

Katerina Artyushkova

List of Publications by Year in descending order

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254
papers

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15466

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docs citations

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times ranked

14618
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#	ARTICLE	IF	CITATIONS
1	Synthesisâ€‘structureâ€‘performance correlation for polyanilineâ€‘Meâ€‘C non-precious metal cathode catalysts for oxygen reduction in fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 11392.	6.7	545
2	Chemistry of Multitudinous Active Sites for Oxygen Reduction Reaction in Transition Metalâ€‘Nitrogenâ€‘Carbon Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25917-25928.	1.5	433
3	Multitechnique Characterization of a Polyanilineâ€‘Ironâ€‘Carbon Oxygen Reduction Catalyst. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16001-16013.	1.5	378
4	Feâ€‘Nâ€‘C Oxygen Reduction Fuel Cell Catalyst Derived from Carbendazim: Synthesis, Structure, and Reactivity. <i>Advanced Energy Materials</i> , 2014, 4, 1301735.	10.2	350
5	Density functional theory calculations of XPS binding energy shift for nitrogen-containing graphene-like structures. <i>Chemical Communications</i> , 2013, 49, 2539.	2.2	347
6	Practical guide for curve fitting in x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	287
7	Spectroscopic insights into the nature of active sites in ironâ€‘nitrogenâ€‘carbon electrocatalysts for oxygen reduction in acid. <i>Nano Energy</i> , 2016, 29, 65-82.	8.2	269
8	CO ₂ Electroreduction to Hydrocarbons on Carbon-Supported Cu Nanoparticles. <i>ACS Catalysis</i> , 2014, 4, 3682-3695.	5.5	267
9	Thermally Stable and Regenerable Platinumâ€‘Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8986-8991.	7.2	262
10	Understanding catalysis in a multiphasic two-dimensional transition metal dichalcogenide. <i>Nature Communications</i> , 2015, 6, 8311.	5.8	260
11	Self-Supported Pd ₂ Bi Catalysts for the Electrooxidation of Glycerol in Alkaline Media. <i>Journal of the American Chemical Society</i> , 2014, 136, 3937-3945.	6.6	247
12	Reversible Control of Free Energy and Topography of Nanostructured Surfaces. <i>Journal of the American Chemical Society</i> , 2004, 126, 8904-8905.	6.6	215
13	Polyaniline-derived Non-Precious Catalyst for the Polymer Electrolyte Fuel Cell Cathode. <i>ECS Transactions</i> , 2008, 16, 159-170.	0.3	209
14	Synthesis and characterization of high performing Fe-N-C catalyst for oxygen reduction reaction (ORR) in Alkaline Exchange Membrane Fuel Cells. <i>Journal of Power Sources</i> , 2018, 375, 214-221.	4.0	206
15	Nano-structured non-platinum catalysts for automotive fuel cell application. <i>Nano Energy</i> , 2015, 16, 293-300.	8.2	190
16	Anthracene-Modified Multi-Walled Carbon Nanotubes as Direct Electron Transfer Scaffolds for Enzymatic Oxygen Reduction. <i>ACS Catalysis</i> , 2011, 1, 1683-1690.	5.5	175
17	Entrapment of Enzymes and Carbon Nanotubes in Biologically Synthesized Silica: Glucose Oxidaseâ€‘Catalyzed Direct Electron Transfer. <i>Small</i> , 2008, 4, 357-364.	5.2	171
18	Platinum group metal-free NiMo hydrogen oxidation catalysts: high performance and durability in alkaline exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24433-24443.	5.2	161

