

Yong-Tae Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2027677/publications.pdf>

Version: 2024-02-01

164
papers

7,102
citations

66234

42
h-index

66788

78
g-index

170
all docs

170
docs citations

170
times ranked

10417
citing authors

#	ARTICLE	IF	CITATIONS
1	Activityâ€“Stability Trends for the Oxygen Evolution Reaction on Monometallic Oxides in Acidic Environments. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2474-2478.	2.1	569
2	Isolation and Characterization of Antioxidative Peptides from Gelatin Hydrolysate of Alaska Pollack Skin. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 1984-1989.	2.4	413
3	Using Surface Segregation To Design Stable Ruâ€“r Oxides for the Oxygen Evolution Reaction in Acidic Environments. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14016-14021.	7.2	331
4	Balancing activity, stability and conductivity of nanoporous core-shell iridium/iridium oxide oxygen evolution catalysts. <i>Nature Communications</i> , 2017, 8, 1449.	5.8	250
5	Fine Size Control of Platinum on Carbon Nanotubes: From Single Atoms to Clusters. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 407-411.	7.2	211
6	Roles of Surface Steps on Pt Nanoparticles in Electro-oxidation of Carbon Monoxide and Methanol. <i>Journal of the American Chemical Society</i> , 2009, 131, 15669-15677.	6.6	186
7	Heterogeneous Catalysis for Lithiumâ€“Sulfur Batteries: Enhanced Rate Performance by Promoting Polysulfide Fragmentations. <i>ACS Energy Letters</i> , 2017, 2, 327-333.	8.8	174
8	Surface thiolation of carbon nanotubes as supports: A promising route for the high dispersion of Pt nanoparticles for electrocatalysts. <i>Journal of Catalysis</i> , 2006, 238, 394-401.	3.1	166
9	Tailoring Binding Abilities by Incorporating Oxophilic Transition Metals on 3D Nanostructured Ni Arrays for Accelerated Alkaline Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 1399-1408.	6.6	161
10	Highly dispersed ruthenium oxide nanoparticles on carboxylated carbon nanotubes for supercapacitor electrode materials. <i>Journal of Materials Chemistry</i> , 2005, 15, 4914.	6.7	157
11	Atomically dispersed Ptâ€“N ₄ sites as efficient and selective electrocatalysts for the chlorine evolution reaction. <i>Nature Communications</i> , 2020, 11, 412.	5.8	154
12	Blockâ€“Copolymerâ€“Assisted Oneâ€“Pot Synthesis of Ordered Mesoporous WO ₃ /Carbon Nanocomposites as Highâ€“Rateâ€“Performance Electrodes for Pseudocapacitors. <i>Advanced Functional Materials</i> , 2013, 23, 3747-3754.	7.8	145
13	Anomalous decrease in structural disorder due to charge redistribution in Cr-doped Li ₄ Ti ₅ O ₁₂ negative-electrode materials for high-rate Li-ion batteries. <i>Energy and Environmental Science</i> , 2012, 5, 9903.	15.6	143
14	A Mo-doped TiNb ₂ O ₇ anode for lithium-ion batteries with high rate capability due to charge redistribution. <i>Chemical Communications</i> , 2015, 51, 9849-9852.	2.2	125
15	A General Strategy to Atomically Dispersed Precious Metal Catalysts for Unravelling Their Catalytic Trends for Oxygen Reduction Reaction. <i>ACS Nano</i> , 2020, 14, 1990-2001.	7.3	116
16	Enhanced Oxygen Reduction Reaction Activity Due to Electronic Effects between Ag and Mn ₃ O ₄ in Alkaline Media. <i>ACS Catalysis</i> , 2015, 5, 3995-4002.	5.5	115
17	Soft-template synthesis of mesoporous non-precious metal catalyst with Fe-N _x /C active sites for oxygen reduction reaction in fuel cells. <i>Applied Catalysis B: Environmental</i> , 2018, 222, 191-199.	10.8	115
18	Competitive effect of carbon nanotubes oxidation on aqueous EDLC performance: Balancing hydrophilicity and conductivity. <i>Journal of Power Sources</i> , 2006, 158, 1517-1522.	4.0	101

