

Alexey Serov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8704431/publications.pdf>

Version: 2024-02-01

166
papers

11,452
citations

20797

60
h-index

31818

101
g-index

169
all docs

169
docs citations

169
times ranked

9856
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating Oxygen Reduction Active Sites in Pyrolyzed Metal–Nitrogen Coordinated Non-Precious-Metal Electrocatalyst Systems. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8999-9008.	1.5	461
2	Chemistry of Multitudinous Active Sites for Oxygen Reduction Reaction in Transition Metal–Nitrogen–Carbon Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25917-25928.	1.5	433
3	Highly quaternized polystyrene ionomers for high performance anion exchange membrane water electrolysers. <i>Nature Energy</i> , 2020, 5, 378-385.	19.8	372
4	Direct hydrazine fuel cells: A review. <i>Applied Catalysis B: Environmental</i> , 2010, 98, 1-9.	10.8	364
5	Fe–N–C Oxygen Reduction Fuel Cell Catalyst Derived from Carbendazim: Synthesis, Structure, and Reactivity. <i>Advanced Energy Materials</i> , 2014, 4, 1301735.	10.2	350
6	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
7	CO ₂ Electroreduction to Hydrocarbons on Carbon-Supported Cu Nanoparticles. <i>ACS Catalysis</i> , 2014, 4, 3682-3695.	5.5	267
8	Review of non-platinum anode catalysts for DMFC and PEMFC application. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 313-320.	10.8	256
9	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
10	High-performing commercial Fe–N–C cathode electrocatalyst for anion-exchange membrane fuel cells. <i>Nature Energy</i> , 2021, 6, 834-843.	19.8	238
11	Recent achievements in direct ethylene glycol fuel cells (DEGFC). <i>Applied Catalysis B: Environmental</i> , 2010, 97, 1-12.	10.8	226
12	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
13	Nano-structured non-platinum catalysts for automotive fuel cell application. <i>Nano Energy</i> , 2015, 16, 293-300.	8.2	190
14	Metal oxides/CNT nano-composite catalysts for oxygen reduction/oxygen evolution in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 623-627.	10.8	170
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Anode Catalysts for Direct Hydrazine Fuel Cells: From Laboratory Test to an Electric Vehicle. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10336-10339.	7.2	142
20	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
21	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
22	Performance analysis of a non-platinum group metal catalyst based on iron-aminoantipyrine for direct methanol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 297-305.	10.8	113
23	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
24	Self-powered supercapacitive microbial fuel cell: The ultimate way of boosting and harvesting power. <i>Biosensors and Bioelectronics</i> , 2016, 78, 229-235.	5.3	112
25	Indication for a volatile element 114. <i>Radiochimica Acta</i> , 2010, 98, .	0.5	109
26	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
27	Electrooxidation of ethylene glycol and glycerol by platinum-based binary and ternary nano-structured catalysts. <i>Electrochimica Acta</i> , 2012, 66, 295-301.	2.6	107
28	CuCo ₂ O ₄ ORR/OER Bi-Functional Catalyst: Influence of Synthetic Approach on Performance. <i>Journal of the Electrochemical Society</i> , 2015, 162, F449-F454.	1.3	104
29	Fe-N-C Catalyst Graphitic Layer Structure and Fuel Cell Performance. <i>ACS Energy Letters</i> , 2017, 2, 1489-1493.	8.8	104
30	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
31	A mechanistic study of 4-aminoantipyrine and iron derived non-platinum group metal catalyst on the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013, 90, 656-665.	2.6	102
32	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
33	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
34	Transition metal-nitrogen-carbon catalysts for oxygen reduction reaction in neutral electrolyte. <i>Electrochemistry Communications</i> , 2017, 75, 38-42.	2.3	97
35	Highly active and durable templated non-PGM cathode catalysts derived from iron and aminoantipyrine. <i>Electrochemistry Communications</i> , 2012, 22, 53-56.	2.3	94
36	Thermochemical and Physical Properties of Element 112. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3262-3266.	7.2	89

