

Yong-Tae Kim

List of Publications by Year in descending order

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164
papers

7,102
citations

66234

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66788

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170
all docs

170
docs citations

170
times ranked

10417
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric cell design for decoupled hydrogen and oxygen evolution paired with V(II)/V(III) redox mediator. <i>Catalysis Today</i> , 2022, 403, 67-73.	2.2	3
2	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
3	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
4	Low-hysteresis manganese hexacyanoferrate (MnHCF) aqueous battery for low-grade thermal energy harvesting. <i>Journal of Power Sources</i> , 2022, 524, 231080.	4.0	3
5	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
6	Effects of Variation of Heat Flux Released from the Meniscus on the Surface Shape of the Solidified Shell During Continuous Casting. <i>Metals and Materials International</i> , 2021, 27, 5346-5359.	1.8	1
7	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
8	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. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12041-12050.	5.2	30
9	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
10	Electrochemical synthesis of zinc ricinoleate and its application in ammonia adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105083.	3.3	0
11	10 μ 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
12	Cost-efficient nickel-based thermo-electrochemical cells for utilizing low-grade thermal energy. <i>Journal of Power Sources</i> , 2021, 494, 229705.	4.0	23
13	Ni _{0.67} Fe _{0.33} Hydroxide Incorporated with Oxalate for Highly Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42870-42879.	4.0	30
14	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
15	Oxygen reduction reaction of vertically-aligned nanoporous Ag nanowires. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120586.	10.8	20
16	Visualization of Transition Metal Decoration on h-BN Surface. <i>Nano Letters</i> , 2021, 21, 10562-10569.	4.5	5
17	Comparison of Antioxidant and Physiological Activities of Processed Waters Generated during Red Bean Paste Preparation. <i>Journal of the Korean Society of Food Science and Nutrition</i> , 2021, 50, 1168-1176.	0.2	1
18	Phase-tuned nanoporous vanadium pentoxide as binder-free cathode for lithium ion battery. <i>Electrochimica Acta</i> , 2020, 330, 135192.	2.6	17

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19	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
20	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
21	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
22	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
23	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
24	Self-activated anodic nanoporous stainless steel electrocatalysts with high durability for the hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2020, 364, 137315.	2.6	26
25	Extremely fast electrochromic supercapacitors based on mesoporous WO ₃ prepared by an evaporation-induced self-assembly. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	76
26	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
27	Ag layer deposited on Zn by physical vapor deposition with enhanced CO selectivity for electrochemical CO ₂ reduction. <i>Applied Surface Science</i> , 2020, 526, 146651.	3.1	26
28	Cu-Based Thermoelectrochemical Cells for Direct Conversion of Low-Grade Waste Heat into Electricity. <i>ACS Applied Energy Materials</i> , 2020, 3, 6383-6390.	2.5	26
29	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
30	Selective electrocatalysis imparted by metal-insulator transition for durability enhancement of automotive fuel cells. <i>Nature Catalysis</i> , 2020, 3, 639-648.	16.1	79
31	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
32	Electrocatalyst design for promoting two-electron oxygen reduction reaction: Isolation of active site atoms. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 109-116.	2.5	39
33	Inverse-direction Growth of TiO ₂ Microcones by Subsequent Anodization in HClO ₄ for Increased Performance of Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 1248-1255.	1.7	3
34	Atomically dispersed Pt-N ₄ sites as efficient and selective electrocatalysts for the chlorine evolution reaction. <i>Nature Communications</i> , 2020, 11, 412.	5.8	154
35	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
36	Effects of the Ultrasound Treatment on Reaction Rates in the RH Processor Water Model System. <i>Metals and Materials International</i> , 2019, 25, 238-247.	1.8	3