#	ARTICLE	IF	CITATIONS
19	Bifunctional Interface of Au and Cu for Improved CO ₂ Electroreduction. ACS Applied Materials & Interfaces, 2016, 8, 23022-23027.	4.0	93
20	Drastic change of electric double layer capacitance by surface functionalization of carbon nanotubes. Applied Physics Letters, 2005, 87, 234106.	1.5	88
21	Thermal Instability of Cycled Li _x Ni _{0.5} Mn _{0.5} O ₂ Electrodes: An in Situ Synchrotron X-ray Powder Diffraction Study. Chemistry of Materials, 2008, 20, 4936-4951.	3.2	87
22	Stabilization of Oxygen-deficient Structure for Conducting Li ₄ Ti ₅ O ₁₂ by Molybdenum Doping in a Reducing Atmosphere. Scientific Reports, 2014, 4, 4350.	1.6	85
23	Additive treatment effect of TiO ₂ as supports for Pt-based electrocatalysts on oxygen reduction reaction activity. Electrochimica Acta, 2010, 55, 3628-3633.	2.6	81
24	Selective electrocatalysis imparted by metal-insulator transition for durability enhancement of automotive fuel cells. Nature Catalysis, 2020, 3, 639-648.	16.1	79
25	Shaped Ir-Ni bimetallic nanoparticles for minimizing Ir utilization in oxygen evolution reaction. Chemical Communications, 2016, 52, 5641-5644.	2.2	78
26	Protective effect of polysaccharides from Celluclast-assisted extract of Hizikia fusiforme against hydrogen peroxide-induced oxidative stress in vitro in Vero cells and in vivo in zebrafish. International Journal of Biological Macromolecules, 2018, 112, 483-489.	3.6	77
27	Extremely fast electrochromic supercapacitors based on mesoporous WO ₃ prepared by an evaporation-induced self-assembly. NPG Asia Materials, 2020, 12, .	3.8	76
28	Free standing acetylene black mesh to capture dissolved polysulfide in lithium sulfur batteries. Chemical Communications, 2013, 49, 11107.	2.2	74
29	Gallic Acid-g-Chitosan Modulates Inflammatory Responses in LPS-Stimulated RAW264.7 Cells Via NF- κ B, AP-1, and MAPK Pathways. Inflammation, 2016, 39, 366-374.	1.7	73
30	Electronic structures of Pt clusters adsorbed on (5,5) single wall carbon nanotube. Chemical Physics Letters, 2006, 432, 213-217.	1.2	71
31	CO ₂ Electroreduction on Au/TiC: Enhanced Activity Due to Metal-Support Interaction. ACS Catalysis, 2017, 7, 2101-2106.	5.5	69
32	Effects of transition metal doping in Pt/M-TiO ₂ (M=V, Cr, and Nb) on oxygen reduction reaction activity. Journal of Power Sources, 2016, 320, 188-195.	4.0	65
33	On the mechanism of high product selectivity for HCOOH using Pb in CO ₂ electroreduction. Physical Chemistry Chemical Physics, 2016, 18, 9652-9657.	1.3	60
34	Highly active and selective Au thin layer on Cu polycrystalline surface prepared by galvanic displacement for the electrochemical reduction of CO ₂ to CO. Applied Catalysis B: Environmental, 2017, 213, 211-215.	10.8	53
35	Compressive strain as the main origin of enhanced oxygen reduction reaction activity for Pt electrocatalysts on chromium-doped titania support. Applied Catalysis B: Environmental, 2014, 158-159, 112-118.	10.8	50
36	Platinum dendrites with controlled sizes for oxygen reduction reaction. Electrochemistry Communications, 2010, 12, 1596-1599.	2.3	49

