Yung-Eun Sung

List of Publications by Year
in descending order

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500 papers	28,316 citations	4653 85 h-index	9579 142 g-index
513 all docs	513 docs citations	513 times ranked	27093 citing authors

#	Article	IF	Citations
1	The use of elemental sulfur as an alternative feedstock for polymeric materials. Nature Chemistry, 2013, 5, 518-524.	6.6	1,046
2	Chemical and Electronic Effects of Ni in Pt/Ni and Pt/Ru/Ni Alloy Nanoparticles in Methanol Electrooxidation. Journal of Physical Chemistry B, 2002, 106, 1869-1877.	1.2	799
3	Atomic-level tuning of Coâ€“Nâ€“C catalyst for high-performance electrochemical H2O2 production. Nature Materials, 2020, 19, 436-442.	13.3	725
4	Failure Modes of Silicon Powder Negative Electrode in Lithium Secondary Batteries. Electrochemical and Solid-State Letters, 2004, 7, A306.	2.2	576
5	Highly Durable and Active PtFe Nanocatalyst for Electrochemical Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 15478-15485.	6.6	517
6	Galvanic Replacement Reactions in Metal Oxide Nanocrystals. Science, 2013, 340, 964-968.	6.0	472
7	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. Journal of the American Chemical Society, 2017, 139, 6669-6674.	6.6	451
8	Conversion Reactionâ€Based Oxide Nanomaterials for Lithium Ion Battery Anodes. Small, 2016, 12, 2146-2172.	5.2	405
9	Design Principle of Feâ€“Nâ€“C Electrocatalysts: How to Optimize Multimodal Porous Structures?. Journal of the American Chemical Society, 2019, 141, 2035-2045.	6.6	383
10	Self-Assembled Fe₃O₄ Nanoparticle Clusters as High-Performance Anodes for Lithium Ion Batteries via Geometric Confinement. Nano Letters, 2013, 13, 4249-4256.	4.5	334
11	Ordered Porous Carbons with Tunable Pore Sizes as Catalyst Supports in Direct Methanol Fuel Cell. Journal of Physical Chemistry B, 2004, 108, 7074-7079.	1.2	323
12	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Liâ€“S Battery. Advanced Energy Materials, 2017, 7, 1602567.	10.2	309
13	High-Performance Direct Methanol Fuel Cell Electrodes using Solid-Phase-Synthesized Carbon Nanocoils. Angewandte Chemie - International Edition, 2003, 42, 4352-4356.	7.2	286
14	Inverse Vulcanization of Elemental Sulfur to Prepare Polymeric Electrode Materials for Liâ€“S Batteries. ACS Macro Letters, 2014, 3, 229-232.	2.3	279
15	Methanol Electro-Oxidation on the Pt Surface: Revisiting the Cyclic Voltammetry Interpretation. Journal of Physical Chemistry C, 2016, 120, 9028-9035.	1.5	270
16	Pt-based nanoarchitecture and catalyst design for fuel cell applications. Nano Today, 2014, 9, 433-456.	6.2	267
17	Edge-exposed MoS₂nano-assembled structures as efficient electrocatalysts for hydrogen evolution reaction. Nanoscale, 2014, 6, 2131-2136.	2.8	260
18	Investigation of the Structural and Electrochemical Properties of Size-Controlled SnO2 Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 9815-9820.	1.2	258

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19	Electrochemical Synthesis of NH₃ at Low Temperature and Atmospheric Pressure Using a Î³-Fe₂O₃ Catalyst. ACS Sustainable Chemistry and Engineering, 2017, 5, 10986-10995.	3.2	236
20	Ordered macroporous platinum electrode and enhanced mass transfer in fuel cells using inverse opal structure. Nature Communications, 2013, 4, 2473.	5.8	229
21	Electrocatalytic activity and stability of Pt supported on Sb-doped SnO2 nanoparticles for direct alcohol fuel cells. Journal of Catalysis, 2008, 258, 143-152.	3.1	228
22	Electro-oxidation of methanol and formic acid on PtRu and PtAu for direct liquid fuel cells. Journal of Power Sources, 2006, 163, 71-75.	4.0	222
23	Role of Electronic Perturbation in Stability and Activity of Pt-Based Alloy Nanocatalysts for Oxygen Reduction. Journal of the American Chemical Society, 2012, 134, 19508-19511.	6.6	219
24	Surface Modification of Stretched TiO2Nanotubes for Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 9614-9623.	1.5	218
25	Highly Durable and Active Ptâ€Based Nanoscale Design forÂFuelâ€Cell Oxygenâ€Reduction Electrocatalysts. Advanced Materials, 2018, 30, e1704123.	11.1	208
26	Y[sub 3]Al[sub 5]O[sub 12]:Ce[sub 0.05] Phosphor Coatings on Gallium Nitride for White Light Emitting Diodes. Journal of the Electrochemical Society, 2003, 150, H47.	1.3	192
27	Facile scalable synthesis of magnetitenanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries. Chemical Communications, 2010, 46, 118-120.	2.2	192
28	Origin of the Enhanced Catalytic Activity of Carbon Nanocoil-Supported PtRu Alloy Electrocatalysts. Journal of Physical Chemistry B, 2004, 108, 939-944.	1.2	185
29	Recent Advances in Electrochemical Oxygen Reduction to H₂O₂: Catalyst and Cell Design. ACS Energy Letters, 2020, 5, 1881-1892.	8.8	185
30	High-performance anion-exchange membrane water electrolysis. Electrochimica Acta, 2019, 295, 99-106.	2.6	182
31	Highly selective lithium recovery from brine using a Î»-MnO2â€“Ag battery. Physical Chemistry Chemical Physics, 2013, 15, 7690.	1.3	164
32	Poly(carbazole)-based anion-conducting materials with high performance and durability for energy conversion devices. Energy and Environmental Science, 2020, 13, 3633-3645.	15.6	162
33	Direct Synthesis of Intermetallic Platinumâ€“Alloy Nanoparticles Highly Loaded on Carbon Supports for Efficient Electrocatalysis. Journal of the American Chemical Society, 2020, 142, 14190-14200.	6.6	160
34	A highly durable carbon-nanofiber-supported Ptâ€“C coreâ€“shell cathode catalyst for ultra-low Pt loading proton exchange membrane fuel cells: facile carbon encapsulation. Energy and Environmental Science, 2019, 12, 2820-2829.	15.6	158
35	Hyaluronic Acidâ^'Quantum Dot Conjugates for In Vivo Lymphatic Vessel Imaging. ACS Nano, 2009, 3, 1389-1398.	7.3	157
36	Lithium recovery from brine using a Î»-MnO2/activated carbon hybrid supercapacitor system. Chemosphere, 2015, 125, 50-56.	4.2	154

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37	In Situ Hydrothermal Synthesis of Mn3O4 Nanoparticles on Nitrogen-doped Graphene as High-Performance Anode materials for Lithium Ion Batteries. Electrochimica Acta, 2014, 120, 452-459.	2.6	145
38	Electrochemical behavior of carbon-coated SnS2 for use as the anode in lithium-ion batteries. Electrochimica Acta, 2009, 54, 3606-3610.	2.6	143
39	Structural, Chemical, and Electronic Properties of Pt/Ni Thin Film Electrodes for Methanol Electrooxidation. Journal of Physical Chemistry B, 2003, 107, 5851-5856.	1.2	141
40	Nanoparticle Synthesis and Electrocatalytic Activity of Pt Alloys for Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2002, 149, A1299.	1.3	140
41	Methanol Oxidation on Pt/Ru, Pt/Ni, and Pt/Ru/Ni Anode Electrocatalysts at Different Temperatures for DMFCs. Journal of the Electrochemical Society, 2003, 150, A973.	1.3	134
42	A Pd-impregnated nanocomposite Nafion membrane for use in high-concentration methanol fuel in DMFC. Electrochemistry Communications, 2003, 5, 571-574.	2.3	131
43	PtRuRhNi nanoparticle electrocatalyst for methanol electrooxidation in direct methanol fuel cell. Journal of Catalysis, 2004, 224, 236-242.	3.1	130
44	The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Liâ€S Batteries. Advanced Energy Materials, 2017, 7, 1700074.	10.2	127
45	Surface Structure of Pt-Modified Au Nanoparticles and Electrocatalytic Activity in Formic Acid Electro-Oxidation. Journal of Physical Chemistry C, 2007, 111, 19126-19133.	1.5	126
46	Uniform hematite nanocapsules based on an anode material for lithium ion batteries. Electrochemistry Communications, 2010, 12, 382-385.	2.3	125
47	Exploiting Lithiumâ€“Ether Coâ€Intercalation in Graphite for Highâ€Power Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1700418.	10.2	122
48	Solvothermalâ€Derived Sâ€Doped Graphene as an Anode Material for Sodiumâ€Ion Batteries. Advanced Science, 2018, 5, 1700880.	5.6	122
49	Structure dependent active sites of Ni_xS_y as electrocatalysts for hydrogen evolution reaction. Nanoscale, 2015, 7, 5157-5163.	2.8	121
50	Copolymerization of Polythiophene and Sulfur To Improve the Electrochemical Performance in Lithiumâ€“Sulfur Batteries. Chemistry of Materials, 2015, 27, 7011-7017.	3.2	120
51	Single Source Precursor-based Solvothermal Synthesis of Heteroatom-doped Graphene and Its Energy Storage and Conversion Applications. Scientific Reports, 2014, 4, 5639.	1.6	120
52	A chemically activated graphene-encapsulated LiFePO4 composite for high-performance lithium ion batteries. Nanoscale, 2013, 5, 8647.	2.8	118
53	Biomass-Derived Air Cathode Materials: Pore-Controlled S,N-Co-doped Carbon for Fuel Cells and Metalâ€“Air Batteries. ACS Catalysis, 2019, 9, 3389-3398.	5.5	117
54	A facile hydrazine-assisted hydrothermal method for the deposition of monodisperse SnO₂nanoparticles onto graphene for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 2520-2525.	6.7	116

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55	Nano-composite of PtRu alloy electrocatalyst and electronically conducting polymer for use as the anode in a direct methanol fuel cell. Electrochimica Acta, 2003, 48, 2781-2789.	2.6	115
56	Soft-template synthesis of mesoporous non-precious metal catalyst with Fe-N x /C active sites for oxygen reduction reaction in fuel cells. Applied Catalysis B: Environmental, 2018, 222, 191-199.	10.8	115
57	Hybrid Cellular Nanosheets for High-Performance Lithium-Ion Battery Anodes. Journal of the American Chemical Society, 2015, 137, 11954-11961.	6.6	114
58	Simultaneous Phase- and Size-Controlled Synthesis of TiO2Nanorods via Non-Hydrolytic Solâˆ'Gel Reaction of Syringe Pump Delivered Precursors. Journal of Physical Chemistry B, 2006, 110, 24318-24323.	1.2	111
59	Facile and economical synthesis of hierarchical carbon-coated magnetite nanocomposite particles and their applications in lithium ion battery anodes. Energy and Environmental Science, 2012, 5, 9528.	15.6	111
60	Enhancing p-Type Thermoelectric Performances of Polycrystalline SnSe via Tuning Phase Transition Temperature. Journal of the American Chemical Society, 2017, 139, 10887-10896.	6.6	110
61	Design of structural and functional nanomaterials for lithium-sulfur batteries. Nano Today, 2018, 18, 35-64.	6.2	110
62	Continuous activation of Li2MnO3 component upon cycling in Li1.167Ni0.233Co0.100Mn0.467Mo0.033O2 cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 2833.	5.2	109
63	Elemental Sulfur and Molybdenum Disulfide Composites for Liâ€“S Batteries with Long Cycle Life and High-Rate Capability. ACS Applied Materials & Interfaces, 2016, 8, 13437-13448.	4.0	108
64	Electrophoretically deposited TiO2 photo-electrodes for use in flexible dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 173, 1-6.	2.0	106
65	PtRu Alloy and PtRuâˆ'WO3 Nanocomposite Electrodes for Methanol Electrooxidation Fabricated by a Sputtering Deposition Method. Journal of Physical Chemistry B, 2004, 108, 5989-5994.	1.2	105
66	Electrocatalytic activity of carbon-supported Ptâ€“Au nanoparticles for methanol electro-oxidation. Electrochimica Acta, 2007, 52, 5599-5605.	2.6	105
67	Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. NPG Asia Materials, 2016, 8, e272-e272.	3.8	105
68	Alveoliâ€Inspired Facile Transport Structure of Nâ€Doped Porous Carbon for Electrochemical Energy Applications. Advanced Energy Materials, 2015, 5, 1401309.	10.2	104
69	Differences in the Electrochemical Performance of Pt-Based Catalysts Used for Polymer Electrolyte Membrane Fuel Cells in Liquid Half- and Full-Cells. Chemical Reviews, 2021, 121, 15075-15140.	23.0	104
70	Flexible dye-sensitized solar cells using ZnO coated TiO2 nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 171, 269-273.	2.0	103
71	Pd-based PdPt(19:1)/C electrocatalyst as an electrode in PEM fuel cell. Electrochemistry Communications, 2007, 9, 378-381.	2.3	102
72	Methanol electro-oxidation and direct methanol fuel cell using Pt/Rh and Pt/Ru/Rh alloy catalysts. Electrochimica Acta, 2004, 50, 787-790.	2.6	101