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37	Tempcore Process Simulator to Analyze Microstructural Evolution of Quenched and Tempered Rebar. Applied Sciences (Switzerland), 2019, 9, 2938.	1.3	10
38	A double raster laser scanning strategy for rapid die-less bending of 3D shape. Journal of Materials Research and Technology, 2019, 8, 4741-4756.	2.6	15
39	Enhanced rate capability due to highly active Ta ₂ O ₅ catalysts for lithium sulfur batteries. Journal of Power Sources, 2019, 435, 226707.	4.0	21
40	Polyethylenimine-assisted Synthesis of Au Nanoparticles for Efficient Syngas Production. Electroanalysis, 2019, 31, 1401-1408.	1.5	12
41	Simulation Perspectives of Sub-1V Single-Supply Z ² -FET 1T-DRAM Cells for Low-Power. IEEE Access, 2019, 7, 40279-40284.	2.6	8
42	Critical role of elemental copper for enhancing conversion kinetics of sulphur cathodes in rechargeable magnesium batteries. Applied Surface Science, 2019, 484, 933-940.	3.1	22
43	Anion additives in rapid breakdown anodization for nonmetal-doped TiO ₂ nanotube powders. Electrochemistry Communications, 2019, 109, 106610.	2.3	12
44	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
45	CO ₂ reforming of methane for H ₂ production in a membrane reactor as CO ₂ utilization: Computational fluid dynamics studies with a reactor geometry. International Journal of Hydrogen Energy, 2019, 44, 2298-2311.	3.8	27
46	Enhanced Activity for Oxygen Evolution Reaction of Nanoporous IrNi thin film Formed by Electrochemical Selective Etching Process. Journal of Electrochemical Science and Technology, 2019, 10, 402-407.	0.9	9
47	Cellular properties of the fermented microalgae <i>Pavlova</i> and its isolated active peptide in osteoblastic differentiation of MC3T3 cells. Molecular Medicine Reports, 2018, 17, 2044-2050.	1.1	8
48	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
49	Current Collapse-Free and Self-Heating Performances in Normally Off GaN Nanowire GAA-MOSFETs. IEEE Journal of the Electron Devices Society, 2018, 6, 354-359.	1.2	5
50	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
51	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
52	Polyselenide Anchoring Using Transition-Metal Disulfides for Enhanced Lithium-Selenium Batteries. Inorganic Chemistry, 2018, 57, 2149-2156.	1.9	19
53	Protective effect of polysaccharides from Celluclast-assisted extract of <i>Hizikia fusiforme</i> 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
54	Performance enhancement of molten carbonate-based direct carbon fuel cell (MC-DCFC) via adding mixed ionic-electronic conductors into Ni anode catalyst layer. Journal of Power Sources, 2018, 386, 28-33.	4.0	16

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55	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
56	Catalyst-Doped Anodic TiO ₂ Nanotubes: Binder-Free Electrodes for (Photo)Electrochemical Reactions. <i>Catalysts</i> , 2018, 8, 555.	1.6	30
57	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
58	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
59	Heterogeneous Catalysis for Lithium-Sulfur Batteries: Enhanced Rate Performance by Promoting Polysulfide Fragmentations. <i>ACS Energy Letters</i> , 2017, 2, 327-333.	8.8	174
60	An upper limit of Cr-doping level to Retain Zero-strain Characteristics of Li ₄ Ti ₅ O ₁₂ Anode Material for Li-ion Batteries. <i>Scientific Reports</i> , 2017, 7, 43335.	1.6	29
61	CO ₂ Electroreduction on Au/TiC: Enhanced Activity Due to Metal-Support Interaction. <i>ACS Catalysis</i> , 2017, 7, 2101-2106.	5.5	69
62	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
63	Highly active and selective Au thin layer on Cu polycrystalline surface prepared by galvanic displacement for the electrochemical reduction of CO ₂ to CO. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 211-215.	10.8	53
64	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
65	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
66	Hydrogen Oxidation-Selective Electrocatalysis by Fine Tuning of Pt Ensemble Sites to Enhance the Durability of Automotive Fuel Cells. <i>ChemSusChem</i> , 2017, 10, 489-493.	3.6	24
67	Extended Analysis of the Z ² -FET: Operation as Capacitorless eDRAM. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 4486-4491.	1.6	34
68	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
69	Shape-Controlled Synthesis of Dumbbell-like Pt ₃ O ₄ -MnO _x Nanoparticles by Governing the Reaction Kinetics. <i>ACS Omega</i> , 2017, 2, 8483-8489.	1.6	9
70	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
71	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
72	Platinum single atoms dispersed on carbon nanotubes as reusable catalyst for Suzuki coupling reaction. <i>Journal of Catalysis</i> , 2017, 352, 388-393.	3.1	46