#	ARTICLE	IF	CITATIONS
37	Electrochemically Activated Iridium Oxide Black as Promising Electrocatalyst Having High Activity and Stability for Oxygen Evolution Reaction. ACS Energy Letters, 2018, 3, 1110-1115.	8.8	48
38	Bifunctional enhancement of oxygen reduction reaction activity on Ag catalysts due to water activation on LaMnO ₃ supports in alkaline media. Scientific Reports, 2015, 5, 13552.	1.6	47
39	Changes in the Crystal Structure and Electrochemical Properties of Li _x Ni _{0.5} Mn _{0.5} O ₂ during Electrochemical Cycling to High Voltages. Journal of the Electrochemical Society, 2007, 154, A566.	1.3	46
40	Platinum single atoms dispersed on carbon nanotubes as reusable catalyst for Suzuki coupling reaction. Journal of Catalysis, 2017, 352, 388-393.	3.1	46
41	Protective effects of polysaccharides from Psidium guajava leaves against oxidative stresses. International Journal of Biological Macromolecules, 2016, 91, 804-811.	3.6	43
42	Isolation and identification of an antioxidant flavonoid compound from citrus-processing by-product. Journal of the Science of Food and Agriculture, 2011, 91, 1925-1927.	1.7	42
43	Fabrication of hierarchical ZnO nanostructures for dye-sensitized solar cells. Electrochimica Acta, 2012, 78, 417-421.	2.6	42
44	Thermally Stable Gel Polymer Electrolytes. Journal of the Electrochemical Society, 2003, 150, A439.	1.3	41
45	Tungsten Carbide as a Highly Efficient Catalyst for Polysulfide Fragmentations in Li-S Batteries. Journal of Physical Chemistry C, 2018, 122, 7664-7669.	1.5	39
46	Electrocatalyst design for promoting two-electron oxygen reduction reaction: Isolation of active site atoms. Current Opinion in Electrochemistry, 2020, 21, 109-116.	2.5	39
47	Steam reforming of methanol for ultra-pure H ₂ production in a membrane reactor: Techno-economic analysis. International Journal of Hydrogen Energy, 2019, 44, 2330-2339.	3.8	38
48	Site-Specific Transition Metal Occupation in Multicomponent Pyrophosphate for Improved Electrochemical and Thermal Properties in Lithium Battery Cathodes: A Combined Experimental and Theoretical Study. Journal of the American Chemical Society, 2012, 134, 11740-11748.	6.6	37
49	The cycling performances of lithium-sulfur batteries in TEGDME/DOL containing LiNO ₃ additive. Ionics, 2013, 19, 1795-1802.	1.2	35
50	Strong Interaction between Pt and Thiolated Carbon for Electrocatalytic Durability Enhancement. ACS Catalysis, 2013, 3, 3067-3074.	5.5	34
51	Extended Analysis of the Z ² -FET: Operation as Capacitorless eDRAM. IEEE Transactions on Electron Devices, 2017, 64, 4486-4491.	1.6	34
52	Structural and electronic properties of Pt _n (n = 3, 7, 13) clusters on metallic single wall carbon nanotube. Physica Status Solidi (B): Basic Research, 2006, 243, 3472-3475.	0.7	32
53	Catalyst-Doped Anodic TiO ₂ Nanotubes: Binder-Free Electrodes for (Photo)Electrochemical Reactions. Catalysts, 2018, 8, 555.	1.6	30
54	Trace amounts of Ru-doped Ni-Fe oxide bone-like structures via single-step anodization: a flexible and bifunctional electrode for efficient overall water splitting. Journal of Materials Chemistry A, 2021, 9, 12041-12050.	5.2	30

