Kug-Seung Lee

List of Publications by Year
in descending order

139 papers	8,145 citations	57631 44 h-index	51492 86 g-index
142 all docs	142 docs citations	142 times ranked	10075 citing authors

#	Article	IF	Citations
1	Electronic interaction between transition metal single-atoms and anatase TiO₂ boosts CO₂ photoreduction with H₂O. Energy and Environmental Science, 2022, 15, 601-609.	15.6	88
2	Enhancing the inherent catalytic activity and stability of TiO₂ supported Pt single-atoms at CeO_{<i>x</i>}â€“TiO₂ interfaces. Journal of Materials Chemistry A, 2022, 10, 5942-5952.	5.2	7
3	Structural Insights into Multiâ€Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis. Advanced Materials, 2022, 34, e2107868.	11.1	30
4	Reducing the high hydrogen binding strength of vanadium carbide MXene with atomic Pt confinement for high activity toward HER. Applied Catalysis B: Environmental, 2022, 304, 120989.	10.8	58
5	Precisely Constructing Orbital Coupling-Modulated Dual-Atom Fe Pair Sites for Synergistic CO₂ Electroreduction. ACS Energy Letters, 2022, 7, 640-649.	8.8	127
6	Continuous Oxygen Vacancy Gradient in TiO₂ Photoelectrodes by a Photoelectrochemicalâ€Driven â€œSelfâ€Purificationâ€•Process. Advanced Energy Materials, 2022, 12, .	10.2	42
7	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
8	Precise synthesis of single-atom Mo, W, Nb coordinated with oxygen functional groups of graphene oxide for stable and selective two-electron oxygen reduction in neutral media. Journal of Materials Chemistry A, 2022, 10, 9488-9496.	5.2	8
9	Interspersing CeO_{<i>x</i>} Clusters to the Ptâ€“TiO₂ Interfaces for Catalytic Promotion of TiO₂-Supported Pt Nanoparticles. Journal of Physical Chemistry Letters, 2022, 13, 1719-1725.	2.1	7
10	Harnessing Strong Metalâ€“Support Interaction to Proliferate the Dry Reforming of Methane Performance by In Situ Reduction. ACS Applied Materials & Interfaces, 2022, 14, 12140-12148.	4.0	19
11	Boosting Support Reducibility and Metal Dispersion by Exposed Surface Atom Control for Highly Active Supported Metal Catalysts. ACS Catalysis, 2022, 12, 4402-4414.	5.5	19
12	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
13	Design of Co-NC as efficient electrocatalyst: The unique structure and active site for remarkable durability of proton exchange membrane fuel cells. Applied Catalysis B: Environmental, 2022, 308, 121220.	10.8	26
14	Alteration of oxygen evolution mechanisms in layered LiCoO₂ structures by intercalation of alkali metal ions. Journal of Materials Chemistry A, 2022, 10, 10967-10978.	5.2	10
15	Hysteresisâ€Suppressed Reversible Oxygenâ€Redox Cathodes for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2022, 12, .	10.2	42
16	A highly active and stable 3D dandelion spore-structured self-supporting Ir-based electrocatalyst for proton exchange membrane water electrolysis fabricated using structural reconstruction. Energy and Environmental Science, 2022, 15, 3449-3461.	15.6	44
17	Stabilizing role of Mo in TiO2-MoOx supported Ir catalyst toward oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 280, 119433.	10.8	69
18	Unprecedented electrocatalytic oxygen evolution performances by cobalt-incorporated molybdenum carbide microflowers with controlled charge re-distribution. Journal of Materials Chemistry A, 2021, 9, 1770-1783.	5.2	13