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73	Characteristics of PVdF copolymer/Nafion blend membrane for direct methanol fuel cell (DMFC). Electrochimica Acta, 2004, 50, 583-588.	2.6	100
74	A facile and green strategy for the synthesis of MoS2 nanospheres with excellent Li-ion storage properties. CrystEngComm, 2012, 14, 8323.	1.3	98
75	Blue TiO2 Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. Electrochimica Acta, 2014, 141, 113-119.	2.6	98
76	Electrocatalytic enhancement of methanol oxidation by graphite nanofibers with a high loading of PtRu alloy nanoparticles. Carbon, 2007, 45, 28-33.	5.4	97
77	Highly dispersed Pt nanoparticles on nitrogen-doped magnetic carbon nanoparticles and their enhanced activity for methanol oxidation. Carbon, 2007, 45, 2496-2501.	5.4	97
78	Electrocatalytic Enhancement of Methanol Oxidation at Ptâ^'WOxNanophase Electrodes and In-Situ Observation of Hydrogen Spillover Using Electrochromism. Journal of Physical Chemistry B, 2003, 107, 4352-4355.	1.2	96
79	Structureâ€Properties Relationship in Iron Oxideâ€Reduced Graphene Oxide Nanostructures for Liâ€Ion Batteries. Advanced Functional Materials, 2013, 23, 4293-4305.	7.8	96
80	Fast switchable electrochromic properties of tungsten oxide nanowire bundles. Applied Physics Letters, 2007, 90, 173126.	1.5	95
81	Enhanced stability and activity of Ptâ€“Y alloy catalysts for electrocatalytic oxygen reduction. Chemical Communications, 2011, 47, 11414.	2.2	94
82	Co-sensitization of vertically aligned TiO2 nanotubes with two different sizes of CdSe quantum dots for broad spectrum. Electrochemistry Communications, 2008, 10, 1579-1582.	2.3	93
83	Three-dimensional carbon foam/N-doped graphene@MoS₂hybrid nanostructures as effective electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 12720-12725.	5.2	93
84	Tandem dye-sensitized solar cell-powered electrochromic devices for the photovoltaic-powered smart window. Journal of Power Sources, 2007, 168, 533-536.	4.0	92
85	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T1 MRI Contrast Agents. Chemistry of Materials, 2011, 23, 3318-3324.	3.2	92
86	Understanding the Bifunctional Effect for Removal of CO Poisoning: Blend of a Platinum Nanocatalyst and Hydrous Ruthenium Oxide as a Model System. ACS Catalysis, 2016, 6, 2398-2407.	5.5	86
87	Carbon Shell on Active Nanocatalyst for Stable Electrocatalysis. Accounts of Chemical Research, 2022, 55, 1278-1289.	7.6	86
88	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. Journal of the American Chemical Society, 2018, 140, 16676-16684.	6.6	85
89	A study on electrode fabrication and operation variables affecting the performance of anion exchange membrane water electrolysis. Journal of Industrial and Engineering Chemistry, 2019, 76, 410-418.	2.9	85
90	A PtAu Nanoparticle Electrocatalyst for Methanol Electro-oxidation in Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2006, 153, A1812.	1.3	84

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91	Surfactant-free nonaqueous synthesis of lithium titanium oxide (LTO) nanostructures for lithium ion battery applications. Journal of Materials Chemistry, 2011, 21, 806-810.	6.7	83
92	Characterization of electrodeposited CuInSe2 (CIS) film. Electrochimica Acta, 2006, 51, 4433-4438.	2.6	80
93	Epitaxially Strained CeO₂/Mn₃O₄ Nanocrystals as an Enhanced Antioxidant for Radioprotection. Advanced Materials, 2020, 32, e2001566.	11.1	79
94	Promoting effects of La for improved oxygen reduction activity and high stability of Pt on Ptâ€“La alloy electrodes. Energy and Environmental Science, 2012, 5, 7521.	15.6	78
95	Reactively sputtered nickel nitride as electrocatalytic counter electrode for dye- and quantum dot-sensitized solar cells. Scientific Reports, 2015, 5, 10450.	1.6	78
96	Na⁺/Vacancy Disordered P2-Na_{0.67}Co_{1â€“x}Ti_xO₂: High-Energy and High-Power Cathode Materials for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 3562-3570.	4.0	78
97	Synthesis of size-controlled CdSe quantum dots and characterization of CdSeâ€“conjugated polymer blends for hybrid solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 179, 135-141.	2.0	77
98	Inhibition of CO poisoning on Pt catalyst coupled with the reduction of toxic hexavalent chromium in a dual-functional fuel cell. Scientific Reports, 2014, 4, 7450.	1.6	77
99	A one-pot microwave-assisted non-aqueous solâ€“gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. RSC Advances, 2011, 1, 1687.	1.7	75
100	Effect of platinum amount in carbon supported platinum catalyst on performance of polymer electrolyte membrane fuel cell. Journal of Power Sources, 2007, 172, 89-93.	4.0	74
101	Influence of light scattering particles in the TiO2 photoelectrode for solid-state dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 294-300.	2.0	74
102	Coffee Waste-Derived Hierarchical Porous Carbon as a Highly Active and Durable Electrocatalyst for Electrochemical Energy Applications. ACS Applied Materials & Interfaces, 2017, 9, 41303-41313.	4.0	74
103	Influence of Oxide on the Oxygen Reduction Reaction of Carbon-Supported Ptâ^'Ni Alloy Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 19732-19739.	1.5	72
104	Preparation of Highly Ordered Mesoporous Al₂O₃/TiO₂ and Its Application in Dye-Sensitized Solar Cells. Langmuir, 2010, 26, 2864-2870.	1.6	72
105	Coadsorption of sulfate anions and silver adatoms on the Au(111) single crystal electrode. Ex situ and in situ comparison. Electrochimica Acta, 1995, 40, 17-28.	2.6	71
106	Formation and mechanistic study of self-ordered TiO2 nanotubes on Ti substrate. Journal of Industrial and Engineering Chemistry, 2008, 14, 52-59.	2.9	71
107	Hollow Nanostructured Metal Silicates with Tunable Properties for Lithium Ion Battery Anodes. ACS Applied Materials & Interfaces, 2015, 7, 25725-25732.	4.0	71
108	Suppressive effect of Li2CO3 on initial irreversibility at carbon anode in Li-ion batteries. Journal of Power Sources, 2002, 104, 132-139.	4.0	70

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109	Development of Highly Stable and Mass Transferâ€Enhanced Cathode Catalysts: Supportâ€Free Electrospun Intermetallic FePt Nanotubes for Polymer Electrolyte Membrane Fuel Cells. Advanced Energy Materials, 2015, 5, 1402093.	10.2	70
110	Ultra-low loading of IrO2 with an inverse-opal structure in a polymer-exchange membrane water electrolysis. Nano Energy, 2019, 58, 158-166.	8.2	70
111	High contrast ratio and fast switching polymeric electrochromic films based on water-dispersible polyaniline-poly(4-styrenesulfonate) nanoparticles. Electrochemistry Communications, 2010, 12, 164-167.	2.3	69
112	Multiplex lithography for multilevel multiscale architectures and its application to polymer electrolyte membrane fuel cell. Nature Communications, 2015, 6, 8484.	5.8	69
113	PtRh alloy nanoparticle electrocatalysts for oxygen reduction for use in direct methanol fuel cells. Journal of Power Sources, 2006, 163, 82-86.	4.0	68
114	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 6583-6588.	7.2	66
115	All-solid-state electrochromic device composed of WO3 and Ni(OH)2 with a Ta2O5 protective layer. Applied Physics Letters, 2002, 81, 3930-3932.	1.5	64
116	High Contrast Ratio and Rapid Switching Organic Polymeric Electrochromic Thin Films Based on Triarylamine Derivatives from Layer-by-Layer Assembly. Chemistry of Materials, 2006, 18, 5823-5825.	3.2	64
117	All-solid-state supercapacitor using a NafionÂ® polymer membrane and its hybridization with a direct methanol fuel cell. Journal of Power Sources, 2002, 109, 500-506.	4.0	63
118	TiO₂nanotubes with a ZnO thin energy barrier for improved current efficiency of CdSe quantum-dot-sensitized solar cells. Nanotechnology, 2009, 20, 335706.	1.3	63
119	Electronic structure modification of platinum on titanium nitride resulting in enhanced catalytic activity and durability for oxygen reduction and formic acid oxidation. Applied Catalysis B: Environmental, 2015, 174-175, 35-42.	10.8	63
120	Enhancement of mass transport in fuel cells using three-dimensional graphene foam as flow field. Electrochimica Acta, 2018, 265, 488-496.	2.6	63
121	New RuO2 and carbonâ€“RuO2 composite diffusion layer for use in direct methanol fuel cells. Journal of Power Sources, 2002, 109, 439-445.	4.0	62
122	Influence of hydrophilicity in micro-porous layer for polymer electrolyte membrane fuel cells. Electrochimica Acta, 2011, 56, 2450-2457.	2.6	62
123	Thermal stability of charged LiNi0.5Co0.2Mn0.3O2 cathode for Li-ion batteries investigated by synchrotron based in situ X-ray diffraction. Journal of Alloys and Compounds, 2013, 562, 219-223.	2.8	62
124	Graphitic carbon nitride-carbon nanofiber as oxygen catalyst in anion-exchange membrane water electrolyzer and rechargeable metalâ€“air cells. Applied Catalysis B: Environmental, 2018, 237, 140-148.	10.8	62
125	Bi-modified Pt supported on carbon black as electro-oxidation catalyst for 300 W formic acid fuel cell stack. Applied Catalysis B: Environmental, 2019, 253, 187-195.	10.8	60
126	Cross-linked highly sulfonated poly(arylene ether sulfone) membranes prepared by in-situ casting and thiol-ene click reaction for fuel cell application. Journal of Membrane Science, 2019, 579, 70-78.	4.1	60