#	ARTICLE	IF	CITATIONS
55	Ni _{0.67} Fe _{0.33} Hydroxide Incorporated with Oxalate for Highly Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2021, 13, 42870-42879.	4.0	30
56	PtRu nano-dandelions on thiolated carbon nanotubes: a new synthetic strategy for supported bimetallic core-shell clusters on the atomic scale. Chemical Communications, 2010, 46, 2085.	2.2	29
57	Enhanced electrocatalytic performance due to anomalous compressive strain and superior electron retention properties of highly porous Pt nanoparticles. Journal of Catalysis, 2012, 291, 69-78.	3.1	29
58	An upper limit of Cr-doping level to Retain Zero-strain Characteristics of Li4Ti5O12 Anode Material for Li-ion Batteries. Scientific Reports, 2017, 7, 43335.	1.6	29
59	Improved performance of dual-conducting polymer-coated sulfur composite with high sulfur utilization for lithium-sulfur batteries. Journal of Alloys and Compounds, 2018, 742, 868-876.	2.8	29
60	Phase change of bimetallic PdCo electrocatalysts caused by different heat-treatment temperatures: Effect on oxygen reduction reaction activity. Journal of Catalysis, 2012, 290, 65-78.	3.1	28
61	Z^{extf}_{2} -FET as Capacitor-Less eDRAM Cell For High-Density Integration. IEEE Transactions on Electron Devices, 2017, 64, 4904-4909.	1.6	28
62	CO2 reforming of methane for H2 production in a membrane reactor as CO2 utilization: Computational fluid dynamics studies with a reactor geometry. International Journal of Hydrogen Energy, 2019, 44, 2298-2311.	3.8	27
63	Prevention of oxidative stress in Chang liver cells by gallic acid-grafted-chitosans. Carbohydrate Polymers, 2012, 87, 876-880.	5.1	26
64	Self-activated anodic nanoporous stainless steel electrocatalysts with high durability for the hydrogen evolution reaction. Electrochimica Acta, 2020, 364, 137315.	2.6	26
65	Ag layer deposited on Zn by physical vapor deposition with enhanced CO selectivity for electrochemical CO2 reduction. Applied Surface Science, 2020, 526, 146651.	3.1	26
66	Cu-Based Thermoelectrochemical Cells for Direct Conversion of Low-Grade Waste Heat into Electricity. ACS Applied Energy Materials, 2020, 3, 6383-6390.	2.5	26
67	Formation of Single Pt Atoms on Thiolated Carbon Nanotubes Using a Moderate and Large-Scale Chemical Approach. Advanced Materials, 2006, 18, 2634-2638.	11.1	25
68	Enhanced corrosion resistance and fuel cell performance of Al1050 bipolar plate coated with TiN/Ti double layer. Energy Conversion and Management, 2013, 75, 727-733.	4.4	25
69	Hydrogen Oxidation-Selective Electrocatalysis by Fine Tuning of Pt Ensemble Sites to Enhance the Durability of Automotive Fuel Cells. ChemSusChem, 2017, 10, 489-493.	3.6	24
70	Gas-phase Dehydration of Glycerol over Supported Silicotungstic Acids Catalysts. Bulletin of the Korean Chemical Society, 2010, 31, 3283-3290.	1.0	24
71	Fabrication of normally-off GaN nanowire gate-all-around FET with top-down approach. Applied Physics Letters, 2016, 109, .	1.5	23
72	Cost-efficient nickel-based thermo-electrochemical cells for utilizing low-grade thermal energy. Journal of Power Sources, 2021, 494, 229705.	4.0	23

#	ARTICLE	IF	CITATIONS
73	Oxidation treatment of carbon nanotubes: An essential process in nanocomposite with RuO ₂ for supercapacitor electrode materials. <i>Applied Physics Letters</i> , 2006, 89, 033107.	1.5	22
74	Critical role of elemental copper for enhancing conversion kinetics of sulphur cathodes in rechargeable magnesium batteries. <i>Applied Surface Science</i> , 2019, 484, 933-940.	3.1	22
75	Catalytic oxidation kinetics of iron-containing carbon particles generated by spraying ferrocene-mixed with diesel fuel into a hydrogen-air diffusion flame. <i>Carbon</i> , 2010, 48, 2072-2084.	5.4	21
76	Shuttle inhibitor effect of lithium perchlorate as an electrolyte salt for lithium-sulfur batteries. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 75-79.	1.5	21
77	Enhancing triple-phase boundary at fuel electrode of direct carbon fuel cell using a fuel-filled ceria-coated porous anode. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17314-17321.	3.8	21
78	Enhancing Ni anode performance via Gd ₂ O ₃ addition in molten carbonate-type direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16541-16547.	3.8	21
79	Enhanced rate capability due to highly active Ta ₂ O ₅ catalysts for lithium sulfur batteries. <i>Journal of Power Sources</i> , 2019, 435, 226707.	4.0	21
80	Evaluation of the formability of a bipolar plate manufactured from aluminum alloy Al 1050 using the rubber pad forming process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2012, 226, 909-918.	1.5	20
81	Purification of antioxidative peptide from peptic hydrolysates of Mideodeok (<i>Styela clava</i>) flesh tissue. <i>Food Science and Biotechnology</i> , 2013, 22, 541-547.	1.2	20
82	Enhanced performance of sulfur-infiltrated bimodal mesoporous carbon foam by chemical solution deposition as cathode materials for lithium sulfur batteries. <i>Scientific Reports</i> , 2017, 7, 42238.	1.6	20
83	Oxygen reduction reaction of vertically-aligned nanoporous Ag nanowires. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120586.	10.8	20
84	Asymmetric dehydration of β -hydroxy esters and application to the syntheses of flavane derivatives. <i>Tetrahedron</i> , 2008, 64, 1515-1522.	1.0	19
85	High density Ag nanobranches decorated with sputtered Au nanoparticles for surface-enhanced Raman spectroscopy. <i>Applied Surface Science</i> , 2017, 410, 525-529.	3.1	19
86	Polyselenide Anchoring Using Transition-Metal Disulfides for Enhanced Lithium-Selenium Batteries. <i>Inorganic Chemistry</i> , 2018, 57, 2149-2156.	1.9	19
87	Leader Peptidase from <i>Escherichia coli</i> : Overexpression, Characterization, and Inactivation by Modification of Tryptophan Residues 300 and 310 with N-Bromosuccinimide. <i>Journal of Biochemistry</i> , 1995, 117, 535-544.	0.9	18
88	Microwave-assisted evolution of WO ₃ and WS ₂ /WO ₃ hierarchical nanotrees. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9654-9660.	5.2	18
89	Bioactive Compounds Extracted from <i>Ecklonia cava</i> by Using Enzymatic Hydrolysis Protects High Glucose-Induced Damage in INS-1 Pancreatic β -Cells. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1973-1985.	1.4	17
90	Phase-tuned nanoporous vanadium pentoxide as binder-free cathode for lithium ion battery. <i>Electrochimica Acta</i> , 2020, 330, 135192.	2.6	17

