfacial area. <i>Electrochimica Acta</i> , 2002, 47, 2341-2346.	2.6	57
62	EFFECTS OF CHEMICAL PRETREATMENT IN THE PREPARATION OF ALUMINUM ELECTROLYTIC CAPACITOR ANODE. , 2002, , .		0
63	Electrodeposition of ZnO on ITO Electrode by Potential Modulation Method. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, C63.	2.2	49
64	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
65	Electrocatalytic activity of Cu electrode in electroreduction of CO <sub>2</sub> . <i>Electrochimica Acta</i> , 2001, 46, 3015-3022.	2.6	119
66	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
67	Electrodeposition of PbO <sub>2</sub> onto Au and Ti substrates. <i>Electrochemistry Communications</i> , 2000, 2, 646-652.	2.3	65
68	Selective electrodeposition of ZnO onto Cu <sub>2</sub> O. <i>Electrochemistry Communications</i> , 2000, 2, 765-768.	2.3	14
69	Metal Dissolution Kinetics in Aluminum Etch Tunnels. <i>Journal of the Electrochemical Society</i> , 2000, 147, 4103.	1.3	21
70	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
71	Evolution of Microscopic Surface Topography during Passivation of Aluminum. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1446-1452.	1.3	17
72	Initial Events during the Passivation of Rapidly Dissolving Aluminum Surfaces. <i>Journal of the Electrochemical Society</i> , 1994, 141, 1453-1459.	1.3	19

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73	Passivation of Surfaces within Aluminum Etch Tunnels. Journal of the Electrochemical Society, 1991, 138, 371-379.	1.3	19