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127	Influence of Au contents of AuPt anode catalyst on the performance of direct formic acid fuel cell. Electrochimica Acta, 2008, 53, 3474-3478.	2.6	59
128	Porous cobalt oxide thin films from low temperature solution phase synthesis for electrochromic electrode. Thin Solid Films, 2008, 516, 8573-8578.	0.8	59
129	Enhanced photocurrent of nitrogen-doped TiO2 film for dye-sensitized solar cells. Materials Chemistry and Physics, 2010, 124, 422-426.	2.0	59
130	Supported Core@Shell Electrocatalysts for Fuel Cells: Close Encounter with Reality. Scientific Reports, 2013, 3, 1309.	1.6	59
131	Highly loaded PbS/Mn-doped CdS quantum dots for dual application in solar-to-electrical and solar-to-chemical energy conversion. Applied Catalysis B: Environmental, 2018, 227, 409-417.	10.8	59
132	Color-switchable electrochromic Co(OH)2/Ni(OH)2 nanofilms with ultrafast kinetics for multifunctional smart windows. Nano Energy, 2020, 72, 104720.	8.2	59
133	Design and synthesis of multigrain nanocrystals via geometric misfit strain. Nature, 2020, 577, 359-363.	13.7	59
134	High-performance proton-exchange membrane water electrolysis using a sulfonated poly(arylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.1	59
135	Surface morphological, microstructural, and electrochromic properties of short-range ordered and crystalline nickel oxide thin films. Applied Surface Science, 2002, 199, 259-269.	3.1	58
136	Enhanced Photovoltaic Properties of a Cobalt Bipyridyl Redox Electrolyte in Dye-Sensitized Solar Cells Employing Vertically Aligned TiO₂ Nanotube Electrodes. Journal of Physical Chemistry C, 2011, 115, 19979-19985.	1.5	58
137	Enhanced efficiency of dye-sensitized solar cells through TiCl4-treated, nanoporous-layer-covered TiO2 nanotube arrays. Journal of Power Sources, 2011, 196, 8904-8908.	4.0	58
138	Organic-inorganic hybrid PtCo nanoparticle with high electrocatalytic activity and durability for oxygen reduction. NPG Asia Materials, 2016, 8, e237-e237.	3.8	57
139	Columnar rutile TiO2 based dye-sensitized solar cells by radio-frequency magnetron sputtering. Journal of Power Sources, 2008, 184, 331-335.	4.0	56
140	Performance enhancement of polymer electrolyte membrane fuel cell by employing line-patterned Nafion membrane. Journal of Industrial and Engineering Chemistry, 2012, 18, 876-879.	2.9	56
141	Heterogeneous Suzuki Cross-Coupling Reaction Catalyzed by Magnetically Recyclable Nanocatalyst. Bulletin of the Korean Chemical Society, 2013, 34, 1477-1480.	1.0	56
142	Preparation and charateristics of Nafion membrane coated with a PVdF copolymer/recast Nafion blend for direct methanol fuel cell. Journal of Power Sources, 2006, 159, 524-528.	4.0	55
143	Tailoring the Electronic Structure of Nanoelectrocatalysts Induced by a Surface-Capping Organic Molecule for the Oxygen Reduction Reaction. Journal of Physical Chemistry Letters, 2013, 4, 1304-1309.	2.1	55
144	Nitrogen and boron co-doped hollow carbon catalyst for the oxygen reduction reaction. Carbon, 2016, 105, 1-7.	5.4	55

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145	Low-Temperature and Gram-Scale Synthesis of Two-Dimensional Feâ€“Nâ€“C Carbon Sheets for Robust Electrochemical Oxygen Reduction Reaction. Chemistry of Materials, 2017, 29, 2890-2898.	3.2	55
146	Photo and Electrochemical Characteristics Dependent on the Phase Ratio of Nanocolumnar Structured TiO₂ Films by RF Magnetron Sputtering Technique. Chemistry of Materials, 2009, 21, 2777-2788.	3.2	54
147	Facile and Gram-scale Synthesis of Metal-free Catalysts: Toward Realistic Applications for Fuel Cells. Scientific Reports, 2015, 5, 8376.	1.6	54
148	Factors in electrode fabrication for performance enhancement of anion exchange membrane water electrolysis. Journal of Power Sources, 2017, 347, 283-290.	4.0	54
149	Role and Potential of Metal Sulfide Catalysts in Lithiumâ€Sulfur Battery Applications. ChemCatChem, 2019, 11, 2373-2387.	1.8	54
150	Revisiting the strategies for stabilizing lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 13874-13895.	5.2	54
151	Facile synthesis of highly active and stable Ptâ€“Ir/C electrocatalysts for oxygen reduction and liquid fuel oxidation reaction. Chemical Communications, 2010, 46, 8401.	2.2	53
152	Ptâ€“WOx electrode structure for thin-film fuel cells. Applied Physics Letters, 2002, 81, 907-909.	1.5	52
153	Promotional Effect of Palladium on the Hydrogen Oxidation Reaction at a PtPd Alloy Electrode. Angewandte Chemie - International Edition, 2008, 47, 9307-9310.	7.2	51
154	PtPdCo ternary electrocatalyst for methanol tolerant oxygen reduction reaction in direct methanol fuel cell. Applied Catalysis B: Environmental, 2014, 154-155, 309-315.	10.8	51
155	Scaffold-Like Titanium Nitride Nanotubes with a Highly Conductive Porous Architecture as a Nanoparticle Catalyst Support for Oxygen Reduction. ACS Catalysis, 2016, 6, 3914-3920.	5.5	51
156	Bismuth oxide as a high capacity anode material for sodium-ion batteries. Chemical Communications, 2016, 52, 11775-11778.	2.2	51
157	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. Angewandte Chemie, 2017, 129, 6683-6688.	1.6	51
158	Enhancement of service life of polymer electrolyte fuel cells through application of nanodispersed ionomer. Science Advances, 2020, 6, eaaw0870.	4.7	51
159	Spindle-like Fe7S8/N-doped carbon nanohybrids for high-performance sodium ion battery anodes. Nano Research, 2019, 12, 695-700.	5.8	50
160	High-performance and durable water electrolysis using a highly conductive and stable anion-exchange membrane. International Journal of Hydrogen Energy, 2022, 47, 9115-9126.	3.8	50
161	Operando Visualization of Morphological Evolution in Mg Metal Anode: Insight into Dendrite Suppression for Stable Mg Metal Batteries. ACS Energy Letters, 2022, 7, 162-170.	8.8	50
162	Characterization of the Structures of Size-Selected TiO2 Nanoparticles Using X-Ray Absorption Spectroscopy. Applied Spectroscopy, 2004, 58, 598-602.	1.2	49

#	Article	IF	Citations
163	Role of surface state on the electron flow in modified TiO2 film incorporating carbon powder for a dye-sensitized solar cell. Electrochimica Acta, 2007, 52, 5242-5250.	2.6	49
164	Next-Generation Polymer-Electrolyte-Membrane Fuel Cells Using Titanium Foam as Gas Diffusion Layer. ACS Applied Materials & Interfaces, 2014, 6, 7665-7671.	4.0	49
165	Enhanced Methanol Tolerance of Highly Pd rich Pd-Pt Cathode Electrocatalysts in Direct Methanol Fuel Cells. Electrochimica Acta, 2015, 164, 235-242.	2.6	49
166	Guided cracking of electrodes by stretching prism-patterned membrane electrode assemblies for high-performance fuel cells. Scientific Reports, 2018, 8, 1257.	1.6	49
167	Nitrogen and sulfur co-doped graphene-like carbon sheets derived from coir pith bio-waste for symmetric supercapacitor applications. Journal of Applied Electrochemistry, 2019, 49, 57-66.	1.5	49
168	Activityâ€“Stability Relationship in Au@Pt Nanoparticles for Electrocatalysis. ACS Energy Letters, 2020, 5, 2827-2834.	8.8	49
169	3D macroporous electrode and high-performance in lithium-ion batteries using SnO2 coated on Cu foam. Scientific Reports, 2016, 6, 18626.	1.6	48
170	Pt3Y electrocatalyst for oxygen reduction reaction in proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2012, 37, 9758-9765.	3.8	47
171	A simple synthesis of urchin-like Ptâ€“Ni bimetallic nanostructures as enhanced electrocatalysts for the oxygen reduction reaction. Chemical Communications, 2016, 52, 597-600.	2.2	47
172	Electrochemically Synthesized Nanoporous Molybdenum Carbide as a Durable Electrocatalyst for Hydrogen Evolution Reaction. Advanced Science, 2018, 5, 1700601.	5.6	47
173	Marginal Magnesium Doping for Highâ€Performance Lithium Metal Batteries. Advanced Energy Materials, 2019, 9, 1902278.	10.2	47
174	Titanium Silicide Coated Porous Silicon Nanospheres as Anode Materials for Lithium Ion Batteries. Electrochimica Acta, 2015, 151, 256-262.	2.6	46
175	Methanol Tolerant Ptâ€“C Coreâ€“Shell Cathode Catalyst for Direct Methanol Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 44588-44596.	4.0	46
176	Achieving breakthrough performance caused by optimized metal foam flow field in fuel cells. International Journal of Hydrogen Energy, 2019, 44, 22074-22084.	3.8	45
177	A Review on Membranes and Catalysts for Anion Exchange Membrane Water Electrolysis Single Cells. Journal of Electrochemical Science and Technology, 2017, 8, 183-196.	0.9	45
178	Atomic Structure Modification of Feâ€'Nâ€'C Catalysts via Morphology Engineering of Graphene for Enhanced Conversion Kinetics of Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	7.8	45
179	Solid-state dye-sensitized TiO2 solar cells using poly(3,4-ethylenedioxythiophene) as substitutes of iodine/iodide electrolytes and noble metal catalysts on FTO counter electrodes. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 77-80.	2.0	44
180	Effect of Surface Segregation on the Methanol Oxidation Reaction in Carbon-Supported Ptâ'Ru Alloy Nanoparticles. Langmuir, 2010, 26, 9123-9129.	1.6	44

#	Article	IF	Citations
181	Hierarchical micro-lamella-structured 3D porous copper current collector coated with tin for advanced lithium-ion batteries. Applied Surface Science, 2017, 399, 132-138.	3.1	44
182	Changes in the oxidation state of Pt single-atom catalysts upon removal of chloride ligands and their effect for electrochemical reactions. Chemical Communications, 2019, 55, 6389-6392.	2.2	44
183	Enhancement of oxygen reduction reaction on PtAu nanoparticles via CO induced surface Pt enrichment. Applied Catalysis B: Environmental, 2013, 129, 375-381.	10.8	43
184	Cross-Linked Sulfonated Poly(arylene ether sulfone) Containing a Flexible and Hydrophobic Bishydroxy Perfluoropolyether Cross-Linker for High-Performance Proton Exchange Membrane. ACS Applied Materials & Interfaces, 2018, 10, 21788-21793.	4.0	43
185	Gas diffusion layer/flow-field unified membrane-electrode assembly in fuel cell using graphene foam. Electrochimica Acta, 2019, 323, 134808.	2.6	43
186	Low-loading IrO2 supported on Pt for catalysis of PEM water electrolysis and regenerative fuel cells. Applied Catalysis B: Environmental, 2020, 272, 118955.	10.8	43
187	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. ACS Catalysis, 2020, 10, 4990-4996.	5.5	43
188	High-performance Fuel Cell with Stretched Catalyst-Coated Membrane: One-step Formation of Cracked Electrode. Scientific Reports, 2016, 6, 26503.	1.6	42
189	An investigation on electron behavior employing vertically-aligned TiO2nanotube electrodes for dye-sensitized solar cells. Nanotechnology, 2009, 20, 355307.	1.3	41
190	Insights on the delithiation/lithiation reactions of Li Mn0.8Fe0.2PO4 mesocrystals in Li+ batteries by in situ techniques. Nano Energy, 2017, 39, 371-379.	8.2	41
191	Cross-linked sulfonated poly(ether ether ketone) membranes formed by poly(2,5-benzimidazole)-grafted graphene oxide as a novel cross-linker for direct methanol fuel cell applications. Journal of Power Sources, 2020, 448, 227427.	4.0	41
192	Hot Electron Generation in Aqueous Solution at Oxide-Covered Tantalum Electrodes. Reduction of Methylpyridinium and Electrogenerated Chemiluminescence of Ru(bpy)32+. Journal of Physical Chemistry B, 1999, 103, 667-674.	1.2	40
193	Effects of the incorporation of carbon powder into nanostructured TiO2 film for dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 186, 234-241.	2.0	40
194	Effect of PtRu alloying degree on electrocatalytic activities and stabilities. Applied Catalysis B: Environmental, 2011, 102, 334-342.	10.8	40
195	Nickel-nitride-coated nickel foam as a counter electrode for dye-sensitized solar cells. Surface and Coatings Technology, 2014, 259, 560-569.	2.2	40
196	Electrocatalytic properties of Pd clusters on Au nanoparticles in formic acid electro-oxidation. Electrochimica Acta, 2010, 55, 4339-4345.	2.6	39
197	Effect of PEDOT:PSS Coating on Manganese Oxide Nanowires for Lithium Ion Battery Anodes. Electrochimica Acta, 2016, 187, 340-347.	2.6	39
198	Tunable Synthesis of N,C-Codoped Ti³⁺-Enriched Titanium Oxide Support for Highly Durable PEMFC Cathode. ACS Catalysis, 2020, 10, 12080-12090.	5.5	39