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19	XPS Structural Studies of Nano-composite Non-platinum Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>Topics in Catalysis</i> , 2007, 46, 263-275.	1.3	159
20	Effect of pH on the Activity of Platinum Group Metal-Free Catalysts in Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2018, 8, 3041-3053.	5.5	158
21	Performance Durability of Polyaniline-derived Non-precious Cathode Catalysts. <i>ECS Transactions</i> , 2009, 25, 1299-1311.	0.3	150
22	Iron based catalysts from novel low-cost organic precursors for enhanced oxygen reduction reaction in neutral media microbial fuel cells. <i>Energy and Environmental Science</i> , 2016, 9, 2346-2353.	15.6	147
23	Binding energy shifts for nitrogen-containing graphene-based electrocatalysts – experiments and DFT calculations. <i>Surface and Interface Analysis</i> , 2016, 48, 293-300.	0.8	147
24	Volcano Trend in Electrocatalytic CO ₂ Reduction Activity over Atomically Dispersed Metal Sites on Nitrogen-Doped Carbon. <i>ACS Catalysis</i> , 2019, 9, 10426-10439.	5.5	142
25	Practical guides for x-ray photoelectron spectroscopy: First steps in planning, conducting, and reporting XPS measurements. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	137
26	Oxygen Binding to Active Sites of Fe-N-C ORR Electrocatalysts Observed by Ambient-Pressure XPS. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2836-2843.	1.5	135
27	A family of Fe-N-C oxygen reduction electrocatalysts for microbial fuel cell (MFC) application: Relationships between surface chemistry and performances. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 24-33.	10.8	135
28	Morphological Attributes Govern Carbon Dioxide Reduction on N-Doped Carbon Electrodes. <i>Joule</i> , 2019, 3, 1719-1733.	11.7	132
29	Air Breathing Cathodes for Microbial Fuel Cell using Mn-, Fe-, Co- and Ni-containing Platinum Group Metal-free Catalysts. <i>Electrochimica Acta</i> , 2017, 231, 115-124.	2.6	131
30	Cyanamide-derived non-precious metal catalyst for oxygen reduction. <i>Electrochemistry Communications</i> , 2010, 12, 1792-1795.	2.3	130
31	A Hybrid DNA-Templated Gold Nanocluster For Enhanced Enzymatic Reduction of Oxygen. <i>Journal of the American Chemical Society</i> , 2015, 137, 11678-11687.	6.6	128
32	Core Level Shifts of Hydrogenated Pyridinic and Pyrrolic Nitrogen in the Nitrogen-Containing Graphene-Based Electrocatalysts: In-Plane vs Edge Defects. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29225-29232.	1.5	123
33	The effects of carbon electrode surface properties on bacteria attachment and start up time of microbial fuel cells. <i>Carbon</i> , 2014, 67, 128-139.	5.4	122
34	Non-precious oxygen reduction catalysts prepared by high-pressure pyrolysis for low-temperature fuel cells. <i>Applied Catalysis B: Environmental</i> , 2009, 92, 209-216.	10.8	117
35	XPS guide: Charge neutralization and binding energy referencing for insulating samples. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	114
36	Insights on the extraordinary tolerance to alcohols of Fe-N-C cathode catalysts in highly performing direct alcohol fuel cells. <i>Nano Energy</i> , 2017, 34, 195-204.	8.2	113

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37	Growth of Phthalocyanine Doped and Undoped Nanotubes Using Mild Synthesis Conditions for Development of Novel Oxygen Reduction Catalysts. ACS Applied Materials & Interfaces, 2010, 2, 3295-3302.	4.0	110
38	CuCo ₂ O ₄ ORR/OER Bi-Functional Catalyst: Influence of Synthetic Approach on Performance. Journal of the Electrochemical Society, 2015, 162, F449-F454.	1.3	104
39	Fe-N-C Catalyst Graphitic Layer Structure and Fuel Cell Performance. ACS Energy Letters, 2017, 2, 1489-1493.	8.8	104
40	Role of Nitrogen Moieties in N-Doped 3D-Graphene Nanosheets for Oxygen Electroreduction in Acidic and Alkaline Media. ACS Applied Materials & Interfaces, 2018, 10, 11623-11632.	4.0	104
41	A mechanistic study of 4-aminoantipyrine and iron derived non-platinum group metal catalyst on the oxygen reduction reaction. Electrochimica Acta, 2013, 90, 656-665.	2.6	102
42	Parameters characterization and optimization of activated carbon (AC) cathodes for microbial fuel cell application. Bioresource Technology, 2014, 163, 54-63.	4.8	102
43	Nickel-copper supported on a carbon black hydrogen oxidation catalyst integrated into an anion-exchange membrane fuel cell. Sustainable Energy and Fuels, 2018, 2, 2268-2275.	2.5	102
44	High Performance and Cost-Effective Direct Methanol Fuel Cells: Fe-N-C Methanol-Tolerant Oxygen Reduction Reaction Catalysts. ChemSusChem, 2016, 9, 1986-1995.	3.6	100
45	Computational and experimental evidence for a new TM-N ₃ /C moiety family in non-PGM electrocatalysts. Physical Chemistry Chemical Physics, 2015, 17, 17785-17789.	1.3	98
46	Misconceptions in interpretation of nitrogen chemistry from x-ray photoelectron spectra. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	96
47	Size effects on the thermal conductivity of amorphous silicon thin films. Physical Review B, 2016, 93, .	1.1	95
48	Highly active and durable templated non-PGM cathode catalysts derived from iron and aminoantipyrine. Electrochemistry Communications, 2012, 22, 53-56.	2.3	94
49	Surface Modification of Microbial Fuel Cells Anodes: Approaches to Practical Design. Electrochimica Acta, 2014, 134, 116-126.	2.6	89
50	Influence of anode surface chemistry on microbial fuel cell operation. Bioelectrochemistry, 2015, 106, 141-149.	2.4	88
51	Understanding PGM-free catalysts by linking density functional theory calculations and structural analysis: Perspectives and challenges. Current Opinion in Electrochemistry, 2018, 9, 137-144.	2.5	85
52	Predictive Modeling of Electrocatalyst Structure Based on Structure-to-Property Correlations of X-ray Photoelectron Spectroscopic and Electrochemical Measurements. Langmuir, 2008, 24, 9082-9088.	1.6	84
53	Novel highly active and selective Fe-N-C oxygen reduction electrocatalysts derived from in-situ polymerization pyrolysis. Nano Energy, 2017, 38, 201-209.	8.2	84
54	Performance, methanol tolerance and stability of Fe-aminobenzimidazole derived catalyst for direct methanol fuel cells. Journal of Power Sources, 2016, 319, 235-246.	4.0	83