#	ARTICLE	IF	CITATIONS
91	Facile and rapid synthesis of zinc oxalate nanowires and their decomposition into zinc oxide nanowires. <i>Journal of Crystal Growth</i> , 2010, 312, 2946-2951.	0.7	16
92	Anomalously increased oxygen reduction reaction activity with accelerated durability test cycles for platinum on thiolated carbon nanotubes. <i>Chemical Communications</i> , 2014, 50, 596-598.	2.2	16
93	Flame aerosol synthesis of carbon-supported Pt-Ru catalysts for a fuel cell electrode. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14416-14420.	3.8	16
94	Shape and Composition Control of Monodisperse Hybrid Pt-CoO Nanocrystals by Controlling the Reaction Kinetics with Additives. <i>Scientific Reports</i> , 2017, 7, 3851.	1.6	16
95	Performance enhancement of molten carbonate-based direct carbon fuel cell (MC-DCFC) via adding mixed ionic-electronic conductors into Ni anode catalyst layer. <i>Journal of Power Sources</i> , 2018, 386, 28-33.	4.0	16
96	Highly active coral-like porous silver for electrochemical reduction of CO ₂ to CO. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101242.	3.3	16
97	Hybrid thermo-electrochemical energy harvesters for conversion of low-grade thermal energy into electricity via tungsten electrodes. <i>Applied Energy</i> , 2021, 299, 117334.	5.1	16
98	Morphology Dependence on Surface-Enhanced Raman Scattering Using Gold Nanorod Arrays Consisting of Agglomerated Nanoparticles. <i>Plasmonics</i> , 2017, 12, 203-208.	1.8	15
99	A double raster laser scanning strategy for rapid die-less bending of 3D shape. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4741-4756.	2.6	15
100	Fucoxanthin derivatives from <i>Sargassum siliquastrum</i> inhibit matrix metalloproteinases by suppressing NF- κ B and MAPKs in human fibrosarcoma cells. <i>Algae</i> , 2014, 29, 355-366.	0.9	15
101	Temperature dependence of morphology and oxygen reduction reaction activity for carbon-supported Pd-Co electrocatalysts. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1917-1923.	1.5	14
102	Au coated PS nanopillars as a highly ordered and reproducible SERS substrate. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 25, 65-71.	1.0	14
103	Controlled synthesis of La _{1-x} Sr _x CrO ₃ nanoparticles by hydrothermal method with nonionic surfactant and their ORR activity in alkaline medium. <i>Materials Research Bulletin</i> , 2013, 48, 3651-3656.	2.7	13
104	Pd-Sn Alloy Electrocatalysts for Interconversion Between Carbon Dioxide and Formate/Formic Acid. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7547-7555.	0.9	13
105	In-situ Precipitation-induced Growth of Leaf-like CuO Nanostructures on Cu-Ni Alloys for Binder-free Anodes in Li-ion Batteries. <i>ChemSusChem</i> , 2020, 13, 419-425.	3.6	13
106	Enzymic properties of recombinant BACE2. <i>FEBS Journal</i> , 2002, 269, 5668-5677.	0.2	12
107	Direct access to aggregation-free and small intermetallic nanoparticles in ordered, large-pore mesoporous carbon for an electrocatalyst. <i>RSC Advances</i> , 2016, 6, 88255-88264.	1.7	12
108	Polyethylenimine-assisted Synthesis of Au Nanoparticles for Efficient Syngas Production. <i>Electroanalysis</i> , 2019, 31, 1401-1408.	1.5	12