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19	Reconstructing the Coordination Environment of Platinum Single-Atom Active Sites for Boosting Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 466-475.	5.5	62
20	Anion Constructor for Atomicâ€Scale Engineering of Antiperovskite Crystals for Electrochemical Reactions. Advanced Functional Materials, 2021, 31, 2009241.	7.8	4
21	Transition from perovskite to misfit-layered structure materials: a highly oxygen deficient and stable oxygen electrode catalyst. Energy and Environmental Science, 2021, 14, 2472-2484.	15.6	53
22	Single-atom oxygen reduction reaction electrocatalysts of Fe, Si, and N co-doped carbon with 3D interconnected mesoporosity. Journal of Materials Chemistry A, 2021, 9, 4297-4309.	5.2	43
23	Electronic Structure Engineering of Honeycomb Layered Cathode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2003399.	10.2	24
24	Insight on the treatment of pig blood as biomass derived electrocatalyst precursor for high performance in the oxygen reduction reaction. Applied Surface Science, 2021, 545, 148940.	3.1	6
25	Atomicâ€Scale Engineering: Anion Constructor for Atomicâ€Scale Engineering of Antiperovskite Crystals for Electrochemical Reactions (Adv. Funct. Mater. 16/2021). Advanced Functional Materials, 2021, 31, 2170112.	7.8	0
26	<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
27	Quantification of Active Site Density and Turnover Frequency: From Single-Atom Metal to Nanoparticle Electrocatalysts. Jacs Au, 2021, 1, 586-597.	3.6	53
28	Hydrogen-Mediated Thin Pt Layer Formation on Ni₃N Nanoparticles for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2021, 13, 24624-24633.	4.0	3
29	A New Approach to Stable Cationic and Anionic Redox Activity in O3â€Layered Cathode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2100901.	10.2	24
30	Atomic-Scale Engineered Fe Single-Atom Electrocatalyst Based on Waste Pig Blood for High-Performance AEMFCs. ACS Sustainable Chemistry and Engineering, 2021, 9, 7863-7872.	3.2	17
31	Disordered-Layer-Mediated Reverse Metalâ€“Oxide Interactions for Enhanced Photocatalytic Water Splitting. Nano Letters, 2021, 21, 5247-5253.	4.5	18
32	A stable and active three-dimensional carbon based trimetallic electrocatalyst for efficient overall wastewater splitting. International Journal of Hydrogen Energy, 2021, 46, 30762-30779.	3.8	9
33	Oxygen-Vacancy-Driven Orbital Reconstruction at the Surface of TiO₂ Coreâ€“Shell Nanostructures. Nano Letters, 2021, 21, 7953-7959.	4.5	11
34	General Efficacy of Atomically Dispersed Pt Catalysts for the Chlorine Evolution Reaction: Potential-Dependent Switching of the Kinetics and Mechanism. ACS Catalysis, 2021, 11, 12232-12246.	5.5	40
35	Waste pig blood-derived 2D Fe single-atom porous carbon as an efficient electrocatalyst for zincâ€“air batteries and AEMFCs. Applied Surface Science, 2021, 563, 150208.	3.1	25
36	Bi doping stimulation on the visible-light absorption of In2O3 ceramics. Journal of Alloys and Compounds, 2021, 878, 160339.	2.8	5

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37	Controllable synthesis of single-layer graphene over cobalt nanoparticles and insight into active sites for efficient oxygen evolution. Journal of Materials Chemistry A, 2021, 9, 12060-12073.	5.2	9
38	Systematic Approach to Designing a Highly Efficient Coreâ€"Shell Electrocatalyst for N₂O Reduction. ACS Catalysis, 2021, 11, 15089-15097.	5.5	9
39	Atomic Rearrangement in Coreâ€"Shell Catalysts Induced by Electrochemical Activation for Favorable Oxygen Reduction in Acid Electrolytes. ACS Catalysis, 2021, 11, 15098-15109.	5.5	9
40	A tailored oxide interface creates dense Pt single-atom catalysts with high catalytic activity. Energy and Environmental Science, 2020, 13, 1231-1239.	15.6	140
41	Annealing dependence of structural and optical properties of Zr-doped ZnO films deposited by radio frequency magnetron co-sputtering. Thin Solid Films, 2020, 696, 137782.	0.8	1
42	Controlling active sites of Feâ€"Nâ€"C electrocatalysts for oxygen electrocatalysis. Nano Energy, 2020, 78, 105395.	8.2	34
43	Phase Change <i>via</i> Intermediary Metastable Local Structure of Ge Atoms in Ge₂Sb₂Te₅ Nanowires during Electrical Switching. ACS Applied Electronic Materials, 2020, 2, 2418-2428.	2.0	1
44	Activityâ€"Stability Relationship in Au@Pt Nanoparticles for Electrocatalysis. ACS Energy Letters, 2020, 5, 2827-2834.	8.8	49
45	Enhancements in catalytic activity and duration of PdFe bimetallic catalysts and their use in direct formic acid fuel cells. Journal of Industrial and Engineering Chemistry, 2020, 90, 351-357.	2.9	17
46	Electron-deficient titanium single-atom electrocatalyst for stable and efficient hydrogen production. Nano Energy, 2020, 78, 105151.	8.2	16
47	Charge transfer rhenium complexes analogue to pertechnetate removal. Journal of Environmental Chemical Engineering, 2020, 8, 104366.	3.3	1
48	New Insight on Openâ€Structured Sodium Vanadium Oxide as Highâ€Capacity and Long Life Cathode for Znâ€"Ion Storage: Structure, Electrochemistry, and Firstâ€Principles Calculation. Advanced Energy Materials, 2020, 10, 2001595.	10.2	54
49	Oneâ€Dimensional <i>Ï€</i>â€"d Conjugated Coordination Polymer for Electrochromic Energy Storage Device with Exceptionally High Performance. Advanced Science, 2020, 7, 1903109.	5.6	72
50	<i>Operando</i> Stability of Platinum Electrocatalysts in Ammonia Oxidation Reactions. ACS Catalysis, 2020, 10, 11674-11684.	5.5	36
51	Mnâ€Rich Pâ€²2â€Na_{0.67}[Ni_{0.1}Fe_{0.1}Mn_{0.8}]O₂ as Highâ€Energyâ€Density and Longâ€Life Cathode Material for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001346.	10.2	50
52	Highly Active and Durable Ordered Intermetallic PdFe Electrocatalyst for Formic Acid Electrooxidation Reaction. ACS Applied Energy Materials, 2020, 3, 4226-4237.	2.5	31
53	Formation Mechanism and Gram-Scale Production of PtNi Hollow Nanoparticles for Oxygen Electrocatalysis through In Situ Galvanic Displacement Reaction. ACS Applied Materials & Interfaces, 2020, 12, 16286-16297.	4.0	15
54	Structural and Thermodynamic Understandings in Mnâ€Based Sodium Layered Oxides during Anionic Redox. Advanced Science, 2020, 7, 2001263.	5.6	38

