

Plamen Atanasov

List of Publications by Year in descending order

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359
papers

24,618
citations

7251

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docs citations

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times ranked

21595
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing nitrite by iron-nitrogen-carbon oxygen reduction electrocatalyst. <i>Electrochimica Acta</i> , 2022, 402, 139514.	2.6	7
2	Investigation of cathode catalyst layer interfaces evolution during accelerated stress tests for polymer electrolyte fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120810.	10.8	24
3	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
4	Nitrogen and Phosphorus Dual-Doped Silicon Carbide-Derived Carbon/Carbon Nanotube Composite for the Anion-Exchange Membrane Fuel Cell Cathode. <i>ACS Applied Energy Materials</i> , 2022, 5, 2949-2958.	2.5	21
5	Highly Durable and Selective Fe- and Mo-Based Atomically Dispersed Electrocatalysts for Nitrate Reduction to Ammonia via Distinct and Synergized NO ₂ ⁻ Pathways. <i>ACS Catalysis</i> , 2022, 12, 6651-6662.	5.5	58
6	Steering Cu-Based CO ₂ RR Electrocatalysts TM Selectivity: Effect of Hydroxyapatite Acid/Base Moieties in Promoting Formate Production. <i>ACS Energy Letters</i> , 2022, 7, 2304-2310.	8.8	17
7	Oxygen reduction reaction electrocatalysis in neutral media for bioelectrochemical systems. <i>Nature Catalysis</i> , 2022, 5, 473-484.	16.1	53
8	Robust palladium hydride catalyst for electrocatalytic formate formation with high CO tolerance. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121659.	10.8	11
9	Iron(II) phthalocyanine (FePc) over carbon support for oxygen reduction reaction electrocatalysts operating in alkaline electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 93-104.	1.2	29
10	Hidden in plain sight: unlocking the full potential of cyclic voltammetry with the thin-film rotating (ring) disk electrode studies for the investigation of oxygen reduction reaction electrocatalysts. <i>Current Opinion in Electrochemistry</i> , 2021, 25, 100626.	2.5	10
11	Identification of durable and non-durable FeN _x sites in Fe-N-C materials for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2021, 4, 10-19.	16.1	368
12	Fe-N-C Electrocatalysts TM Durability: Effects of Single Atoms TM Mobility and Clustering. <i>ACS Catalysis</i> , 2021, 11, 484-494.	5.5	53
13	Ni(OH) ₂ -free NiCu as a hydrogen evolution and oxidation electrocatalyst. <i>Electrochemistry Communications</i> , 2021, 125, 106999.	2.3	9
14	Catalytic Hybrid Electrocatalytic/Biocatalytic Cascades for Carbon Dioxide Reduction and Valorization. <i>ACS Catalysis</i> , 2021, 11, 5172-5188.	5.5	31
15	Practical demonstration of applicability and efficiency of platinum group metal-free based catalysts in microbial fuel cells for wastewater treatment. <i>Journal of Power Sources</i> , 2021, 491, 229582.	4.0	9
16	How Comparable are Microbial Electrochemical Systems around the Globe? An Electrochemical and Microbiological Cross-Laboratory Study. <i>ChemSusChem</i> , 2021, 14, 2267.	3.6	2
17	Transition Metal Chalcogenides as a Versatile and Tunable Platform for Catalytic CO ₂ and N ₂ Electroreduction. <i>ACS Materials Au</i> , 2021, 1, 6-36.	2.6	55
18	How Comparable are Microbial Electrochemical Systems around the Globe? An Electrochemical and Microbiological Cross-Laboratory Study. <i>ChemSusChem</i> , 2021, 14, 2313-2330.	3.6	13