#	ARTICLE	IF	CITATIONS
109	Anion additives in rapid breakdown anodization for nonmetal-doped TiO ₂ nanotube powders. <i>Electrochemistry Communications</i> , 2019, 109, 106610.	2.3	12
110	Promoting Oxygen Evolution Reaction Induced by Synergetic Geometric and Electronic Effects of IrCo Thin-Film Electrocatalysts. <i>ACS Catalysis</i> , 2022, 12, 6334-6344.	5.5	12
111	Enhancement of Activity and Durability through Cr Doping of TiO ₂ Supports in Pt Electrocatalysts for Oxygen Reduction Reactions. <i>ChemCatChem</i> , 2014, 6, 3239-3245.	1.8	11
112	Investigation of developed precipitates in AlMgSiCu alloys with and without excess Si. <i>Materials Science and Technology</i> , 2010, 26, 440-444.	0.8	10
113	Tempcore Process Simulator to Analyze Microstructural Evolution of Quenched and Tempered Rebar. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2938.	1.3	10
114	Controlled contribution of Ni and Cr cations to stainless steel 304 electrode: Effect of electrochemical oxidation on electrocatalytic properties. <i>Electrochemistry Communications</i> , 2020, 117, 106770.	2.3	10
115	10 $\frac{1}{4}$ -m-thick MoO ₃ -coated TiO ₂ nanotubes as a volume expansion regulated binder-free anode for lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 364-370.	2.9	10
116	Thermal stability enhancement of Cu/WN/SiOF/Si multilayers by post-plasma treatment of fluorine-doped silicon dioxide. <i>Journal of Applied Physics</i> , 1999, 85, 473-477.	1.1	9
117	Shape-Controlled Synthesis of Dumbbell-like Pt ₃ Fe ₄ MnO _x Nanoparticles by Governing the Reaction Kinetics. <i>ACS Omega</i> , 2017, 2, 8483-8489.	1.6	9
118	Enhanced Activity and Stability of Nanoporous PtIr Electrocatalysts for Unitized Regenerative Fuel Cell. <i>ACS Applied Energy Materials</i> , 2020, 3, 1423-1428.	2.5	9
119	Enhanced Activity for Oxygen Evolution Reaction of Nanoporous IrNi thin film Formed by Electrochemical Selective Etching Process. <i>Journal of Electrochemical Science and Technology</i> , 2019, 10, 402-407.	0.9	9
120	Liquefied-Natural-Gas-Derived Vertical Carbon Layer Deposited on SiO as Cost-Effective Anode for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020528.	1.3	9
121	Anticancer effect of lipids partially purified from Pacific oyster, <i>Crassostrea gigas</i> on PC3 cells. <i>Food Science and Biotechnology</i> , 2010, 19, 213-217.	1.2	8
122	Cellular properties of the fermented microalgae <i>Pavlova</i> and its isolated active peptide in osteoblastic differentiation of MG-63 cells. <i>Molecular Medicine Reports</i> , 2018, 17, 2044-2050.	1.1	8
123	Simulation Perspectives of Sub-1V Single-Supply Z ² -FET 1T-DRAM Cells for Low-Power. <i>IEEE Access</i> , 2019, 7, 40279-40284.	2.6	8
124	Alginate Acid from <i>Padina boryana</i> Abate Particulate Matter-Induced Inflammatory Responses in Keratinocytes and Dermal Fibroblasts. <i>Molecules</i> , 2020, 25, 5746.	1.7	8
125	Three-Dimensionally Interconnected Nanoporous IrRe Thin Films Prepared by Selective Etching of Re for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 4173-4180.	2.5	8
126	Harvesting Low-Grade Waste Heat to Electrical Power Using a Thermochemical Cell Based on a Titanium Carbide Electrode. <i>ACS Applied Energy Materials</i> , 2022, 5, 2130-2137.	2.5	8