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55	An optimized approach toward high energy density cathode material for K-ion batteries. Energy Storage Materials, 2020, 27, 342-351.	9.5	37
56	Atomic-level tuning of Coâ€"Nâ€"C catalyst for high-performance electrochemical H2O2 production. Nature Materials, 2020, 19, 436-442.	13.3	725
57	Origin of the Superior Electrochemical Performance of Amorphous-Phase Conversion-Reaction-Based Electrode Materials for Na-Ion Batteries: Formation of a Bicontinuous Metal Network. ACS Applied Materials & Interfaces, 2020, 12, 22721-22729.	4.0	7
58	An analytical method to characterize the crystal structure of layered double hydroxides: synthesis, characterization, and electrochemical studies of zinc-based LDH nanoplates. Journal of Materials Chemistry A, 2020, 8, 8692-8699.	5.2	10
59	Cerium Aminoclayâ€"A Potential Hybrid Biomaterial for Anticancer Therapy. ACS Biomaterials Science and Engineering, 2019, 5, 5857-5871.	2.6	5
60	A â€œsurface patchingâ€• strategy to achieve highly efficient solar water oxidation beyond surface passivation effect. Nano Energy, 2019, 66, 104110.	8.2	20
61	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
62	Development of robust Pt shell through organic hydride donor in PtCo@Pt core-shell electrocatalysts for highly stable proton exchange membrane fuel cells. Journal of Catalysis, 2019, 379, 112-120.	3.1	41
63	Understanding on the structural and electrochemical performance of orthorhombic sodium manganese oxides. Journal of Materials Chemistry A, 2019, 7, 202-211.	5.2	39
64	Reversible and cooperative photoactivation of single-atom Cu/TiO2 photocatalysts. Nature Materials, 2019, 18, 620-626.	13.3	501
65	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
66	Zn_{0.35}Co_{0.65}O â€" A Stable and Highly Active Oxygen Evolution Catalyst Formed by Zinc Leaching and Tetrahedral Coordinated Cobalt in Wurtzite Structure. Advanced Energy Materials, 2019, 9, 1900328.	10.2	41
67	Spindle-like Fe7S8/N-doped carbon nanohybrids for high-performance sodium ion battery anodes. Nano Research, 2019, 12, 695-700.	5.8	50
68	Structural characterization of Zr-doped ZnO films deposited on quartz substrates by reactive radio frequency magnetron co-sputtering. Thin Solid Films, 2018, 651, 42-47.	0.8	7
69	Gaâ€"Doped Ptâ€"Ni Octahedral Nanoparticles as a Highly Active and Durable Electrocatalyst for Oxygen Reduction Reaction. Nano Letters, 2018, 18, 2450-2458.	4.5	125
70	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. Journal of the American Chemical Society, 2018, 140, 16676-16684.	6.6	85
71	Multiple Heterojunction in Single Titanium Dioxide Nanoparticles for Novel Metal-Free Photocatalysis. Nano Letters, 2018, 18, 4257-4262.	4.5	45
72	Oxygen-deficient triple perovskites as highly active and durable bifunctional electrocatalysts for oxygen electrode reactions. Science Advances, 2018, 4, eaap9360.	4.7	195