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55	High catalytic activity and pollutants resistivity using Fe-AAPyr cathode catalyst for microbial fuel cell application. <i>Scientific Reports</i> , 2015, 5, 16596.	1.6	82
56	Elevated Concentrations of U and Co-occurring Metals in Abandoned Mine Wastes in a Northeastern Arizona Native American Community. <i>Environmental Science & Technology</i> , 2015, 49, 8506-8514.	4.6	82
57	Templated non-PGM cathode catalysts derived from iron and poly(ethyleneimine) precursors. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 300-306.	10.8	81
58	Graphene-Riched Co ₉ S ₈ -N-C Non-Precious Metal Catalyst for Oxygen Reduction in Alkaline Media. <i>ECS Transactions</i> , 2011, 41, 1709-1717.	0.3	79
59	PGM-free Fe-N-C catalysts for oxygen reduction reaction: Catalyst layer design. <i>Journal of Power Sources</i> , 2016, 326, 43-49.	4.0	79
60	Selective Aerobic Oxidation of Alcohols over Atomically Dispersed Non-Precious Metal Catalysts. <i>ChemSusChem</i> , 2017, 10, 359-362.	3.6	79
61	Original Mechanochemical Synthesis of Non-Platinum Group Metals Oxygen Reduction Reaction Catalysts Assisted by Sacrificial Support Method. <i>Electrochimica Acta</i> , 2015, 179, 154-160.	2.6	78
62	Trapping of Mobile Pt Species by PdO Nanoparticles under Oxidizing Conditions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2089-2093.	2.1	77
63	Highly stable precious metal-free cathode catalyst for fuel cell application. <i>Journal of Power Sources</i> , 2016, 327, 557-564.	4.0	76
64	Double-Chamber Microbial Fuel Cell with a Non-Platinum-Group Metal Fe-N-C Cathode Catalyst. <i>ChemSusChem</i> , 2015, 8, 828-834.	3.6	75
65	Effects of Cathode Corrosion on Through-Plane Water Transport in Proton Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2013, 160, F980-F993.	1.3	69
66	Nitrogen-Doped Graphene Oxide Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Nano Materials</i> , 2019, 2, 1675-1682.	2.4	69
67	Structure-to-property relationships in fuel cell catalyst supports: Correlation of surface chemistry and morphology with oxidation resistance of carbon blacks. <i>Journal of Power Sources</i> , 2012, 214, 303-313.	4.0	67
68	Design of Iron(II) Phthalocyanine-Derived Oxygen Reduction Electrocatalysts for High-Power-Density Microbial Fuel Cells. <i>ChemSusChem</i> , 2017, 10, 3243-3251.	3.6	67
69	Surface characterization and direct electrochemistry of redox copper centers of bilirubin oxidase from fungi <i>Myrothecium verrucaria</i> . <i>Bioelectrochemistry</i> , 2008, 74, 101-110.	2.4	63
70	Influence of platinum group metal-free catalyst synthesis on microbial fuel cell performance. <i>Journal of Power Sources</i> , 2018, 375, 11-20.	4.0	62
71	Mechanistic studies of oxygen reduction on Fe-PEI derived non-PGM electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 179-186.	10.8	61
72	Nano-structured Pd-Sn catalysts for alcohol electro-oxidation in alkaline medium. <i>Electrochemistry Communications</i> , 2015, 57, 48-51.	2.3	61