#	Article	IF	Citations
199	Sulfonated poly(arylene ether sulfone) composite membrane having sulfonated polytriazole grafted graphene oxide for high-performance proton exchange membrane fuel cells. Journal of Membrane Science, 2020, 612, 118428.	4.1	39
200	Bleached state transmittance in charge-unbalanced all-solid-state electrochromic devices. Applied Physics Letters, 2003, 82, 3379-3381.	1.5	38
201	Ionic Resistance of a Cathode Catalyst Layer with Various Thicknesses by Electrochemical Impedance Spectroscopy for PEMFC. Journal of the Electrochemical Society, 2012, 159, B378-B384.	1.3	38
202	Improved mass transfer using a pore former in cathode catalyst layer in the direct methanol fuel cell. International Journal of Hydrogen Energy, 2012, 37, 11969-11974.	3.8	38
203	Highly ordered and vertically oriented TiO₂/Al₂O₃ nanotube electrodes for application in dye-sensitized solar cells. Nanotechnology, 2014, 25, 504003.	1.3	38
204	Rapid Inversion of Surface Charges in Heteroatomâ€Doped Porous Carbon: A Route to Robust Electrochemical Desalination. Advanced Functional Materials, 2020, 30, 1909387.	7.8	38
205	Structural and Thermodynamic Understandings in Mnâ€Based Sodium Layered Oxides during Anionic Redox. Advanced Science, 2020, 7, 2001263.	5.6	38
206	Three-Dimensional Unified Electrode Design Using a NiFeOOH Catalyst for Superior Performance and Durable Anion-Exchange Membrane Water Electrolyzers. ACS Catalysis, 2022, 12, 135-145.	5.5	38
207	Prism-patterned Nafion membrane for enhanced water transport in polymer electrolyte membrane fuel cell. Journal of Power Sources, 2016, 317, 19-24.	4.0	37
208	From grass to battery anode: agricultural biomass hemp-derived carbon for lithium storage. RSC Advances, 2018, 8, 32231-32240.	1.7	37
209	Single-atom Mâ€“Nâ€“C catalysts for oxygen reduction electrocatalysis. Trends in Chemistry, 2021, 3, 779-794.	4.4	37
210	Demonstration of Electrochemical Generation of Solution-Phase Hot Electrons at Oxide-Covered Tantalum Electrodes by Direct Electrogenerated Chemiluminescence. Journal of Physical Chemistry B, 1998, 102, 9797-9805.	1.2	36
211	Performance enhancement of PEMFC through temperature control in catalyst layer fabrication. Electrochimica Acta, 2007, 53, 763-767.	2.6	36
212	Highly uniform and vertically aligned SnO₂nanochannel arrays for photovoltaic applications. Nanoscale, 2015, 7, 8368-8377.	2.8	36
213	Effect of post heat-treatment of composition-controlled PdFe nanoparticles for oxygen reduction reaction. Journal of Power Sources, 2016, 303, 234-242.	4.0	36
214	Activation of micropore-confined sulfur within hierarchical porous carbon for lithium-sulfur batteries. Journal of Power Sources, 2016, 306, 617-622.	4.0	36
215	Short-Chain Polyselenosulfide Copolymers as Cathode Materials for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 45785-45795.	4.0	36
216	Bi-MOF derived micro/meso-porous Bi@C nanoplates for high performance lithium-ion batteries. Nanoscale, 2020, 12, 15214-15221.	2.8	36

#	Article	IF	Citations
217	A small-strain niobium nitride anode with ordered mesopores for ultra-stable potassium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 3119-3127.	5.2	36
218	Electrochemical and Electrochromic Properties of Ni Oxide Thin Films Prepared by a Solâ€“Gel Method. Journal of Sol-Gel Science and Technology, 2004, 31, 323-328.	1.1	35
219	Facile Multiscale Patterning by Creep-Assisted Sequential Imprinting and Fuel Cell Application. ACS Applied Materials & Interfaces, 2016, 8, 11459-11465.	4.0	35
220	Highly Efficient Bifacial Dye-Sensitized Solar Cells Employing Polymeric Counter Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 8611-8620.	4.0	35
221	Influence of TiO₂ Particle Size on Dye-Sensitized Solar Cells Employing an Organic Sensitizer and a Cobalt(III/II) Redox Electrolyte. Journal of Physical Chemistry C, 2018, 122, 7051-7060.	1.5	35
222	Dye-sensitized solar cells with Ptâ€“NiO and Ptâ€“TiO2 biphase counter electrodes. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 301-306.	2.0	34
223	3D interconnected SnO₂-coated Cu foam as a high-performance anode for lithium-ion batteryÂapplications. RSC Advances, 2014, 4, 58059-58063.	1.7	34
224	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. Journal of Membrane Science, 2018, 568, 67-75.	4.1	34
225	Controlling active sites of Feâ€“Nâ€“C electrocatalysts for oxygen electrocatalysis. Nano Energy, 2020, 78, 105395.	8.2	34
226	PtRuâ€“WO3 nanostructured alloy electrode for use in thin-film fuel cells. Applied Physics Letters, 2003, 82, 1090-1092.	1.5	33
227	Catalytic Activity of Platinum on Ruthenium Electrodes with Modified (Electro)chemical States. Journal of Physical Chemistry B, 2005, 109, 13585-13589.	1.2	33
228	Formation and characterization of Cuâ€“Si nanocomposite electrodes for rechargeable Li batteries. Journal of Power Sources, 2006, 163, 211-214.	4.0	33
229	Multilayered Pt/Ru nanorods with controllable bimetallic sites as methanol oxidation catalysts. Physical Chemistry Chemical Physics, 2010, 12, 15240.	1.3	33
230	Wrinkled silica/titania nanoparticles with tunable interwrinkle distances for efficient utilization of photons in dye-sensitized solar cells. Scientific Reports, 2016, 6, 30829.	1.6	33
231	Nitrogen-rich hollow carbon spheres decorated with FeCo/fluorine-rich carbon for high performance symmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 7522-7531.	5.2	33
232	Electrochemical properties of passivation film on mesophase pitch-based carbon fiber electrode. Microchemical Journal, 2001, 68, 61-70.	2.3	32
233	Performance enhancement of membrane electrode assemblies with plasma etched polymer electrolyte membrane in PEM fuel cell. International Journal of Hydrogen Energy, 2010, 35, 10452-10456.	3.8	32
234	Understanding the Behaviors of Î»-MnO₂ in Electrochemical Lithium Recovery: Key Limiting Factors and a Route to the Enhanced Performance. Environmental Science & Technology, 2020, 54, 9044-9051.	4.6	32

#	Article	IF	Citations
235	Metal Hexacyanoferrate Nanoparticles as Electrode Materials for Lithium Ion Batteries. Nanoscience and Nanotechnology Letters, 2013, 5, 770-774.	0.4	32
236	The Effectiveness of Sputtered PtCo Catalysts on TiO[sub 2] Nanotube Arrays for the Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2008, 155, B1128.	1.3	31
237	High-Performance Hybrid Catalyst with Selectively Functionalized Carbon by Temperature-Directed Switchable Polymer. Chemistry of Materials, 2013, 25, 1526-1532.	3.2	31
238	Conformal Polymeric Multilayer Coatings on Sulfur Cathodes via the Layer-by-Layer Deposition for High Capacity Retention in Liâ€“S Batteries. ACS Macro Letters, 2016, 5, 471-475.	2.3	31
239	Enhancement of Electrochemical Hot Electron Injection into Electrolyte Solutions at Oxide-Covered Tantalum Electrodes by Thin Platinum Films. Journal of Physical Chemistry B, 1998, 102, 9806-9811.	1.2	30
240	Synthesis and Characterization of Sn Nanophases in a Ta2O5 Matrix. Chemistry of Materials, 2004, 16, 1991-1995.	3.2	30
241	A coated Nafion membrane with a PVdF copolymer/Nafion blend for direct methanol fuel cells (DMFCs). Solid State Ionics, 2005, 176, 3027-3030.	1.3	30
242	Influence of annealing of membrane electrode assembly (MEA) on performance of direct methanol fuel cell (DMFC). Journal of Power Sources, 2007, 163, 952-956.	4.0	30
243	Modified Decal Method and Its Related Study of Microporous Layer in PEM Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B455.	1.3	30
244	Phosphate adsorption and its effect on oxygen reduction reaction for PtxCoy alloy and Aucoreâ€“Ptshell electrocatalysts. Electrochimica Acta, 2011, 56, 8802-8810.	2.6	30
245	Effect of surface composition of Ptâ€“Fe nanoparticles for oxygen reduction reactions. International Journal of Hydrogen Energy, 2014, 39, 14751-14759.	3.8	30
246	The role of pre-defined microporosity in catalytic site formation for the oxygen reduction reaction in iron- and nitrogen-doped carbon materials. Journal of Materials Chemistry A, 2017, 5, 4199-4206.	5.2	30
247	Effect of Catalyst Layer Ionomer Content on Performance of Intermediate Temperature Proton Exchange Membrane Fuel Cells (IT-PEMFCs) under Reduced Humidity Conditions. Electrochimica Acta, 2017, 224, 228-234.	2.6	30
248	Novel synthesis of highly durable and active Pt catalyst encapsulated in nitrogen containing carbon for polymer electrolyte membrane fuel cell. Journal of Power Sources, 2017, 362, 228-235.	4.0	30
249	A facile synthetic strategy for iron, aniline-based non-precious metal catalysts for polymer electrolyte membrane fuel cells. Scientific Reports, 2017, 7, 5396.	1.6	30
250	Structural Insights into Multiâ€Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis. Advanced Materials, 2022, 34, e2107868.	11.1	30
251	Proton conducting semi-IPN based on Nafion and crosslinked poly(AMPS) for direct methanol fuel cell. Electrochimica Acta, 2004, 50, 588-593.	2.6	29
252	Effect of Annealing PtNi Nanophases on Extended TiO[sub 2] Nanotubes for the Electrochemical Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2008, 155, B1058.	1.3	29