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19	Aluminum-air batteries: A review of alloys, electrolytes and design. <i>Journal of Power Sources</i> , 2021, 498, 229762.	4.0	74
20	Mapping transition metal-MN4 macrocyclic complex catalysts performance for the critical reactivity descriptors. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100683.	2.5	36
21	Protocol for rapid ammonia detection via surface-enhanced Raman spectroscopy. <i>STAR Protocols</i> , 2021, 2, 100599.	0.5	0
22	Mapping transition metal-“nitrogen”-carbon catalyst performance on the critical descriptor diagram. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100687.	2.5	34
23	Self-Anchored Platinum-Decorated Antimony-Doped-Tin Oxide as a Durable Oxygen Reduction Electrocatalyst. <i>ACS Catalysis</i> , 2021, 11, 7006-7017.	5.5	17
24	Catalysts by pyrolysis: Direct observation of chemical and morphological transformations leading to transition metal-nitrogen-carbon materials. <i>Materials Today</i> , 2021, 47, 53-68.	8.3	30
25	Probing Heterogeneous Degradation of Catalyst in PEM Fuel Cells under Realistic Automotive Conditions with Multi-Modal Techniques. <i>Advanced Energy Materials</i> , 2021, 11, 2101794.	10.2	25
26	Metal Oxide Clusters on Nitrogen-Doped Carbon are Highly Selective for CO ₂ Electroreduction to CO. <i>ACS Catalysis</i> , 2021, 11, 10028-10042.	5.5	37
27	Platinum group metal-free Fe-based (Fe N C) oxygen reduction electrocatalysts for direct alcohol fuel cells. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100756.	2.5	17
28	Graphene-based catalyst for CO ₂ reduction: The critical role of solvents in materials design. <i>Journal of Catalysis</i> , 2021, 404, 512-517.	3.1	6
29	From Hydrogen Manifesto, through Green Deal and Just Transition, to Clean Energy Act. <i>Electrochemical Society Interface</i> , 2021, 30, 57-60.	0.3	7
30	Charge transfer at biotic/abiotic interfaces in biological electrocatalysis. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 175-183.	2.5	12
31	Iron-Nitrogen-Carbon Catalysts for Proton Exchange Membrane Fuel Cells. <i>Joule</i> , 2020, 4, 33-44.	11.7	264
32	Integrating nanostructured Pt-based electrocatalysts in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2020, 478, 228516.	4.0	44
33	Towards defect engineering in hexagonal MoS ₂ nanosheets for tuning hydrogen evolution and nitrogen reduction reactions. <i>Applied Materials Today</i> , 2020, 21, 100812.	2.3	16
34	Graphite Intercalation Compounds Derived by Green Chemistry as Oxygen Reduction Reaction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42678-42685.	4.0	18
35	Facile All-Optical Method for In Situ Detection of Low Amounts of Ammonia. <i>IScience</i> , 2020, 23, 101757.	1.9	12
36	Cathode Catalysts Based on Cobalt- and Nitrogen-Doped Nanocarbon Composites for Anion Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 5375-5384.	2.5	61

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37	Establishing reactivity descriptors for platinum group metal (PGM)-free Fe-N-C catalysts for PEM fuel cells. <i>Energy and Environmental Science</i> , 2020, 13, 2480-2500.	15.6	205
38	Mapping of Heterogeneous Catalyst Degradation in Polymer Electrolyte Fuel Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000623.	10.2	24
39	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electro-catalysts – Part I: High-loading Pt/C and Pt Extended Surface. <i>ChemPhysChem</i> , 2020, 21, 468-468.	1.0	2
40	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
41	Effect of Active Site Poisoning on Iron-Nitrogen-Carbon Platinum-Group-Metal-Free Oxygen Reduction Reaction Catalysts Operating in Neutral Media: A Rotating Disk Electrode Study. <i>ChemElectroChem</i> , 2020, 7, 3044-3055.	1.7	19
42	Characterizing Complex Gas-Solid Interfaces with in Situ Spectroscopy: Oxygen Adsorption Behavior on Fe-N-C Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16529-16543.	1.5	20
43	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electro-catalysts – Part I: High-loading Pt/C and Pt Extended Surface. <i>ChemPhysChem</i> , 2020, 21, 469-475.	1.0	19
44	Metal-Nitrogen-Carbon Electrocatalysts for CO ₂ Reduction towards Syngas Generation. <i>ChemSusChem</i> , 2020, 13, 1688-1698.	3.6	36
45	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electro-catalysts – Part II: Effect of Platinum Dispersion. <i>ChemPhysChem</i> , 2020, 21, 1331-1339.	1.0	4
46	Spectro-Electrochemical Microfluidic Platform for Monitoring Multi-Step Cascade Reactions. <i>ChemElectroChem</i> , 2019, 6, 246-251.	1.7	10
47	Enhancement of Electrocatalytic Oxidation of Glycerol by Plasmonics. <i>ChemElectroChem</i> , 2019, 6, 241-245.	1.7	23
48	Multi-functional microbial fuel cells for power, treatment and electro-osmotic purification of urine. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2098-2106.	1.6	21
49	Understanding the Oxygen Reduction Reaction Activity and Oxidative Stability of Pt Supported on Nb-Doped TiO ₂ . <i>ChemSusChem</i> , 2019, 12, 3409-3409.	3.6	0
50	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
51	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
52	Impedance Spectroscopy Characterization of PEM Fuel Cells with Fe-N-C-Based Cathodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, F653-F660.	1.3	11
53	Understanding Active Sites in Pyrolyzed Fe-N-C Catalysts for Fuel Cell Cathodes by Bridging Density Functional Theory Calculations and ⁵⁷ Fe Mössbauer Spectroscopy. <i>ACS Catalysis</i> , 2019, 9, 9359-9371.	5.5	167
54	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