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73	Operando XAFS study of carbon supported Ni, NiZn, and Co catalysts for hydrazine electrooxidation for use in anion exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2015, 163, 116-122.	2.6	61
74	Highly-active Pd-Cu electrocatalysts for oxidation of ubiquitous oxygenated fuels. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 76-85.	10.8	61
75	Nano-structured platinum group metal-free catalysts and their integration in fuel cell electrode architectures. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1139-1147.	10.8	61
76	Fe-carbon nitride Core-shell electrocatalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016, 222, 1778-1791.	2.6	60
77	Direct synthesis of platinum group metal-free Fe-N-C catalyst for oxygen reduction reaction in alkaline media. <i>Electrochemistry Communications</i> , 2016, 72, 140-143.	2.3	60
78	Platinum group metal-free electrocatalysts: Effects of synthesis on structure and performance in proton-exchange membrane fuel cell cathodes. <i>Journal of Power Sources</i> , 2017, 348, 30-39.	4.0	60
79	Novel dual templating approach for preparation of highly active Fe-N-C electrocatalyst for oxygen reduction. <i>Electrochimica Acta</i> , 2017, 224, 49-55.	2.6	60
80	Spectroscopic Investigation of Interfacial Interaction of Manganese Oxide with Triclosan, Aniline, and Phenol. <i>Environmental Science & Technology</i> , 2016, 50, 10978-10987.	4.6	59
81	Highly active and selective nickel molybdenum catalysts for direct hydrazine fuel cell. <i>Electrochimica Acta</i> , 2016, 215, 420-426.	2.6	59
82	Proliferation of Faulty Materials Data Analysis in the Literature. <i>Microscopy and Microanalysis</i> , 2020, 26, 1-2.	0.2	59
83	Identification of chemical components in XPS spectra and images using multivariate statistical analysis methods. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 121, 33-55.	0.8	58
84	Investigating the Nature of the Active Sites for the CO ₂ Reduction Reaction on Carbon-Based Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 7668-7678.	5.5	58
85	Surface Modification for Enhanced Biofilm Formation and Electron Transport in <i>Shewanella</i> Anodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, H597-H603.	1.3	57
86	Glycerol electrooxidation on self-supported Pd ₁ Sn _x nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 429-435.	10.8	54
87	Mechanism of Oxygen Reduction Reaction on Transition Metal-Nitrogen-Carbon Catalysts: Establishing the Role of Nitrogen-containing Active Sites. <i>ACS Applied Energy Materials</i> , 2018, 1, 5948-5953.	2.5	54
88	Cathode materials for ceramic based microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14706-14715.	3.8	53
89	Quantification of PVC-PMMA polymer blend compositions by XPS in the presence of x-ray degradation effects. <i>Surface and Interface Analysis</i> , 2001, 31, 352-361.	0.8	51
90	Electrocatalytic Oxygen Reduction Activities of Thiol-Protected Nanomolecules Ranging in Size from Au ₂₈ (SR) ₂₀ to Au ₂₇₉ (SR) ₈₄ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 24809-24817.	1.5	50