#	Article	IF	Citations
253	Methanol-tolerant cathode electrode structure composed of heterogeneous composites to overcome methanol crossover effects for direct methanol fuel cell. International Journal of Hydrogen Energy, 2011, 36, 15731-15738.	3.8	29
254	The application of camphorsulfonic acid doped polyaniline films prepared on TCO-free glass for counter electrode of bifacial dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 245, 1-8.	2.0	29
255	Hierarchical cobaltâ€“nitride and â€“oxide co-doped porous carbon nanostructures for highly efficient and durable bifunctional oxygen reaction electrocatalysts. Nanoscale, 2017, 9, 15846-15855.	2.8	29
256	Roomâ€Temperature Vapor Deposition of Cobalt Nitride Nanofilms for Mesoscopic and Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1703114.	10.2	29
257	Interface engineering for high-performance direct methanol fuel cells using multiscale patterned membranes and guided metal cracked layers. Nano Energy, 2018, 43, 149-158.	8.2	29
258	Membrane/Electrode Interface Design for Effective Water Management in Alkaline Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 34805-34811.	4.0	29
259	Methanol electro-oxidation on carbon-supported and Pt-modified Au nanoparticles. Catalysis Today, 2008, 132, 127-131.	2.2	28
260	Correlation between platinum nanoparticle surface rearrangement induced by heat treatment and activity for an oxygen reduction reaction. Physical Chemistry Chemical Physics, 2013, 15, 13658.	1.3	28
261	Synchrotron-based x-ray absorption spectroscopy for the electronic structure of Li x Mn 0.8 Fe 0.2 PO 4 mesocrystal in Li + batteries. Nano Energy, 2017, 31, 495-503.	8.2	28
262	SnS/C nanocomposites for high-performance sodium ion battery anodes. RSC Advances, 2018, 8, 23847-23853.	1.7	28
263	Electrocatalytic Properties of TiO2-Embedded Pt Nanoparticles in Oxidation of Methanol: Particle Size Effect and Proton Spillover Effect. Electrocatalysis, 2011, 2, 297-306.	1.5	27
264	Poly(arylene ether sulfone) with tetra(quaternary ammonium) moiety in the polymer repeating unit for application in solid alkaline exchange membrane fuel cells. International Journal of Hydrogen Energy, 2014, 39, 21223-21230.	3.8	27
265	Novel method of powder-based processing of copper nanofoams for their potential use in energy applications. Materials Chemistry and Physics, 2014, 145, 6-11.	2.0	27
266	Sn(salen)-derived SnS nanoparticles embedded in N-doped carbon for high performance lithium-ion battery anodes. Chemical Communications, 2020, 56, 8095-8098.	2.2	27
267	Chemical tuning of electrochemical properties of Pt-skin surfaces for highly active oxygen reduction reactions. Physical Chemistry Chemical Physics, 2013, 15, 17079.	1.3	26
268	Electrochemical synthesis of nanoporous tungsten carbide and its application as electrocatalysts for photoelectrochemical cells. Nanoscale, 2017, 9, 5413-5424.	2.8	26
269	Maximizing the Active Site Densities of Single-Atomic Feâ€“Nâ€“C Electrocatalysts for High-Performance Anion Membrane Fuel Cells. ACS Applied Energy Materials, 2021, 4, 1459-1466.	2.5	26
270	Synthesis and characterization of poly(benzimidazolium) membranes for anion exchange membrane fuel cells. Polymer Bulletin, 2013, 70, 2619-2631.	1.7	25

#	Article	IF	Citations
271	Origin of the Enhanced Electrocatalysis for Thermally Controlled Nanostructure of Bimetallic Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 9939-9945.	1.5	25
272	Si7Ti4Ni4 as a buffer material for Si and its electrochemical study for lithium ion batteries. Journal of Power Sources, 2014, 246, 729-735.	4.0	25
273	Facile synthesis of metal hydroxide nanoplates and their application as lithium-ion battery anodes. Journal of Materials Chemistry A, 2017, 5, 8744-8751.	5.2	25
274	Rhodiumâ€“Tin Binary Nanoparticleâ€”A Strategy to Develop an Alternative Electrocatalyst for Oxygen Reduction. ACS Catalysis, 2017, 7, 5796-5801.	5.5	25
275	Tailoring the porosity of MOF-derived N-doped carbon electrocatalysts for highly efficient solar energy conversion. Journal of Materials Chemistry A, 2018, 6, 20170-20183.	5.2	25
276	Improved Electrochromic Response Time of Nickel Hydroxide Thin Film by Ultra-Thin Nickel Metal Layer. Japanese Journal of Applied Physics, 2001, 40, L708-L710.	0.8	24
277	Preparation of PtRu nanoparticles on various carbon supports using surfactants and their catalytic activities for methanol electro-oxidation. Journal of Power Sources, 2007, 171, 404-411.	4.0	24
278	Modified polyol synthesis of PtRu/C for high metal loading and effect of post-treatment. Journal of Power Sources, 2010, 195, 1031-1037.	4.0	24
279	Preparation of onion-like Pt-terminated Ptâ€“Cu bimetallic nano-sized electrocatalysts for oxygen reduction reaction in fuel cells. Journal of Power Sources, 2016, 316, 124-131.	4.0	24
280	A hierarchical cathode catalyst layer architecture for improving the performance of direct methanol fuel cell. Applied Catalysis B: Environmental, 2017, 209, 91-97.	10.8	24
281	Iron sulfides with dopamine-derived carbon coating as superior performance anodes for sodium-ion batteries. Nano Research, 2019, 12, 2609-2613.	5.8	24
282	Operando Identification of the Chemical and Structural Origin of Li-Ion Battery Aging at Near-Ambient Temperature. Journal of the American Chemical Society, 2020, 142, 13406-13414.	6.6	24
283	Effects of tantalum oxide films on stability and optical memory in electrochromic tungsten oxide films. Solid State Ionics, 2003, 165, 229-233.	1.3	23
284	Structural effect of PtRuâ€“WO3 alloy nanostructures on methanol electrooxidation. Electrochemistry Communications, 2006, 8, 359-363.	2.3	23
285	High utilization of Pt nanocatalysts fabricated using a high-pressure sputtering technique. Journal of Power Sources, 2008, 178, 547-553.	4.0	23
286	Particle size effects of PtRu nanoparticles embedded in TiO2 on methanol electrooxidation. Electrochimica Acta, 2010, 55, 7939-7944.	2.6	23
287	Selfâ€Assembled Dendritic Pt Nanostructure with Highâ€Index Facets as Highly Active and Durable Electrocatalyst for Oxygen Reduction. ChemSusChem, 2017, 10, 3063-3068.	3.6	23
288	The Effect of Ar/O2 Ratio on Electrochromic Response Time of Ni Oxides Grown Using an RF Sputtering System. Japanese Journal of Applied Physics, 2002, 41, L212-L215.	0.8	22

#	Article	IF	Citations
289	Enhanced performance and improved interfacial properties of polymer electrolyte membrane fuel cells fabricated using sputter-deposited Pt thin layers. Electrochimica Acta, 2008, 53, 6111-6116.	2.6	22
290	Performance and stability characteristics of MEAs with carbon-supported Pt and Pt1Ni1 nanoparticles as cathode catalysts in PEM fuel cell. International Journal of Hydrogen Energy, 2011, 36, 4394-4399.	3.8	22
291	Facile synthesis of carbon supported metal nanoparticles via sputtering onto a liquid substrate and their electrochemical application. RSC Advances, 2014, 4, 38575.	1.7	22
292	Simple size control of TiO₂nanoparticles and their electrochemical performance: emphasizing the contribution of the surface area to lithium storage at high-rates. Nanoscale, 2016, 8, 5688-5695.	2.8	22
293	Electrochemically synthesized nanostructured iron carbide/carbon composite as a low-cost counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2018, 396, 213-219.	4.0	22
294	Anionic Redox Reactions in Cathodes for Sodiumâ€ion Batteries. ChemElectroChem, 2021, 8, 625-643.	1.7	22
295	Oligomeric chain extender-derived anion conducting membrane materials with poly(p-phenylene)-based architecture for fuel cells and water electrolyzers. Journal of Materials Chemistry A, 2022, 10, 9693-9706.	5.2	22
296	Synthesis and chargeâ€“discharge properties of LiNi1â^'xâ^'yCoxMyO2 (M=Al, Ga) compounds. Journal of Power Sources, 2003, 115, 101-109.	4.0	21
297	Crystalline Ag Nanocluster-Incorporated RuO[sub 2] as an Electrode Material for Thin-Film Micropseudocapacitors. Electrochemical and Solid-State Letters, 2008, 11, A112.	2.2	21
298	Effect of de-alloying of Ptâ€“Ni bimetallic nanoparticles on the oxygen reduction reaction. Electrochemistry Communications, 2010, 12, 1796-1799.	2.3	21
299	Surface Structures and Electrochemical Activities of Pt Overlayers on Ir Nanoparticles. Langmuir, 2011, 27, 3128-3137.	1.6	21
300	Enhanced activity of Pt-based electrocatalysts for oxygen reduction via a selective Pt deposition process. Journal of Electroanalytical Chemistry, 2011, 662, 70-79.	1.9	21
301	The dependence of performance degradation of membrane electrode assembly on platinum loading in polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2012, 37, 2490-2497.	3.8	21
302	Stability characteristics of Pt1Ni1/C as cathode catalysts in membrane electrode assembly of polymer electrolyte membrane fuel cell. Electrochimica Acta, 2012, 59, 264-269.	2.6	21
303	Effects of Ag-embedment on electronic and ionic conductivities of LiMnPO₄and its performance as a cathode for lithium-ion batteries. Nanoscale, 2015, 7, 13860-13867.	2.8	21
304	Microstructural and electrochromic properties of sputter-deposited Ni oxide films grown at different working pressures. Journal of Applied Physics, 2002, 92, 1268-1273.	1.1	20
305	Preparation and characterization of successively deposited Pt/Ru bimetallic electrocatalysts for the methanol oxidation. Electrochimica Acta, 2006, 52, 1683-1687.	2.6	20
306	Performance of membrane electrode assemblies using PdPt alloy as anode catalysts in polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2012, 37, 5884-5890.	3.8	20

#	Article	IF	Citations
307	Poly(3,4-Ethylenedioxythiophene) Inverse Opal Electrode Fabricated from Poly(3,4-Ethylenedioxythiophene):Poly(Styrene Sulfonate)-Filled Polystyrene Template for Dye-Sensitized Solar Cells. Electrochimica Acta, 2014, 137, 661-667.	2.6	20
308	Facile synthesis of nanostructured carbon nanotube/iron oxide hybrids for lithium-ion battery anodes. RSC Advances, 2014, 4, 37365-37370.	1.7	20
309	Two-dimensional assemblies of ultrathin titanate nanosheets for lithium ion battery anodes. RSC Advances, 2014, 4, 12087.	1.7	20
310	TiO2-core/Sn-shell Nanotube Arrays Based on Monolithic Negative Electrode for Li-ion Batteries. Electrochimica Acta, 2014, 130, 600-605.	2.6	20
311	An electrochemical approach to graphene oxide coated sulfur for long cycle life. Nanoscale, 2015, 7, 13249-13255.	2.8	20
312	Enhancement of cycle performance of Liâ€“S batteries by redistribution of sulfur. Chemical Communications, 2016, 52, 1198-1201.	2.2	20
313	Tuning the oxygen reduction activity of the Ptâ€“Ni nanoparticles upon specific anion adsorption by varying heat treatment atmospheres. Physical Chemistry Chemical Physics, 2014, 16, 13726.	1.3	19
314	Anode electrode with carbon buffer layer for improving methanol oxidation reaction in direct methanol fuel cell. Applied Surface Science, 2014, 290, 246-251.	3.1	19
315	Rational Generation of Feâˆ’N x Active Sites in Feâˆ’Nâˆ’C Electrocatalysts Facilitated by Feâˆ’N Coordinated Precursors for the Oxygen Reduction Reaction. ChemCatChem, 2019, 11, 5982-5988.	1.8	19
316	Integrated porous cobalt oxide/cobalt anode with micro- and nano-pores for lithium ion battery. Applied Surface Science, 2020, 525, 146592.	3.1	19
317	A Review of Industrially Developed Components and Operation Conditions for Anion Exchange Membrane Water Electrolysis. Journal of Electrochemical Science and Technology, 2017, 8, 265-273.	0.9	19
318	The Effect of RF Power on the Electrochromic Response Time of Sputter-Deposited Ni Oxide Films. Japanese Journal of Applied Physics, 2002, 41, L533-L535.	0.8	18
319	Modified electrochromism of tungsten oxide via platinum nanophases. Applied Physics Letters, 2006, 88, 211107.	1.5	18
320	Synthesis of 3 nm Pt Nanowire Using MCM-41 and Electrocatalytic Activity in Methanol Electro-oxidation. Electrochemical and Solid-State Letters, 2008, 11, B71.	2.2	18
321	High performance direct methanol fuel cells with micro/nano-patterned polymer electrolyte membrane. Journal of Membrane Science, 2014, 467, 36-40.	4.1	18
322	Reduction of methanol crossover by thin cracked metal barriers at the interface between membrane and electrode in direct methanol fuel cells. Journal of Power Sources, 2017, 363, 153-160.	4.0	18
323	Electrocatalytic Effects of Carbon Dissolution in Pd Nanoparticles. Langmuir, 2012, 28, 3664-3670.	1.6	17
324	Carbon treated self-ordered TiO2 nanotube arrays with enhanced lithium-ion intercalation performance. Journal of Alloys and Compounds, 2014, 597, 275-281.	2.8	17