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55	Nitrogen-Doped Graphene Oxide Electrocatalysts for the Oxygen Reduction Reaction. ACS Applied Nano Materials, 2019, 2, 1675-1682.	2.4	69
56	Bioelectrochemistry—An Electrifying Experience Over 70 Years. ChemElectroChem, 2019, 6, 5356-5357.	1.7	0
57	Morphological Attributes Govern Carbon Dioxide Reduction on N-Doped Carbon Electrodes. Joule, 2019, 3, 1719-1733.	11.7	132
58	Understanding the Role of Interfaces for Water Management in Platinum Group Metal-Free Electrodes in Polymer Electrolyte Fuel Cells. ACS Applied Energy Materials, 2019, 2, 3542-3553.	2.5	31
59	Modular Microfluidic Paper-Based Devices for Multimodal Cascade Catalysis. ChemElectroChem, 2019, 6, 2448-2455.	1.7	8
60	Kinetic Isotopic Effect Studies of Iron–Nitrogen–Carbon Electrocatalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2019, 123, 11476-11483.	1.5	12
61	Understanding the Oxygen Reduction Reaction Activity and Oxidative Stability of Pt Supported on Nb-Doped TiO ₂ . ChemSusChem, 2019, 12, 3468-3480.	3.6	39
62	Iron-streptomycin derived catalyst for efficient oxygen reduction reaction in ceramic microbial fuel cells operating with urine. Journal of Power Sources, 2019, 425, 50-59.	4.0	29
63	Analysis of the effect of catalyst layer thickness on the performance and durability of platinum group metal-free catalysts for polymer electrolyte membrane fuel cells. Sustainable Energy and Fuels, 2019, 3, 3375-3386.	2.5	28
64	Increased power generation in supercapacitive microbial fuel cell stack using Fe N C cathode catalyst. Journal of Power Sources, 2019, 412, 416-424.	4.0	42
65	Ceramic Microbial Fuel Cells Stack: power generation in standard and supercapacitive mode. Scientific Reports, 2018, 8, 3281.	1.6	55
66	Design of Pd-Pb Catalysts for Glycerol and Ethylene Glycol Electrooxidation in Alkaline Medium. Electrocatalysis, 2018, 9, 480-485.	1.5	20
67	Effect of pH on the Activity of Platinum Group Metal-Free Catalysts in Oxygen Reduction Reaction. ACS Catalysis, 2018, 8, 3041-3053.	5.5	158
68	Inhibition of Surface Chemical Moieties by Tris(hydroxymethyl)aminomethane: A Key to Understanding Oxygen Reduction on Iron–Nitrogen–Carbon Catalysts. ACS Applied Energy Materials, 2018, 1, 1942-1949.	2.5	18
69	Enhancement of microbial fuel cell performance by introducing a nano-composite cathode catalyst. Electrochimica Acta, 2018, 265, 56-64.	2.6	79
70	Microbial desalination cell with sulfonated sodium poly(ether ether ketone) as cation exchange membranes for enhancing power generation and salt reduction. Bioelectrochemistry, 2018, 121, 176-184.	2.4	31
71	Power generation in microbial fuel cells using platinum group metal-free cathode catalyst: Effect of the catalyst loading on performance and costs. Journal of Power Sources, 2018, 378, 169-175.	4.0	85
72	Role of Surface Chemistry on Catalyst/Ionomer Interactions for Transition Metal–Nitrogen–Carbon Electrocatalysts. ACS Applied Energy Materials, 2018, 1, 68-77.	2.5	44