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91	Thermally Stable and Regenerable Platinum-Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. <i>Angewandte Chemie</i> , 2017, 129, 9114-9119.	1.6	49
92	Probing the molecular structure of antimicrobial peptide-mediated silica condensation using X-ray photoelectron spectroscopy. <i>Journal of Materials Chemistry</i> , 2012, 22, 9875.	6.7	48
93	Nanostructured metal-N-C electrocatalysts for CO ₂ reduction and hydrogen evolution reactions. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 512-520.	10.8	48
94	Oriented Monolayers Prepared from Lyotropic Chromonic Liquid Crystal. <i>Langmuir</i> , 2005, 21, 2300-2307.	1.6	46
95	Borohydride-tolerant oxygen electroreduction catalyst for mixed-reactant Swiss-roll direct borohydride fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14384.	5.2	46
96	Chemically specific identification of carbon in XPS imaging using Multivariate Auger Feature Imaging (MAFI). <i>Carbon</i> , 2016, 107, 190-197.	5.4	46
97	Post Gold King Mine Spill Investigation of Metal Stability in Water and Sediments of the Animas River Watershed. <i>Environmental Science & Technology</i> , 2016, 50, 11539-11548.	4.6	45
98	High Performance Platinum Group Metal-Free Cathode Catalysts for Microbial Fuel Cell (MFC). <i>Journal of the Electrochemical Society</i> , 2017, 164, H3041-H3046.	1.3	45
99	Structure and Electrochemical Properties of Electrocatalysts for NADH Oxidation. <i>Electroanalysis</i> , 2010, 22, 799-806.	1.5	44
100	Nickel-based electrocatalysts for ammonia borane oxidation: enabling materials for carbon-free-fuel direct liquid alkaline fuel cell technology. <i>Nano Energy</i> , 2017, 37, 248-259.	8.2	44
101	Role of Surface Chemistry on Catalyst/Ionomer Interactions for Transition Metal-Nitrogen-Carbon Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 68-77.	2.5	44
102	Correlations between Synthesis and Performance of Fe-Based PGM-Free Catalysts in Acidic and Alkaline Media: Evolution of Surface Chemistry and Morphology. <i>ACS Applied Energy Materials</i> , 2019, 2, 5406-5418.	2.5	44
103	Platinum Supported on NbRu _y O _z as Electrocatalyst for Ethanol Oxidation in Acid and Alkaline Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3043-3056.	1.5	43
104	Nitrogen-Doped Three-Dimensional Graphene-Supported Palladium Nanocomposites: High-Performance Cathode Catalysts for Oxygen Reduction Reactions. <i>ACS Catalysis</i> , 2017, 7, 6609-6618.	5.5	43
105	Relationship between surface chemistry, biofilm structure, and electron transfer in <i>Shewanella</i> anodes. <i>Biointerphases</i> , 2015, 10, 019013.	0.6	42
106	Experimental and Theoretical Trends of PGM-Free Electrocatalysts for the Oxygen Reduction Reaction with Different Transition Metals. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3136-F3142.	1.3	42
107	Multivariate image analysis methods applied to XPS imaging data sets. <i>Surface and Interface Analysis</i> , 2002, 33, 185-195.	0.8	40
108	Design of Novel Graphene Materials as a Support for Palladium Nanoparticles: Highly Active Catalysts towards Ethanol Electrooxidation. <i>Electrochimica Acta</i> , 2016, 203, 144-153.	2.6	40

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109	Uranium mobility and accumulation along the Rio Paguete, Jackpile Mine in Laguna Pueblo, NM. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 605-621.	1.7	39
110	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. <i>Science Advances</i> , 2016, 2, e1501178.	4.7	36
111	Hierarchically Structured Non-PGM Oxygen Reduction Electrocatalyst Based on Microemulsion-Templated Silica and Pyrolyzed Iron and Cyanamide Precursors. <i>Electrocatalysis</i> , 2014, 5, 241-247.	1.5	35
112	Modeling of Low-Temperature Fuel Cell Electrodes Using Non-Precious Metal Catalysts. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1253-F1261.	1.3	35
113	Introduction to topical collection: Reproducibility challenges and solutions with a focus on guides to XPS analysis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	35
114	Mechanism Study of Hydrazine Electrooxidation Reaction on Nickel Oxide Surface in Alkaline Electrolyte by In Situ XAFS. <i>Journal of the Electrochemical Society</i> , 2016, 163, H951-H957.	1.3	34
115	Tolerance of non-platinum group metals cathodes proton exchange membrane fuel cells to air contaminants. <i>Journal of Power Sources</i> , 2016, 324, 556-571.	4.0	34
116	Nanoscale graphite-supported Pt catalysts for oxygen reduction reactions in fuel cells. <i>Electrochimica Acta</i> , 2011, 56, 2566-2573.	2.6	33
117	Effect of preparation method on the performance of the Ni/Al ₂ O ₃ catalysts for aqueous-phase reforming of ethanol: Part II-characterization. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18815-18826.	3.8	33
118	Evidence of High Electrocatalytic Activity of Molybdenum Carbide Supported Platinum Nanorafsts. <i>Journal of the Electrochemical Society</i> , 2015, 162, H681-H685.	1.3	32
119	Redox Transformations of As and Se at the Surfaces of Natural and Synthetic Ferric Nontronites: Role of Structural and Adsorbed Fe(II). <i>Environmental Science & Technology</i> , 2017, 51, 11105-11114.	4.6	30
120	PGM-Free ORR Catalysts Designed by Templating PANI-Type Polymers Containing Functional Groups with High Affinity to Iron. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3240-F3245.	1.3	30
121	Synthesis of Nickel-Doped Ceria Catalysts for Selective Acetylene Hydrogenation. <i>ChemCatChem</i> , 2019, 11, 1526-1533.	1.8	30
122	Non-PGM membrane electrode assemblies: Optimization for performance. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14676-14682.	3.8	29
123	Selective CO ₂ electroreduction to C ₂ H ₄ on porous Cu films synthesized by sacrificial support method. <i>Journal of CO₂ Utilization</i> , 2017, 19, 137-145.	3.3	29
124	Oxygen Reduction Reaction Electrocatalysts Derived from Iron Salt and Benzimidazole and Aminobenzimidazole Precursors and Their Application in Microbial Fuel Cell Cathodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 5755-5765.	2.5	29
125	Iron-streptomycin derived catalyst for efficient oxygen reduction reaction in ceramic microbial fuel cells operating with urine. <i>Journal of Power Sources</i> , 2019, 425, 50-59.	4.0	29
126	The effects of wastewater types on power generation and phosphorus removal of microbial fuel cells (MFCs) with activated carbon (AC) cathodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21796-21802.	3.8	28