#	Article	IF	Citations
325	Plasmon-enhanced dye-sensitized solar cells using SiO2 spheres decorated with tightly assembled silver nanoparticles. RSC Advances, 2014, 4, 19851.	1.7	17
326	How Pore Parameters Affect Li Ion Depletion in Mesoporous Materials for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 7604-7613.	1.5	17
327	Enhanced Light Harvesting in Mesoscopic Solar Cells by Multilevel Multiscale Patterned Photoelectrodes with Superpositioned Optical Properties. Advanced Functional Materials, 2016, 26, 6584-6592.	7.8	17
328	Effect of N-doped carbon coatings on the durability of highly loaded platinum and alloy catalysts with different carbon supports for polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2018, 43, 10070-10081.	3.8	17
329	Hierarchically Structured Conductive Polymer Binders with Silver Nanowires for High-Performance Silicon Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 17340-17347.	4.0	17
330	Hierarchical porous single-wall carbon nanohorns with atomic-level designed single-atom Co sites toward oxygen reduction reaction. Nano Energy, 2022, 97, 107206.	8.2	17
331	Electrochromism of Sn-Modified WO[sub 3] Electrodes Prepared from Sol-Gel Method. Electrochemical and Solid-State Letters, 2007, 10, E27.	2.2	16
332	Preparation of MEA with the Polybenzimidazole Membrane for High Temperature PEM Fuel Cell. Electrochemical and Solid-State Letters, 2011, 14, B38.	2.2	16
333	Selective deposition of Pt onto supported metal clusters for fuel cell electrocatalysts. Nanoscale, 2012, 4, 6461.	2.8	16
334	Amphiphilic Ti porous transport layer for highly effective PEM unitized regenerative fuel cells. Science Advances, 2021, 7, .	4.7	16
335	Suppressive effect of lithium phosphorous oxynitride at carbon anode on solvent decomposition in liquid electrolyte. Journal of Power Sources, 2002, 112, 626-633.	4.0	15
336	Probing Spatially-Resolved Pt Distribution in PtRu Nanoparticles with ¹⁹⁵Pt EC-NMR. Journal of the American Chemical Society, 2007, 129, 13806-13807.	6.6	15
337	Improved charge transport in dye-sensitized solar cells employing viscous non-volatile electrolytes. Electrochemistry Communications, 2008, 10, 1326-1329.	2.3	15
338	Morphological conversion of dipolar coreâ€“shell Auâ€“Co nanoparticles into beaded Auâ€“Co3O4 nanowires. Journal of Materials Chemistry, 2011, 21, 14163.	6.7	15
339	Vertically aligned iron oxide nanotube arrays and porous magnetite nanostructures as three-dimensional electrodes for lithium ion microbatteries. RSC Advances, 2012, 2, 12177.	1.7	15
340	Synthesis of Pt and bimetallic PtPd nanostructures on Au nanoparticles for use as methanol tolerant oxygen reduction reaction catalysts. New Journal of Chemistry, 2015, 39, 6034-6039.	1.4	15
341	Heterogeneous rhodiumâ€“tin nanoparticles: highly active and durable electrocatalysts for the oxidation of ethanol. Journal of Materials Chemistry A, 2015, 3, 17130-17134.	5.2	15
342	Elucidating Relationships between Structural Properties of Nanoporous Carbonaceous Shells and Electrochemical Performances of Si@Carbon Anodes for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 10255-10265.	1.5	15

#	Article	IF	Citations
343	Enhancement of electrochemical properties by polysulfide trapping in a graphene-coated sulfur cathode on patterned current collector. Chemical Communications, 2016, 52, 3203-3206.	2.2	15
344	Morphology and Gas-Sensing Properties of Tin Oxide Foams with Dual Pore Structure. Journal of Electronic Materials, 2017, 46, 3748-3756.	1.0	15
345	Edgeâ€Terminated MoS₂ Nanoassembled Electrocatalyst via In Situ Hybridization with 3D Carbon Network. Small, 2018, 14, e1802191.	5.2	15
346	Preparation and Characterization of Palladium Nanoparticles Supported on Nickel Hexacyanoferrate for Fuel Cell Application. Bulletin of the Korean Chemical Society, 2013, 34, 1195-1198.	1.0	15
347	Electrochromic properties of SnO2-incorporated Ni oxide films grown using a cosputtering system. Journal of Applied Physics, 2002, 92, 7128-7132.	1.1	14
348	Studies on heat-treated MPCF anodes in Li ion batteries. Microchemical Journal, 2002, 72, 185-192.	2.3	14
349	Improved electrocatalytic stability in ethanol oxidation by microwave-assisted selective deposition of SnO2 and Pt onto carbon. RSC Advances, 2013, 3, 7001.	1.7	14
350	Bioinspired Synthesis of Melaninlike Nanoparticles for Highly N-Doped Carbons Utilized as Enhanced CO₂ Adsorbents and Efficient Oxygen Reduction Catalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 2324-2333.	3.2	14
351	Optimization of cell components and operating conditions in primary and rechargeable zincâ€“air battery. Journal of Industrial and Engineering Chemistry, 2019, 69, 161-170.	2.9	14
352	Design considerations for lithiumâ€“sulfur batteries: mass transport of lithium polysulfides. Nanoscale, 2020, 12, 15466-15472.	2.8	14
353	Polymer electrolyte membrane unitized regenerative fuel cells: Operational considerations for achieving high round trip efficiency at low catalyst loading. Applied Catalysis B: Environmental, 2021, 297, 120458.	10.8	14
354	The impact of the catalyst layer structure on the performance of anion exchange membrane fuel cell. Electrochimica Acta, 2021, 400, 139439.	2.6	14
355	Effect of catalyst layer designs for high-performance and durable anion-exchange membrane water electrolysis. Journal of Industrial and Engineering Chemistry, 2022, 109, 453-460.	2.9	14
356	Modulation of electrode performance andin situobservation of proton transport in Ptâ€“RuO2 nanocomposite thin-film electrodes. Journal of Applied Physics, 2003, 94, 7276-7280.	1.1	13
357	Adhesion Improvement of Phosphor Layer by Combining Electrophoretic Deposition and UV Curing. Journal of the Electrochemical Society, 2003, 150, H43.	1.3	13
358	PtRu-Modified Au Nanoparticles as Electrocatalysts for Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2009, 156, B1150.	1.3	13
359	Pd nanocrystals on WC as a synergistic electrocatalyst for hydrogen oxidation reactions. Physical Chemistry Chemical Physics, 2013, 15, 2125.	1.3	13
360	Sea Sand-Derived Magnesium Silicide as a Reactive Precursor for Silicon-Based Composite Electrodes of Lithium-Ion Battery. Electrochimica Acta, 2017, 245, 893-901.	2.6	13

#	Article	IF	Citations
361	Understanding the Roles of Sulfur Dopants in Carbonaceous Electrocatalysts for the Oxygen Reduction Reaction: The Relationship between Catalytic Activity and Work Function. ChemElectroChem, 2018, 5, 1905-1913.	1.7	13
362	Directly integrated all-solid-state flexible lithium batteries on polymer substrate. Journal of Power Sources, 2020, 455, 227978.	4.0	13
363	Effect of interfacial property on electrochromic response speed of Ta2O5/NiO and Ta2O5/Ni(OH)2. Solid State Ionics, 2003, 165, 155-160.	1.3	12
364	Full Color Screen by EPD Combined with Photolithography for Flat Panel Displays. Journal of the Electrochemical Society, 2004, 151, H27.	1.3	12
365	The Operation Characteristics of MEAs with Pinholes for Polymer Electrolyte Membrane Fuel Cells. Electrochemical and Solid-State Letters, 2008, 11, B153.	2.2	12
366	PtRu overlayers on Au nanoparticles for methanol electro-oxidation. Catalysis Today, 2009, 146, 20-24.	2.2	12
367	Realization of Both High-Performance and Enhanced Durability of Fuel Cells: Pt-Exoskeleton Structure Electrocatalysts. ACS Applied Materials & Interfaces, 2015, 7, 14053-14063.	4.0	12
368	Soft Template Strategy to Synthesize Iron Oxideâ€“Titania Yolkâ€“Shell Nanoparticles as Highâ€Performance Anode Materials for Lithiumâ€Ion Battery Applications. Chemistry - A European Journal, 2015, 21, 7954-7961.	1.7	12
369	Functional link between surface low-coordination sites and the electrochemical durability of Pt nanoparticles. Journal of Power Sources, 2016, 334, 52-57.	4.0	12
370	Multidimensional Anodized Titanium Foam Photoelectrode for Efficient Utilization of Photons in Mesoscopic Solar Cells. Small, 2017, 13, 1701458.	5.2	12
371	A facile approach to improve the performance of alkaline anion exchange membrane fuel cells by reducing ionic resistance. Journal of Industrial and Engineering Chemistry, 2018, 61, 437-444.	2.9	12
372	Three-dimensionally interconnected titanium foam anode for an energy-efficient zero gap-type chlor-alkali electrolyzer. International Journal of Hydrogen Energy, 2019, 44, 16079-16086.	3.8	12
373	Electrodeposited mesh-type dimensionally stable anode for oxygen evolution reaction in acidic and alkaline media. Chemical Engineering Science, 2019, 206, 424-431.	1.9	12
374	Polymer-Laminated Electrochromic Devices Composed of WO[sub 3] and Ni(OH)[sub 2] on Glass and PET Substrates. Journal of the Electrochemical Society, 2005, 152, H201.	1.3	11
375	Structure and Electrocatalysis of Sputtered RuPt Thin-Film Electrodes. Journal of Physical Chemistry B, 2005, 109, 12845-12849.	1.2	11
376	Tungsten oxide bilayer electrodes for photoelectrochemical cells. Journal of Power Sources, 2010, 195, 5422-5425.	4.0	11
377	Preparation process for improving cathode electrode structure in direct methanol fuel cell. Electrochemistry Communications, 2010, 12, 754-757.	2.3	11
378	3,4â€dihydroxyâ€<scp>L</scp>â€phenylalanine as a cell adhesion molecule in serumâ€free cell culture. Biotechnology Progress, 2012, 28, 1055-1060.	1.3	11