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73	Iron-Nicarbazin derived platinum group metal-free electrocatalyst in scalable-size air-breathing cathodes for microbial fuel cells. <i>Electrochimica Acta</i> , 2018, 277, 127-135.	2.6	27
74	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
75	Understanding PGM-free catalysts by linking density functional theory calculations and structural analysis: Perspectives and challenges. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 137-144.	2.5	85
76	Role of Nitrogen Moieties in N-Doped 3D-Graphene Nanosheets for Oxygen Electroreduction in Acidic and Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11623-11632.	4.0	104
77	Highly durable direct hydrazine hydrate anion exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2018, 375, 291-299.	4.0	26
78	3D-Graphene supports for palladium nanoparticles: Effect of micro/macropores on oxygen electroreduction in Anion Exchange Membrane Fuel Cells. <i>Journal of Power Sources</i> , 2018, 375, 255-264.	4.0	30
79	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
80	Improved power and long term performance of microbial fuel cell with Fe-N-C catalyst in air-breathing cathode. <i>Energy</i> , 2018, 144, 1073-1079.	4.5	71
81	Investigation of patterned and non-patterned poly(2,6-dimethyl 1,4-phenylene) oxide based anion exchange membranes for enhanced desalination and power generation in a microbial desalination cell. <i>Solid State Ionics</i> , 2018, 314, 141-148.	1.3	30
82	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
83	Porous Hollow PtNi/C Electrocatalysts: Carbon Support Considerations To Meet Performance and Stability Requirements. <i>ACS Catalysis</i> , 2018, 8, 893-903.	5.5	67
84	Hydrothermal Synthesis of Platinum-Group-Metal-Free Catalysts: Structural Elucidation and Oxygen Reduction Catalysis. <i>ChemElectroChem</i> , 2018, 5, 1848-1853.	1.7	8
85	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
86	Structure of Active Sites of Fe-N-C Nano-Catalysts for Alkaline Exchange Membrane Fuel Cells. <i>Nanomaterials</i> , 2018, 8, 965.	1.9	13
87	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
88	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
89	Direct observations of liquid water formation at nano- and micro-scale in platinum group metal-free electrodes by operando X-ray computed tomography. <i>Materials Today Energy</i> , 2018, 9, 187-197.	2.5	55
90	Implementing PGM-free electrocatalysts in high-temperature polymer electrolyte membrane fuel cells. <i>Electrochemistry Communications</i> , 2018, 93, 91-94.	2.3	24

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91	Fuel Cells: A Call for Total Design. <i>Joule</i> , 2018, 2, 1210-1211.	11.7	4
92	Nickel-copper supported on a carbon black hydrogen oxidation catalyst integrated into an anion-exchange membrane fuel cell. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2268-2275.	2.5	102
93	Fully Synthetic Approach toward Transition Metal-Nitrogen-Carbon Oxygen Reduction Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 3802-3806.	2.5	9
94	Cascade Kinetics of an Artificial Metabolon by Molecular Dynamics and Kinetic Monte Carlo. <i>ACS Catalysis</i> , 2018, 8, 7719-7726.	5.5	13
95	Resolving Challenges of Mass Transport in Non Pt-Group Metal Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, F589-F596.	1.3	12
96	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
97	Integration of Platinum Group Metal-Free Catalysts and Bilirubin Oxidase into a Hybrid Material for Oxygen Reduction: Interplay of Chemistry and Morphology. <i>ChemSusChem</i> , 2017, 10, 1534-1542.	3.6	8
98	NiO/Nb ₂ O ₅ /C Hydrazine Electrooxidation Catalysts for Anion Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F229-F234.	1.3	13
99	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
100	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
101	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
102	Three-dimensional graphene nanosheets as cathode catalysts in standard and supercapacitive microbial fuel cell. <i>Journal of Power Sources</i> , 2017, 356, 371-380.	4.0	108
103	Novel Hybrid Catalyst for the Oxidation of Organic Acids: Pd Nanoparticles Supported on Mn-Graphene Nanosheets. <i>ChemElectroChem</i> , 2017, 4, 2336-2344.	1.7	5
104	Improving the Performance of Methanol Biofuel Cells Utilizing an Enzyme Cascade Bioanode with DNA-Bridged Substrate Channeling. <i>ACS Energy Letters</i> , 2017, 2, 1435-1438.	8.8	28
105	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
106	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
107	Fe-N-C Catalyst Graphitic Layer Structure and Fuel Cell Performance. <i>ACS Energy Letters</i> , 2017, 2, 1489-1493.	8.8	104
108	Novel highly active and selective Fe-N-C oxygen reduction electrocatalysts derived from in-situ polymerization pyrolysis. <i>Nano Energy</i> , 2017, 38, 201-209.	8.2	84