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73	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. Chemistry of Materials, 2017, 29, 1684-1694.	3.2	479
74	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
75	Interfacial Metalâ€“Oxide Interactions in Resistive Switching Memories. ACS Applied Materials & Interfaces, 2017, 9, 19287-19295.	4.0	103
76	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
77	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
78	Electrochemical Tantalum Oxide for Resistive Switching Memories. Advanced Materials, 2017, 29, 1703357.	11.1	69
79	Highly Stable Iron- and Manganese-Based Cathodes for Long-Lasting Sodium Rechargeable Batteries. Chemistry of Materials, 2016, 28, 7241-7249.	3.2	66
80	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
81	Bismuth oxide as a high capacity anode material for sodium-ion batteries. Chemical Communications, 2016, 52, 11775-11778.	2.2	51
82	Discharging a Li-S battery with ultra-high sulphur content cathode using a redox mediator. Scientific Reports, 2016, 6, 32433.	1.6	47
83	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
84	Electronically modified Pd catalysts supported on N-doped carbon for the dehydrogenation of formic acid. International Journal of Hydrogen Energy, 2016, 41, 15453-15461.	3.8	60
85	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
86	Adsorption of rare earth metals (Sr²⁺ and La³⁺) from aqueous solution by Mg-aminoclayâ€“humic acid [MgACâ€“HA] complexes in batch mode. RSC Advances, 2016, 6, 1324-1332.	1.7	7
87	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
88	Carbon-Supported Ordered Pt-Ti Alloy Nanoparticles as Durable Oxygen Reduction Reaction Electrocatalyst for Polymer Electrolyte Membrane Fuel Cells. Journal of Electrochemical Science and Technology, 2016, 7, 269-276.	0.9	1
89	Carbon-Supported Ordered Pt-Ti Alloy Nanoparticles as Durable Oxygen Reduction Reaction Electrocatalyst for Polymer Electrolyte Membrane Fuel Cells. Journal of Electrochemical Science and Technology, 2016, 7, 269-276.	0.9	4
90	Highly Durable and Active PtFe Nanocatalyst for Electrochemical Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 15478-15485.	6.6	517

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91	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
92	Effect of oleylamine concentration on the structure and oxygen reduction activity of carbon-supported surface-Pt-enriched Pt 3 Au electrocatalysts. Journal of Power Sources, 2015, 290, 130-135.	4.0	6
93	Hollow Nanostructured Metal Silicates with Tunable Properties for Lithium Ion Battery Anodes. ACS Applied Materials & Interfaces, 2015, 7, 25725-25732.	4.0	71
94	Hybrid Cellular Nanosheets for High-Performance Lithium-Ion Battery Anodes. Journal of the American Chemical Society, 2015, 137, 11954-11961.	6.6	114
95	Structural investigation of SnO₂ catalytic nanoparticles doped with F and Sb. Surface and Interface Analysis, 2014, 46, 1090-1093.	0.8	4
96	Effects of Self-Catalyzed Polyaniline Coating on the Electrochemical Performance of 0.4Li2MnO3{middle dot}0.6LiMn0.33Ni0.33Co0.33O2 Electrodes. ECS Electrochemistry Letters, 2014, 4, A15-A17.	1.9	3
97	Is Li₄Ti₅O₁₂a solid-electrolyte-interphase-free electrode material in Li-ion batteries? Reactivity between the Li₄Ti₅O₁₂electrode and electrolyte. Journal of Materials Chemistry A, 2014, 2, 631-636.	5.2	100
98	Pd nanocrystals on WC as a synergistic electrocatalyst for hydrogen oxidation reactions. Physical Chemistry Chemical Physics, 2013, 15, 2125.	1.3	13
99	Synthesis of nanobranched TiO2 nanotubes and their application to dye-sensitized solar cells. Current Applied Physics, 2013, 13, 252-255.	1.1	13
100	Reversible Surface Segregation of Pt in a Pt₃Au/C Catalyst and Its Effect on the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2013, 117, 9164-9170.	1.5	37
101	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
102	Hydrogen Oxidation Reaction Activity of Sub-Monolayer Pt-Shell/Pd-Core Nanoparticles. Journal of the Electrochemical Society, 2013, 160, H62-H66.	1.3	2
103	Oxygen Reduction Reaction of Pt Supported on Y-Doped SrTiO3. Electrochemical and Solid-State Letters, 2012, 15, B61.	2.2	3
104	Selective deposition of Pt onto supported metal clusters for fuel cell electrocatalysts. Nanoscale, 2012, 4, 6461.	2.8	16
105	Surface Structures and Electrochemical Activities of PtRu Overlayers on Ir Nanoparticles. ACS Catalysis, 2012, 2, 739-745.	5.5	9
106	Development of a galvanostatic analysis technique as an in-situ diagnostic tool for PEMFC single cells and stacks. International Journal of Hydrogen Energy, 2012, 37, 5891-5900.	3.8	40
107	Pt3Y electrocatalyst for oxygen reduction reaction in proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2012, 37, 9758-9765.	3.8	47
108	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