#	Article	IF	Citations
379	Vertically aligned TiO2/ZnO nanotube arrays prepared by atomic layer deposition for photovoltaic applications. Korean Journal of Chemical Engineering, 2019, 36, 1157-1163.	1.2	11
380	Ball mill assisted synthesis of cobaltâ€“iron sulfide/N-doped carbon for high performance asymmetric supercapacitors. Journal of Applied Electrochemistry, 2020, 50, 1119-1128.	1.5	11
381	Recent progress in in situ/operando analysis tools for oxygen electrocatalysis. Journal Physics D: Applied Physics, 2021, 54, 173001.	1.3	11
382	<scp>Nonprecious</scp> Metal Bifunctional Catalysts for Oxygen Electrocatalysis Using a <scp>Metalâ€Organic</scp> Framework. Bulletin of the Korean Chemical Society, 2021, 42, 919-924.	1.0	11
383	Biomass Waste, Coffee Grounds-derived Carbon for Lithium Storage. Journal of Electrochemical Science and Technology, 2018, 9, 163-168.	0.9	11
384	High-performance long-term driving proton exchange membrane fuel cell implemented with chemically ordered Pt-based alloy catalyst at ultra-low Pt loading. Journal of Power Sources, 2022, 533, 231378.	4.0	11
385	Understanding Interface between Electrode and Electrolyte: Organic/Inorganic Hybrid Design for Fast Ion Conductivity. Journal of Physical Chemistry C, 2015, 119, 9169-9176.	1.5	10
386	Nanosized Ptâ€“La alloy electrocatalysts with high activity and stability for the oxygen reduction reaction. Surface Science, 2015, 631, 272-277.	0.8	10
387	Modified polyol method for a highly alloyed PtRu/C electrocatalyst: Effect of hot injection of metal precursor and NaOH. Materials Chemistry and Physics, 2016, 183, 11-17.	2.0	10
388	Lithium manganese phosphate-carbon composite as a highly active and durable electrocatalyst for oxygen reduction reaction. Electrochimica Acta, 2017, 245, 219-226.	2.6	10
389	Electrochemically Synthesized Mesoscopic Nickel Oxide Films as Photocathodes for Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2018, 1, 4178-4185.	2.5	10
390	Development of high-performance membrane-electrode assembly in unitized regenerative fuel cells. Journal of Industrial and Engineering Chemistry, 2019, 80, 527-534.	2.9	10
391	Acoustic emission analysis of the compressive deformation of iron foams and their biocompatibility study. Materials Science and Engineering C, 2019, 97, 367-376.	3.8	10
392	Enhancing the of Performance of Lithiumâ€Sulfur Batteries through Electrochemical Impregnation of Sulfur in Hierarchical Mesoporous Carbon Nanoparticles. ChemElectroChem, 2020, 7, 3653-3655.	1.7	10
393	Electrochemical performance of nano-Pt-supported carbon anode for lithium ion batteries. Electrochimica Acta, 2007, 52, 4566-4571.	2.6	9
394	Surface Structures and Electrochemical Activities of PtRu Overlayers on Ir Nanoparticles. ACS Catalysis, 2012, 2, 739-745.	5.5	9
395	Enhancement of hydrogen production and power density in a bio-reformed formic acid fuel cell (BrFAFC) using genetically modified Enterobacter asburiae SNU-1. International Journal of Hydrogen Energy, 2014, 39, 11731-11737.	3.8	9
396	Three-dimensional hemisphere-structured LiSn0.0125Mn1.975O4 thin-film cathodes. Electrochemistry Communications, 2014, 43, 36-39.	2.3	9

#	Article	IF	Citations
397	SnO₂nanotube arrays embedded in a carbon layer for high-performance lithium-ion battery applications. New Journal of Chemistry, 2015, 39, 2541-2546.	1.4	9
398	Morphological Study of Directionally Freeze-Cast Nickel Foams. Metallurgical and Materials Transactions E, 2016, 3, 46-54.	0.5	9
399	Boosting electrochemical stability of ultralow-Pt nanoparticle with Matryoshka-like structure in polymer electrolyte membrane fuel cells. Applied Catalysis B: Environmental, 2020, 268, 118450.	10.8	9
400	Effect of different surface functional groups on carbon supports toward methanol electro-oxidation of Pt nanoparticles. Journal of Electroanalytical Chemistry, 2020, 875, 113931.	1.9	9
401	Electrochemical recovery of LiOH from used CO2 adsorbents. Catalysis Today, 2021, 359, 83-89.	2.2	9
402	(Fe, Ni, Co) <scp> ₉ S ₈ </scp> @ <scp>CS</scp> catalyst decorated on Nâ€doped carbon as an efficient electrocatalyst for oxygen evolution reaction. International Journal of Energy Research, 2022, 46, 3145-3154.	2.2	9
403	The role of defects on the electrochromic response time of sputter-deposited Ni oxide films. Solid State Ionics, 2003, 156, 433-437.	1.3	8
404	Photoelectrochemical oxidative polymerization of aniline and its application to transparent TiO2 solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 204, 110-114.	2.0	8
405	Highly electrocatalytic hybrid silver nanowire-graphene counter electrode for Co3+/2+ redox mediator based dye-sensitized solar cells. Synthetic Metals, 2013, 177, 77-81.	2.1	8
406	Effect of Se modification on RuSey/C electrocatalyst for oxygen reduction with phosphoric acid. Electrochemistry Communications, 2013, 27, 46-49.	2.3	8
407	Preparation of uniform carbon nanoshell coated monodispersed iron oxide nanocrystals as an anode material for lithium-ion batteries. Electrochimica Acta, 2014, 136, 47-51.	2.6	8
408	Application of Three-Dimensionally Ordered Mesoporous TiO2 Particles as Dual-function Scatterers in Dye-Sensitized Solar Cells. Electrochimica Acta, 2016, 222, 1079-1085.	2.6	8
409	High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of Î±-Synuclein for Nanoapplications. ACS Applied Materials & Interfaces, 2017, 9, 8519-8532.	4.0	8
410	Endâ€group crossâ€linked membranes based on highly sulfonated poly(arylene ether sulfone) with vinyl functionalized graphene oxide as a crossâ€linker and a filler for proton exchange membrane fuel cell application. Journal of Polymer Science, 2020, 58, 3456-3466.	2.0	8
411	Spirobiindane-Based Poly(arylene ether sulfone) Ionomers for Alkaline Anion Exchange Membrane Fuel Cells. Macromolecular Research, 2020, 28, 275-281.	1.0	8
412	Origami-Based Flexible and Simple Tubular Polymer Electrolyte Membrane Fuel Cell Stack. ACS Energy Letters, 2021, 6, 3195-3202.	8.8	8
413	Addressing a basic issue. Nature Energy, 2021, 6, 779-780.	19.8	8
414	Effect of iridium oxide as an additive on catalysts with different Pt contents in cell reversal conditions of polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2022, 47, 1863-1873.	3.8	8

#	Article	IF	Citations
415	Surface Roughness-Independent Homogeneous Lithium Plating in Synergetic Conditioned Electrolyte. ACS Energy Letters, 2022, 7, 2219-2227.	8.8	8
416	Facile synthesis of three-dimensional conducting scaffold with magnesiophilic decorations toward non-dendritic Mg-metal batteries. Journal of Power Sources, 2022, 541, 231724.	4.0	8
417	Enhanced Electrochromic Properties of Irâ€“Ta Oxide Grown Using a Cosputtering System. Journal of the Electrochemical Society, 2010, 157, J256.	1.3	7
418	Characteristics and performance of membrane electrode assemblies with operating conditions in polymer electrolyte membrane fuel cell. Electrochimica Acta, 2010, 56, 717-721.	2.6	7
419	The Effects of Radio Frequency Sputtering of TiO₂ on Li[Li_{0.07}Ni_{0.38}Co_{0.15}Mn_{0.40}]O₂ Cathode for Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2013, 13, 7924-7931.	0.4	7
420	Effect of particle shape on the electrochemical properties of CaSnO3 as an anode material for lithium-ion batteries. Journal of Applied Electrochemistry, 2014, 44, 789-796.	1.5	7
421	NaCrO 2 /Coffee Wasteâ€“derived Nitrogenâ€doped Carbon Composite as Highâ€Performance Cathode Material for Sodium Ion Batteries. Bulletin of the Korean Chemical Society, 2019, 40, 857-862.	1.0	7
422	Effect of anode iridium oxide content on the electrochemical performance and resistance to cell reversal potential of polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2021, 46, 14713-14723.	3.8	7
423	CdSe Quantum Dots Sensitized TiO2Electrodes for Photovoltaic Cells. Journal of the Korean Electrochemical Society, 2007, 10, 257-261.	0.1	7
424	Structural modification of electrode for anion exchange membrane fuel cell by controlling ionomer dispersion. International Journal of Energy Research, 2022, 46, 6471-6479.	2.2	7
425	Understandings about functionalized porous carbon via scanning transmission x-ray microscopy (STXM) for high sulfur utilization in lithium-sulfur batteries. Nano Energy, 2022, 100, 107446.	8.2	7
426	The enhanced anodic performance of highly crimped and crystalline nanofibrillar carbon in lithium-ion batteries. Electrochimica Acta, 2007, 53, 944-950.	2.6	6
427	Enhancement of polymer electrolyte membrane fuel cell performance by boiling a membrane electrode assembly in sulfuric acid solution. Journal of Power Sources, 2010, 195, 5952-5956.	4.0	6
428	Electrochemical determination of the surface composition of Pdâ€“Pt coreâ€“shell nanoparticles. Electrochemistry Communications, 2013, 28, 114-117.	2.3	6
429	The Electrochemical Analysis using Critical Parameters in Liâ€“S Battery. Bulletin of the Korean Chemical Society, 2015, 36, 2596-2600.	1.0	6
430	Long Vertically Aligned TiO₂ Nanotube Electrodes Prepared via Twoâ€Step Anodization for Highly Efficient Photovoltaics. Israel Journal of Chemistry, 2015, 55, 1034-1040.	1.0	6
431	Preparation of <scp>WO₃</scp> Thin Film by Successive Dip Coating for Electrochromic and Photoelectrochromic Devices. Bulletin of the Korean Chemical Society, 2015, 36, 2213-2220.	1.0	6
432	Enhanced Cycling Properties of Carbon-Coated SnO₂â€“Co₃O₄ Composite Nanowires for Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2016, 16, 10558-10562.	0.9	6

#	Article	IF	Citations
433	Facile synthesis of platinum alloy electrocatalyst via aluminum reducing agent and the effect of post heat treatment for oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 22952-22962.	3.8	6
434	Improved electrochemical performance of a three-dimensionally ordered mesoporous carbon based lithium ion battery using vinylene carbonate. Materials Today Communications, 2016, 6, 69-73.	0.9	6
435	Direct formation of Pt catalyst on gas diffusion layer using sonochemical deposition method for the application in polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2018, 43, 10431-10439.	3.8	6
436	The keys for effective distribution of intergranular voids of peapod-like MnO@C core-shell for lithium ion batteries. Journal of Alloys and Compounds, 2020, 817, 152760.	2.8	6
437	Electrochemical Regeneration of Free Chlorine Treated Nickel Oxide Catalysts for Oxidation of Aqueous Pollutants. Catalysis Today, 2021, 375, 514-521.	2.2	6
438	Electrocatalyst for the Oxygen Reduction Reaction: from the Nanoscale to the Macroscale. Journal of Electrochemical Science and Technology, 2014, 5, 65-72.	0.9	6
439	Effect of the amount of reducing agent on surface structures, electrochemical activity and stability of PtRu catalysts. Electrochimica Acta, 2011, 56, 8688-8694.	2.6	5
440	Structural Modification of a Membrane Electrode Assembly via a Spray Coating in PEMFCs. Journal of the Electrochemical Society, 2011, 159, B145-B149.	1.3	5
441	Grapheneâ€“Gold Nanoparticle Composite Counter Electrode for Cobalt-electrolyte-based Dye-sensitized Solar Cells. Chemistry Letters, 2013, 42, 31-33.	0.7	5
442	Dye-sensitized solar cells with silica-coated quantum dot-embedded nanoparticles used as a light-harvesting layer. New Journal of Chemistry, 2014, 38, 910.	1.4	5
443	Synthesis and dielectric properties of strontium substituted calcium niobate ceramics. Journal of Alloys and Compounds, 2015, 622, 373-378.	2.8	5
444	Charting the Outer Helmholtz Plane and the Role of Nitrogen Doping in the Oxygen Reduction Reaction Conducted in Alkaline Media Using Nonprecious Metal Catalysts. Journal of Physical Chemistry C, 2016, 120, 24511-24520.	1.5	5
445	Porosity- and content-controlled metal/metal oxide/metal carbide@carbon (M/MO/MC@C) composites derived from MOFs: mechanism study and application for lithium-ion batteries. New Journal of Chemistry, 2018, 42, 18678-18689.	1.4	5
446	Antiglare and antireflective coating of layer-by-layer SiO2 and TiZrO2 on surface-modified glass. Applied Surface Science, 2019, 490, 278-282.	3.1	5
447	Freeze Casting is a Facile Method to Create Solid Solution Alloy Foams: Cuâ€“Ni Alloy Foams via Freeze Casting. Advanced Engineering Materials, 2019, 21, 1801265.	1.6	5
448	Synthesis and growth mechanism of carbon-supported nanoparticle catalysts by physical vapor deposition onto a liquid medium substrate. Applied Surface Science, 2019, 471, 1083-1087.	3.1	5
449	Self-supported mesoscopic tin oxide nanofilms for electrocatalytic reduction of carbon dioxide to formate. Chemical Communications, 2021, 57, 3445-3448.	2.2	5
450	High Alloying Degree of Carbon Supported Pt-Ru Alloy Nanoparticles Applying Anhydrous Ethanol as a Solvent. Journal of Electrochemical Science and Technology, 2010, 1, 19-24.	0.9	5