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109	Outer membrane cytochromes/flavin interactions in <i>Shewanella</i> spp. A molecular perspective. <i>Biointerphases</i> , 2017, 12, 021004.	0.6	24
110	Preface JES Focus Issue on Biological Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, Y3-Y4.	1.3	0
111	Stability of carbon-supported palladium nanoparticles in alkaline media: A case study of graphitized and more amorphous supports. <i>Electrochemistry Communications</i> , 2017, 78, 33-37.	2.3	24
112	Hybrid molecular/enzymatic catalytic cascade for complete electro-oxidation of glycerol using a promiscuous NAD-dependent formate dehydrogenase from <i>Candida boidinii</i> . <i>Chemical Communications</i> , 2017, 53, 5368-5371.	2.2	23
113	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
114	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
115	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
116	Transition metal-nitrogen-carbon catalysts for oxygen reduction reaction in neutral electrolyte. <i>Electrochemistry Communications</i> , 2017, 75, 38-42.	2.3	97
117	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
118	Supercapacitive microbial desalination cells: New class of power generating devices for reduction of salinity content. <i>Applied Energy</i> , 2017, 208, 25-36.	5.1	43
119	Microbial Desalination Cells with Efficient Platinum-Group-Metal-Free Cathode Catalysts. <i>ChemElectroChem</i> , 2017, 4, 3322-3330.	1.7	40
120	Bimetallic platinum group metal-free catalysts for high power generating microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 366, 18-26.	4.0	62
121	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
122	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
123	Selective Aerobic Oxidation of Alcohols over Atomically Dispersed Non-Precious Metal Catalysts. <i>ChemSusChem</i> , 2017, 10, 359-362.	3.6	79
124	Carbon-Based Air-Breathing Cathodes for Microbial Fuel Cells. <i>Catalysts</i> , 2016, 6, 127.	1.6	58
125	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
126	Supercapacitive microbial fuel cell: Characterization and analysis for improved charge storage/delivery performance. <i>Bioresource Technology</i> , 2016, 218, 552-560.	4.8	67

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127	Designed protein aggregates entrapping carbon nanotubes for bioelectrochemical oxygen reduction. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2321-2327.	1.7	8
128	Self-feeding paper based biofuel cell/self-powered hybrid 1/4-supercapacitor integrated system. <i>Biosensors and Bioelectronics</i> , 2016, 86, 459-465.	5.3	59
129	Anodic biofilms as the interphase for electroactive bacterial growth on carbon veil. <i>Biointerphases</i> , 2016, 11, 031013.	0.6	16
130	Evaluation of Pt Alloys as Electrocatalysts for Oxalic Acid Oxidation: A Combined Experimental and Computational Study. <i>Journal of the Electrochemical Society</i> , 2016, 163, H787-H795.	1.3	4
131	Fe-carbon nitride "Core-shell" electrocatalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016, 222, 1778-1791.	2.6	60
132	Promotion of Ammonia Electrooxidation on Pt nanoparticles by Nickel Oxide Support. <i>Electrochimica Acta</i> , 2016, 222, 1455-1463.	2.6	19
133	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
134	Morphological Characterization of ALD and Doping Effects on Mesoporous SnO ₂ Aerogels by XPS and Quantitative SEM Image Analysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9849-9854.	4.0	6
135	Spectroscopic insights into the nature of active sites in iron-nitrogen-carbon electrocatalysts for oxygen reduction in acid. <i>Nano Energy</i> , 2016, 29, 65-82.	8.2	269
136	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
137	Miniaturized supercapacitors: key materials and structures towards autonomous and sustainable devices and systems. <i>Journal of Power Sources</i> , 2016, 326, 717-725.	4.0	82
138	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
139	Gold nanocluster formation using morpholino oligomer as template and assembly agent within hybrid bio-nanomaterials. <i>RSC Advances</i> , 2016, 6, 90624-90630.	1.7	4
140	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
141	Highly stable precious metal-free cathode catalyst for fuel cell application. <i>Journal of Power Sources</i> , 2016, 327, 557-564.	4.0	76
142	High Performance and Cost-Effective Direct Methanol Fuel Cells: Fe-N-C Methanol-Tolerant Oxygen Reduction Reaction Catalysts. <i>ChemSusChem</i> , 2016, 9, 1986-1995.	3.6	100
143	Highly active and selective nickel molybdenum catalysts for direct hydrazine fuel cell. <i>Electrochimica Acta</i> , 2016, 215, 420-426.	2.6	59
144	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

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151	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
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