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73	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
74	Pd-Sn Alloy Electrocatalysts for Interconversion Between Carbon Dioxide and Formate/Formic Acid. Journal of Nanoscience and Nanotechnology, 2017, 17, 7547-7555.	0.9	13
75	Fabrication of normally-off GaN nanowire gate-all-around FET with top-down approach. Applied Physics Letters, 2016, 109, .	1.5	23
76	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
77	Bifunctional Interface of Au and Cu for Improved CO ₂ Electroreduction. ACS Applied Materials & Interfaces, 2016, 8, 23022-23027.	4.0	93
78	Direct access to aggregation-free and small intermetallic nanoparticles in ordered, large-pore mesoporous carbon for an electrocatalyst. RSC Advances, 2016, 6, 88255-88264.	1.7	12
79	Protective effects of polysaccharides from Psidium guajava leaves against oxidative stresses. International Journal of Biological Macromolecules, 2016, 91, 804-811.	3.6	43
80	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
81	Shaped Ir-Ni bimetallic nanoparticles for minimizing Ir utilization in oxygen evolution reaction. Chemical Communications, 2016, 52, 5641-5644.	2.2	78
82	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
83	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	7
84	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
85	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
86	Effect of a Surface Area and a d-Band Oxidation State on the Activity and Stability of RuOx Electrocatalysts for Oxygen Evolution Reaction. Bulletin of the Korean Chemical Society, 2015, 36, 1874-1877.	1.0	4
87	Enhanced Oxygen Reduction Reaction Activity Due to Electronic Effects between Ag and Mn ₃ O ₄ in Alkaline Media. ACS Catalysis, 2015, 5, 3995-4002.	5.5	115
88	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
89	Analysis of the origin of periodic oscillatory flow in the continuous casting mold. Metals and Materials International, 2015, 21, 295-302.	1.8	7
90	A Mo-doped TiNb ₂ O ₇ anode for lithium-ion batteries with high rate capability due to charge redistribution. Chemical Communications, 2015, 51, 9849-9852.	2.2	125

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91	Electrochemical Characteristic Change of Cr-doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ due to Different Water Solubility of Dopant Precursors. <i>Journal of the Korean Electrochemical Society</i> , 2015, 18, 17-23.	0.1	0
92	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
93	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
94	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
95	Activity-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
96	Using Surface Segregation To Design Stable Ru Oxides for the Oxygen Evolution Reaction in Acidic Environments. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14016-14021.	7.2	331
97	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
98	Enhancing Ni anode performance via Gd_2O_3 addition in molten carbonate-type direct carbon fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16541-16547.	3.8	21
99	Compressive strain as the main origin of enhanced oxygen reduction reaction activity for Pt electrocatalysts on chromium-doped titania support. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 112-118.	10.8	50
100	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
101	Stabilization of Oxygen-deficient Structure for Conducting $\text{Li}_4\text{Ti}_5\text{O}_{12}$ by Molybdenum Doping in a Reducing Atmosphere. <i>Scientific Reports</i> , 2014, 4, 4350.	1.6	85
102	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
103	Seahorse-derived peptide suppresses invasive migration of HT1080 fibrosarcoma cells by competing with intracellular tPA -enolase for plasminogen binding and inhibiting uPA-mediated activation of plasminogen. <i>BMB Reports</i> , 2014, 47, 691-696.	1.1	6
104	The cycling performances of lithium-sulfur batteries in TEGDME/DOL containing LiNO_3 additive. <i>Ionics</i> , 2013, 19, 1795-1802.	1.2	35
105	Enhanced corrosion resistance and fuel cell performance of Al1050 bipolar plate coated with TiN/Ti double layer. <i>Energy Conversion and Management</i> , 2013, 75, 727-733.	4.4	25
106	Controlled synthesis of $\text{La}_{1-x}\text{Sr}_x\text{CrO}_3$ 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
107	Free standing acetylene black mesh to capture dissolved polysulfide in lithium sulfur batteries. <i>Chemical Communications</i> , 2013, 49, 11107.	2.2	74
108	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