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109	Application of TGA techniques to analyze the compositional and structural degradation of PEMFC MEAs. Polymer Degradation and Stability, 2012, 97, 1010-1016.	2.7	34
110	Enhanced stability and activity of Ptâ€“Y alloy catalysts for electrocatalytic oxygen reduction. Chemical Communications, 2011, 47, 11414.	2.2	94
111	Surface Structures and Electrochemical Activities of Pt Overlayers on Ir Nanoparticles. Langmuir, 2011, 27, 3128-3137.	1.6	21
112	Effect of Nafion ionomer and catalyst in cathode layers for the direct formic acid fuel cell with complex capacitance analysis on the ionic resistance. Electrochimica Acta, 2011, , .	2.6	3
113	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
114	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
115	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
116	Catalytic Reactions in Direct Ethanol Fuel Cells. Angewandte Chemie - International Edition, 2011, 50, 2270-2274.	7.2	98
117	Effect of PtRu alloying degree on electrocatalytic activities and stabilities. Applied Catalysis B: Environmental, 2011, 102, 334-342.	10.8	40
118	Particle size effects of PtRu nanoparticles embedded in TiO2 on methanol electrooxidation. Electrochimica Acta, 2010, 55, 7939-7944.	2.6	23
119	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
120	Performance degradation and microstructure changes in freezeâ€“thaw cycling for PEMFC MEAs with various initial microstructures. International Journal of Hydrogen Energy, 2010, 35, 12888-12896.	3.8	39
121	Electrocatalytic properties of Pd clusters on Au nanoparticles in formic acid electro-oxidation. Electrochimica Acta, 2010, 55, 4339-4345.	2.6	39
122	Effect of Surface Segregation on the Methanol Oxidation Reaction in Carbon-Supported Ptâˆ’Ru Alloy Nanoparticles. Langmuir, 2010, 26, 9123-9129.	1.6	44
123	Effects of particle size on surface electronic and electrocatalytic properties of Pt/TiO₂nanocatalysts. Chemical Communications, 2010, 46, 794-796.	2.2	77
124	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
125	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
126	PtRu-Modified Au Nanoparticles as Electrocatalysts for Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2009, 156, B1150.	1.3	13

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127	Synthesis, characterization and electrocatalytic activity for ethanol oxidation of carbon supported Pt, Ptâ€“Rh, Ptâ€“SnO2 and Ptâ€“Rhâ€“SnO2 nanoclusters. Electrochemistry Communications, 2009, 11, 724-727.	2.3	124
128	PtRu overlayers on Au nanoparticles for methanol electro-oxidation. Catalysis Today, 2009, 146, 20-24.	2.2	12
129	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
130	Methanol electro-oxidation on carbon-supported and Pt-modified Au nanoparticles. Catalysis Today, 2008, 132, 127-131.	2.2	28
131	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
132	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
133	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
134	Electrocatalytic activity of carbon-supported Ptâ€“Au nanoparticles for methanol electro-oxidation. Electrochimica Acta, 2007, 52, 5599-5605.	2.6	105
135	Electrical and Optical Characteristics of InGaN/GaN Microdisk LEDs. Electrochemical and Solid-State Letters, 2005, 8, G68.	2.2	3
136	Removal of dry etch damage in p-type GaN by wet etching of sacrificial oxide layer. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 479.	1.6	39
137	Improved light-output and electrical performance of InGaN-based light-emitting diode by microroughening of thep-GaN surface. Journal of Applied Physics, 2003, 93, 9383-9385.	1.1	343
138	Enhanced performances of InGaN-based light-emitting diode by a micro-roughened p-GaN surface using metal clusters. , 2002, , .		3
139	Controlling Multiple Active Sites on Pdâ˘'CeO 2 for Sequential Câ˘'C Crossâ€coupling and Alcohol Oxidation in One Reaction System. ChemCatChem, 0, , .	1.8	1