#	ARTICLE	IF	CITATIONS
127	Ultrastable Aqueous Graphite Nanofluids Prepared by Single-step Liquid-phase Pulsed Laser Ablation (LP-PLA). <i>Chemistry Letters</i> , 2011, 40, 768-769.	0.7	7
128	Analysis of the origin of periodic oscillatory flow in the continuous casting mold. <i>Metals and Materials International</i> , 2015, 21, 295-302.	1.8	7
129	Electrochemical Properties of Lithium Sulfur Battery with Silicon Anodes Lithiated by Direct Contact Method. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 228-233.	0.9	7
130	Effect of Al Content on the Gas-Phase Dehydration of Glycerol over Silica-Alumina-Supported Silicotungstic Acid Catalysts. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2369-2377.	1.0	7
131	Sputter-deposited ZnO thin films consisting of nano-networks for binder-free dye-sensitized solar cells. <i>Current Applied Physics</i> , 2013, 13, 381-385.	1.1	6
132	Purification and Identification of an Antioxidative Peptide from Digestive Enzyme Hydrolysis of Cutlassfish Muscle. <i>Journal of Aquatic Food Product Technology</i> , 2018, 27, 934-944.	0.6	6
133	Fine Structure Effect of PdCo electrocatalyst for Oxygen Reduction Reaction Activity: Based on X-ray Absorption Spectroscopy Studies with Synchrotron Beam. <i>Journal of Electrochemical Science and Technology</i> , 2010, 1, 31-38.	0.9	6
134	Seahorse-derived peptide suppresses invasive migration of HT1080 fibrosarcoma cells by competing with intracellular β -enolase for plasminogen binding and inhibiting uPA-mediated activation of plasminogen. <i>BMB Reports</i> , 2014, 47, 691-696.	1.1	6
135	Direct covalent thiolation of carbon nanotube supports to enhance the durability of highly loaded Pt electrocatalysts. <i>Electrochemistry Communications</i> , 2012, 19, 85-89.	2.3	5
136	Examination of chemical and physical effects on sump screen clogging of containment materials used in Korean plants. <i>Annals of Nuclear Energy</i> , 2014, 69, 51-56.	0.9	5
137	Platinum Single Atoms on Carbon Nanotubes as Efficient Catalyst for Hydroalkoxylation. <i>Bulletin of the Korean Chemical Society</i> , 2017, 38, 1221-1225.	1.0	5
138	Current Collapse-Free and Self-Heating Performances in Normally Off GaN Nanowire GAA-MOSFETs. <i>IEEE Journal of the Electron Devices Society</i> , 2018, 6, 354-359.	1.2	5
139	Enhancing Electrochemical CO ₂ Reduction Activity via Charge Transfer and sp-Band Filling in a Au Thin Layer on Ag. <i>ACS Applied Energy Materials</i> , 2020, 3, 9792-9798.	2.5	5
140	Visualization of Transition Metal Decoration on h-BN Surface. <i>Nano Letters</i> , 2021, 21, 10562-10569.	4.5	5
141	Surface Thiolation of MCMB to Support Sn Nanoparticles for Anode Materials of Lithium Ion Batteries. <i>Chemistry Letters</i> , 2010, 39, 610-611.	0.7	4
142	Codoping effect of Li _{1.1} V _{0.9} O ₂ anodes for lithium-ion batteries with Mo and W (Li _{1.1} V _{0.9} ~ ₂ xMoxWxO ₂): Based on electronic structure calculations using full-potential KKR-Green's function method. <i>Journal of Alloys and Compounds</i> , 2012, 526, 135-138.	2.8	4
143	Effect of a Surface Area and a d-Band Oxidation State on the Activity and Stability of RuOx Electrocatalysts for Oxygen Evolution Reaction. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1874-1877.	1.0	4
144	Reuse of wastewater discharged from thermal-plasma decomposition of chlorodifluoromethane: Production of titanium dioxide nanopowder. <i>Journal of Cleaner Production</i> , 2020, 250, 119542.	4.6	4