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127	Design of experiments and principal component analysis as Approaches for enhancing performance of gas-diffusional air-breathing bilirubin oxidase cathode. <i>Journal of Power Sources</i> , 2014, 245, 389-397.	4.0	28
128	Surface-modified three-dimensional graphene nanosheets as a stationary phase for chromatographic separation of chiral drugs. <i>Scientific Reports</i> , 2018, 8, 14747.	1.6	28
129	Structural correlations: Design levers for performance and durability of catalyst layers. <i>Journal of Power Sources</i> , 2015, 284, 631-641.	4.0	27
130	Bio-inspired design of electrocatalysts for oxalate oxidation: a combined experimental and computational study of Mn–N–C catalysts. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13235-13244.	1.3	26
131	Highly durable direct hydrazine hydrate anion exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2018, 375, 291-299.	4.0	26
132	Study of degradation and spatial performance of low Pt-loaded proton exchange membrane fuel cells under exposure to sulfur dioxide in an oxidant stream. <i>Journal of Power Sources</i> , 2020, 458, 228032.	4.0	26
133	Data fusion of XPS and AFM images for chemical phase identification in polymer blends. <i>Surface and Interface Analysis</i> , 2009, 41, 119-126.	0.8	25
134	Effect of bicarbonate and phosphate on arsenic release from mining-impacted sediments in the Cheyenne River watershed, South Dakota, USA. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 456-468.	1.7	25
135	Correlative Spectroscopic Imaging: XPS and FT-IR Studies of PVC/PMMA Polymer Blends. <i>Applied Spectroscopy</i> , 2000, 54, 1549-1558.	1.2	24
136	Application of XPS spectral subtraction and multivariate analysis for the characterization of Ar ⁺ ion beam modified polyimide surfaces. <i>Applied Surface Science</i> , 2010, 256, 3204-3210.	3.1	24
137	Implementing PGM-free electrocatalysts in high-temperature polymer electrolyte membrane fuel cells. <i>Electrochemistry Communications</i> , 2018, 93, 91-94.	2.3	24
138	Impact of Corrosion Conditions on Carbon Paper Electrode Morphology and the Performance of a Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A353-A363.	1.3	24
139	Platinum group metal-free oxygen reduction electrocatalysts used in neutral electrolytes for bioelectrochemical reactor applications. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 106-113.	2.5	24
140	Multianalytical Study of the PTFE Content Local Variation of the PEMFC Gas Diffusion Layer. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1305-F1315.	1.3	23
141	Enhancement of Electrocatalytic Oxidation of Glycerol by Plasmonics. <i>ChemElectroChem</i> , 2019, 6, 241-245.	1.7	23
142	Catalysts by pyrolysis: Direct observation of transformations during re-pyrolysis of transition metal-nitrogen-carbon materials leading to state-of-the-art platinum group metal-free electrocatalyst. <i>Materials Today</i> , 2022, 53, 58-70.	8.3	23
143	X-ray Photoelectron Spectroscopy for Characterization of Bionanocomposite Functional Materials for Energy Harvesting Technologies. <i>ChemPhysChem</i> , 2013, 14, 2071-2080.	1.0	22
144	Investigating phosphonate monolayer stability on ALD oxide surfaces. <i>Applied Surface Science</i> , 2014, 288, 98-108.	3.1	22

#	ARTICLE	IF	CITATIONS
145	Poisoning effects of sulfur dioxide in an air stream on spatial proton exchange membrane fuel cell performance. <i>Journal of Power Sources</i> , 2019, 438, 226949.	4.0	22
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