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109	Block Copolymer-Assisted One-Pot Synthesis of Ordered Mesoporous WO ₃ /Carbon Nanocomposites as High-Rate-Performance Electrodes for Pseudocapacitors. <i>Advanced Functional Materials</i> , 2013, 23, 3747-3754.	7.8	145
110	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
111	Strong Interaction between Pt and Thiolated Carbon for Electrocatalytic Durability Enhancement. <i>ACS Catalysis</i> , 2013, 3, 3067-3074.	5.5	34
112	Enhanced Gas Sensing Performance of Hydrophilic Graphite Nanoparticles Synthesized by Liquid Phase Pulsed Laser Ablation. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7020-7024.	0.9	1
113	Characteristic Corrosion Resistance of Nanocrystalline TiN Films Prepared by High Density Plasma Reactive Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4601-4607.	0.9	0
114	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
115	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
116	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} W ₂ O 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
117	Fabrication of hierarchical ZnO nanostructures for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 78, 417-421.	2.6	42
118	Bioactive Compounds Extracted from <i>Ecklonia cava</i> by Using Enzymatic Hydrolysis Protects High Glucose-Induced Damage in INS-1 Pancreatic β ² -Cells. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1973-1985.	1.4	17
119	Site-Specific Transition Metal Occupation in Multicomponent Pyrophosphate for Improved Electrochemical and Thermal Properties in Lithium Battery Cathodes: A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 11740-11748.	6.6	37
120	Prevention of oxidative stress in Chang liver cells by gallic acid-grafted-chitosans. <i>Carbohydrate Polymers</i> , 2012, 87, 876-880.	5.1	26
121	Phase change of bimetallic PdCo electrocatalysts caused by different heat-treatment temperatures: Effect on oxygen reduction reaction activity. <i>Journal of Catalysis</i> , 2012, 290, 65-78.	3.1	28
122	Enhanced electrocatalytic performance due to anomalous compressive strain and superior electron retention properties of highly porous Pt nanoparticles. <i>Journal of Catalysis</i> , 2012, 291, 69-78.	3.1	29
123	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
124	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
125	Electrochemical Properties of Li _{1.1} V _{0.75} W _{0.075} Mo _{0.075} O ₂ /Graphite Composite Anodes for Lithium-ion Batteries. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 65-68.	1.0	4
126	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

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127	Hydrophilic Graphite Nanoparticles Synthesized by Liquid Phase Pulsed Laser Ablation and Their Carbon-composite Sensor Application. <i>Journal of the Korean Electrochemical Society</i> , 2012, 15, 236-241.	0.1	0
128	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
129	Isolation and identification of an antioxidant flavonoid compound from citrus-processing by-product. <i>Journal of the Science of Food and Agriculture</i> , 2011, 91, 1925-1927.	1.7	42
130	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. <i>Journal of the Korean Electrochemical Society</i> , 2011, 14, 33-37.	0.1	1
131	Electrochemical Immunosensor Using a Gas Diffusion Layer as an Immobilization Matrix. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 1975-1979.	1.0	0
132	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
133	Additive treatment effect of TiO ₂ as supports for Pt-based electrocatalysts on oxygen reduction reaction activity. <i>Electrochimica Acta</i> , 2010, 55, 3628-3633.	2.6	81
134	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
135	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
136	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
137	Platinum dendrites with controlled sizes for oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2010, 12, 1596-1599.	2.3	49
138	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
139	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
140	PtRu nano-dandelions on thiolated carbon nanotubes: a new synthetic strategy for supported bimetallic core-shell clusters on the atomic scale. <i>Chemical Communications</i> , 2010, 46, 2085.	2.2	29
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