#	ARTICLE	IF	CITATIONS
145	Combined Effect of Catholyte Gap and Cell Voltage on Syngas Ratio in Continuous CO ₂ /H ₂ O Co-electrolysis. Journal of Electrochemical Science and Technology, 0, , .	0.9	4
146	Electrochemical Properties of Li _{1.1} V _{0.75} W _{0.075} Mo _{0.075} O ₂ /Graphite Composite Anodes for Lithium-ion Batteries. Bulletin of the Korean Chemical Society, 2012, 33, 65-68.	1.0	4
147	Protective effect of carvacrol from Thymus quinquecostatus Celak against tert-butyl hydroperoxide-induced oxidative damage in Chang cells. Food Science and Biotechnology, 2015, 24, 735-741.	1.2	3
148	Effects of the Ultrasound Treatment on Reaction Rates in the RH Processor Water Model System. Metals and Materials International, 2019, 25, 238-247.	1.8	3
149	Inverse-direction Growth of TiO ₂ Microcones by Subsequent Anodization in HClO ₄ for Increased Performance of Lithium-ion Batteries. ChemElectroChem, 2020, 7, 1248-1255.	1.7	3
150	Asymmetric cell design for decoupled hydrogen and oxygen evolution paired with V(II)/V(III) redox mediator. Catalysis Today, 2022, 403, 67-73.	2.2	3
151	Electrochemical Properties of Lithium Sulfur Battery with Silicon Anodes Lithiated by Direct Contact Method. Journal of Electrochemical Science and Technology, 2016, 7, 228-233.	0.9	3
152	Low-hysteresis manganese hexacyanoferrate (MnHCF) aqueous battery for low-grade thermal energy harvesting. Journal of Power Sources, 2022, 524, 231080.	4.0	3
153	Enhanced Gas Sensing Performance of Hydrophilic Graphite Nanoparticles Synthesized by Liquid Phase Pulsed Laser Ablation. Journal of Nanoscience and Nanotechnology, 2013, 13, 7020-7024.	0.9	1
154	Effects of Variation of Heat Flux Released from the Meniscus on the Surface Shape of the Solidified Shell During Continuous Casting. Metals and Materials International, 2021, 27, 5346-5359.	1.8	1
155	Analyses on Fine Structure and Electronic Structure of Cr-doped Li ₄ Ti ₅ O ₁₂ by Using X-ray Absorption Spectroscopy and First Principle Calculation. Journal of the Korean Electrochemical Society, 2011, 14, 33-37.	0.1	1
156	Comparison of Antioxidant and Physiological Activities of Processed Waters Generated during Red Bean Paste Preparation. Journal of the Korean Society of Food Science and Nutrition, 2021, 50, 1168-1176.	0.2	1
157	The influence of laser powder-bed fusion microstructures on the corrosion behavior of CuSn alloy. Journal of Materials Science, 0, , 1.	1.7	1
158	Thermo-Chemical Analysis of a Calcination Furnace to Produce Cathode Material for the Secondary Batteries. Advanced Materials Research, 0, 413, 477-485.	0.3	0
159	Characteristic Corrosion Resistance of Nanocrystalline TiN Films Prepared by High Density Plasma Reactive Magnetron Sputtering. Journal of Nanoscience and Nanotechnology, 2013, 13, 4601-4607.	0.9	0
160	Electrochemical synthesis of zinc ricinoleate and its application in ammonia adsorption. Journal of Environmental Chemical Engineering, 2021, 9, 105083.	3.3	0
161	Thermo-Chemical Analysis of a Calcination Furnace to Produce Cathode Material for the Secondary Batteries. Journal of the Korean Electrochemical Society, 2009, 12, 155-161.	0.1	0
162	Electrochemical Immunosensor Using a Gas Diffusion Layer as an Immobilization Matrix. Bulletin of the Korean Chemical Society, 2011, 32, 1975-1979.	1.0	0

#	ARTICLE	IF	CITATIONS
163	Hydrophilic Graphite Nanoparticles Synthesized by Liquid Phase Pulsed Laser Ablation and Their Carbon-composite Sensor Application. Journal of the Korean Electrochemical Society, 2012, 15, 236-241.	0.1	0
164	Electrochemical Characteristic Change of Cr-doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ due to Different Water Solubility of Dopant Precursors. Journal of the Korean Electrochemical Society, 2015, 18, 17-23.	0.1	0