#	Article	IF	Citations
451	High Performance CeO[sub 2]- and Ce[sub 0.8]Sm[sub 0.2]O[sub 2]-Modified Pt/C Catalysts for the Cathode of a DMFC. Journal of the Electrochemical Society, 2009, 156, B801.	1.3	4
452	Carbon-supported Pt-RuS2 nanocomposite as hydrogen oxidation reaction catalysts for fuel cells. Journal of Applied Electrochemistry, 2016, 46, 77-83.	1.5	4
453	Electrocatalysts: Highly Durable and Active Pt-Based Nanoscale Design forÂFuel-Cell Oxygen-Reduction Electrocatalysts (Adv. Mater. 42/2018). Advanced Materials, 2018, 30, 1870316.	11.1	4
454	Recent Progress in the Design and Synthesis of Nitrides for Mesoscopic and Perovskite Solar Cells. ChemSusChem, 2019, 12, 772-786.	3.6	4
455	Electrochemical behavior of residual salts and an effective method to remove impurities in the formation of porous copper electrode for lithium metal batteries. International Journal of Energy Research, 2021, 45, 10738-10745.	2.2	4
456	Electrocatalyst for the Oxygen Reduction Reaction: from the Nanoscale to the Macroscale. Journal of Electrochemical Science and Technology, 2014, 5, 65-72.	0.9	4
457	Excellent Performances of Modified RuOs Bimetallic Materials as Anode Catalysts for Polymer Electrolyte Membrane Fuel Cells. Electrocatalysis, 2018, 9, 352-358.	1.5	3
458	Synthesis of Heteroatom (B, N, and O)-Doped Carbons via Chlorination of a Carbonitrideâ€“Boride Mixture: Influence of Boron Addition on Structure and Electrochemical Properties of Carbon. Journal of Physical Chemistry C, 2021, 125, 13850-13861.	1.5	3
459	Effects of Photochemical Oxidation of the Carbonaceous Additives on Liâ€“S Cell Performance. ACS Applied Materials & Interfaces, 2021, 13, 41517-41523.	4.0	3
460	Facet-Defined Strain-Free Spinel Oxide for Oxygen Reduction. Nano Letters, 2022, 22, 3636-3644.	4.5	3
461	The effect of the geometric area ratio between working and counter PEM electrodes for electrochemical hydrogen reactions. International Journal of Hydrogen Energy, 2010, 35, 12449-12453.	3.8	2
462	Structural design of 3-dimensional disk electrode based on Cu-CoO composite for Li-ion battery. Korean Journal of Chemical Engineering, 2012, 29, 985-988.	1.2	2
463	Analysis of the spatially distributed performance degradation of a polymer electrolyte membrane fuel cell stack. International Journal of Hydrogen Energy, 2014, 39, 16548-16555.	3.8	2
464	Light Harvesting: Enhanced Light Harvesting in Mesoscopic Solar Cells by Multilevel Multiscale Patterned Photoelectrodes with Superpositioned Optical Properties (Adv. Funct. Mater. 36/2016). Advanced Functional Materials, 2016, 26, 6583-6583.	7.8	2
465	Lithiumâ€Sulfur Batteries: Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Liâ€“S Battery (Adv. Energy Mater. 11/2017). Advanced Energy Materials, 2017, 7, .	10.2	2
466	Simultaneous etching and transfer â€” Free multilayer graphene sheets derived from C60 thin films. Journal of Industrial and Engineering Chemistry, 2018, 64, 70-75.	2.9	2
467	Alternative Assembly of Î±-Synuclein Leading to Protein Film Formation and Its Application for Developing Polydiacetylene-Based Sensing Materials. Langmuir, 2019, 35, 11923-11931.	1.6	2
468	Characterization of Methanol Crossover through Nafion Membranes by Direct Cell Performance Measurement. Journal of the Korean Electrochemical Society, 2002, 5, 226-231.	0.1	2

#	Article	IF	Citations
469	Fabrication of an Ionomer-Free Electrode Containing Vertically Aligned One-Dimensional Nanostructures for Alkaline Membrane Fuel Cells. Journal of the Electrochemical Society, 0, , .	1.3	2
470	Effect of Precursor Status on the Transition from Complex to Carbon Shell in a Platinum Coreâ€“Carbon Shell Catalyst. ACS Omega, 2022, 7, 15615-15624.	1.6	2
471	Electroluminescence of oxide-covered tantalum electrode as inorganic and organic probes. Synthetic Metals, 2001, 117, 253-254.	2.1	1
472	Titelbild: Elemental Sulfur as a Reactive Medium for Gold Nanoparticles and Nanocomposite Materials (Angew. Chem. 48/2011). Angewandte Chemie, 2011, 123, 11459-11459.	1.6	1
473	Electrochromic Properties of Li+-Modified Prussian Blue. Journal of the Korean Electrochemical Society, 2007, 10, 126-131.	0.1	1
474	Comparison between CFD Analysis and Experiments According to Various PEMFC Flow-field Designs. Journal of the Korean Electrochemical Society, 2009, 12, 61-67.	0.1	1
475	CO Tolerance Improvement of MEA Using Metal Thin Film by Sputtering Method in PEM Fuel Cell. Journal of the Korean Electrochemical Society, 2007, 10, 279-282.	0.1	1
476	Ethanol Electro-Oxidation and Stability of Pt Supported on Sb-Doped Tin Oxide. Journal of the Korean Electrochemical Society, 2008, 11, 141-146.	0.1	1
477	Theory & Design of Electrocatalyst for Polymer Electrolyte Membrane Fuel Cell. Journal of the Korean Electrochemical Society, 2009, 12, 11-25.	0.1	1
478	Fabrication of Nickel Oxide Thin Film for Lithium Based Electrolyte by Sol-Gel Method and Electrochromic Properties in Lithium Based Electrolyte. Journal of the Korean Electrochemical Society, 2009, 12, 251-257.	0.1	1
479	Cover Picture: Elemental Sulfur as a Reactive Medium for Gold Nanoparticles and Nanocomposite Materials (Angew. Chem. Int. Ed. 48/2011). Angewandte Chemie - International Edition, 2011, 50, 11263-11263.	7.2	0
480	Effect of Particle Size of PtRu Nanoparticles Embedded in WO3 on Electrocatalysis. Journal of Nanoscience and Nanotechnology, 2013, 13, 3591-3596.	0.9	0
481	Porosity and cycling retention in composite-based three-dimensional disc electrodes for Li ion battery. Journal of Composite Materials, 2013, 47, 1677-1682.	1.2	0
482	Metalâ€coated Polyether Ether Ketone Monopolar Plates for Polymer Electrolyte Membrane Fuel Cell. Bulletin of the Korean Chemical Society, 2015, 36, 2815-2818.	1.0	0
483	Li Storage of Calcium Niobates for Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2015, 15, 8103-8107.	0.9	0
484	Manufacturing of LiNi<inf>0.5</inf>Mn<inf>1.5</inf>O<inf>4</inf>/LiPON/SiN<inf>x</inf> structured flexible lithium microbatteries. , 2016, , .		0
485	Lithiumâ€Sulfur Batteries: The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Liâ€S Batteries (Adv. Energy Mater. 19/2017). Advanced Energy Materials, 2017, 7, .	10.2	0
486	Authors' reply to the comment on â€˜Novel synthesis of highly durable and active Pt catalyst encapsulated in nitrogen containing carbon for polymer electrolyte membrane fuel cellâ€™. Journal of Power Sources, 2017, 363, 482.	4.0	0

#	Article	IF	Citations
487	Electrocatalysis: Electrochemically Synthesized Nanoporous Molybdenum Carbide as a Durable Electrocatalyst for Hydrogen Evolution Reaction (Adv. Sci. 1/2018). Advanced Science, 2018, 5, 1870002.	5.6	0
488	Vapor-Deposited Tungsten Carbide Nano-Dendrites as Sulfur-Tolerant Electrocatalysts for Quantum Dot-Sensitized Solar Cells. Journal of the Electrochemical Society, 2018, 165, H954-H961.	1.3	0
489	Capacitive Deionization: Rapid Inversion of Surface Charges in Heteroatomâ€Doped Porous Carbon: A Route to Robust Electrochemical Desalination (Adv. Funct. Mater. 9/2020). Advanced Functional Materials, 2020, 30, 2070054.	7.8	0
490	Effect of Porosity on Cycle Performance in Three-Dimensional Disk Electrode for Li Ion Battery. Japanese Journal of Applied Physics, 2011, 50, 100201.	0.8	0
491	Layered Nickel-Based Oxides on Partially Oxidized Metallic Copper Foils for Lithium Ion Batteries. Journal of Electrochemical Science and Technology, 2011, 2, 204-210.	0.9	0
492	Morphology Controlled Cathode Catalyst Layer with AAO Template in Polymer Electrolyte Membrane Fuel Cells. Journal of the Korean Electrochemical Society, 2012, 15, 109-114.	0.1	0
493	Graphene Quantum Dots (GQDs) Surface Functionalization to Enhance the Cycle Stability and Electron Path on Lithium Sulphur Batteries. ECS Meeting Abstracts, 2014, , .	0.0	0
494	In-Situ Analysis of Overpotentials in Direct Methanol Fuel Cell by Using Membrane Electrode Assembly Composed of Three Electrodes. Korean Journal of Materials Research, 2018, 28, 330-336.	0.1	0
495	MOF-Derived Alloy Nanoparticles for Highly Durable Fuel Cell Electrocatalysts. ECS Meeting Abstracts, 2019, , .	0.0	0
496	Application of Nano-Dispersed Ionomer to Prolong Lifetime of Polymer Electrolyte Membrane Fuel Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
497	(Invited) Controlling the Ordering of Na+ and Vacancy By Ti-Doping in P2-Na0.67Co1-XTixO2 for High Energy and Power Density Cathode Materials in Sodium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 241-241.	0.0	0
498	Ta2O5-Incorporated WO3 nanocomposite film for improved electrochromic performance in an acidic condition. Journal of Nanoscience and Nanotechnology, 2006, 6, 3572-6.	0.9	0
499	Structural Insights into Multiâ€Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis (Adv. Mater. 8/2022). Advanced Materials, 2022, 34, .	11.1	0
500	Communicationâ€"Polysulfide-Induced Chemical Capacity Loss in Li-S Batteries. Journal of the Electrochemical Society, 0, , .	1.3	0