#	ARTICLE	IF	CITATIONS
37	Power generation in microbial fuel cells using platinum group metal-free cathode catalyst: Effect of the catalyst loading on performance and costs. <i>Journal of Power Sources</i> , 2018, 378, 169-175.	4.0	85
38	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
39	Performance, methanol tolerance and stability of Fe-aminobenzimidazole derived catalyst for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2016, 319, 235-246.	4.0	83
40	pH dependence of catalytic activity for ORR of the non-PGM catalyst derived from heat-treated Fe-phenanthroline. <i>Electrochimica Acta</i> , 2013, 87, 361-365.	2.6	82
41	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
42	Aerosol-derived Ni _{1-x} Zn _x electrocatalysts for direct hydrazine fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5512.	1.3	81
43	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
44	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
45	Selective Aerobic Oxidation of Alcohols over Atomically Dispersed Non-Precious Metal Catalysts. <i>ChemSusChem</i> , 2017, 10, 359-362.	3.6	79
46	Enhancement of microbial fuel cell performance by introducing a nano-composite cathode catalyst. <i>Electrochimica Acta</i> , 2018, 265, 56-64.	2.6	79
47	Novel Pd-In catalysts for alcohols electrooxidation in alkaline media. <i>Electrochemistry Communications</i> , 2013, 34, 185-188.	2.3	78
48	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
49	Highly stable precious metal-free cathode catalyst for fuel cell application. <i>Journal of Power Sources</i> , 2016, 327, 557-564.	4.0	76
50	Templated bi-metallic non-PGM catalysts for oxygen reduction. <i>Electrochimica Acta</i> , 2012, 80, 213-218.	2.6	75
51	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
52	Tri-metallic transition metal-nitrogen-carbon catalysts derived by sacrificial support method synthesis. <i>Electrochimica Acta</i> , 2013, 109, 433-439.	2.6	71
53	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
54	Supercapacitive microbial fuel cell: Characterization and analysis for improved charge storage/delivery performance. <i>Bioresource Technology</i> , 2016, 218, 552-560.	4.8	67

#	ARTICLE	IF	CITATIONS
55	Design of Iron(II) Phthalocyanineâ€Derived Oxygen Reduction Electrocatalysts for Highâ€Powerâ€Density Microbial Fuel Cells. <i>ChemSusChem</i> , 2017, 10, 3243-3251.	3.6	67
56	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
57	Progress in development of direct dimethyl ether fuel cells. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 1-10.	10.8	65
58	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
59	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
60	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
61	Nano-structured Pd-Sn catalysts for alcohol electro-oxidation in alkaline medium. <i>Electrochemistry Communications</i> , 2015, 57, 48-51.	2.3	61
62	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
63	Highly-active Pdâ€Cu electrocatalysts for oxidation of ubiquitous oxygenated fuels. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 76-85.	10.8	61
64	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
65	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
66	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
67	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
68	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
69	Highly active and selective nickel molybdenum catalysts for direct hydrazine fuel cell. <i>Electrochimica Acta</i> , 2016, 215, 420-426.	2.6	59
70	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
71	Glycerol electrooxidation on self-supported Pd1Snx nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 429-435.	10.8	54
72	Cathode materials for ceramic based microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14706-14715.	3.8	53

#	ARTICLE	IF	CITATIONS
73	Modification of palladium-based catalysts by chalcogenes for direct methanol fuel cells. <i>Electrochemistry Communications</i> , 2007, 9, 2041-2044.	2.3	52
74	Highly active PdCu catalysts for electrooxidation of 2-propanol. <i>Electrochemistry Communications</i> , 2012, 22, 193-196.	2.3	51
75	Preparation, characterization, and high performance of RuSe/C for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 175, 175-182.	4.0	50
76	Mechanistic Insight into Oxide-Promoted Palladium Catalysts for the Electro-Oxidation of Ethanol. <i>ChemSusChem</i> , 2014, 7, 2351-2357.	3.6	49
77	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
78	Commercial platinum group metal-free cathodic electrocatalysts for highly performed direct methanol fuel cell applications. <i>Journal of Power Sources</i> , 2019, 437, 2269-48.	4.0	48
79	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
80	Mesoporous textured Fe-N-C electrocatalysts as highly efficient cathodes for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2022, 520, 230819.	4.0	46
81	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
82	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
83	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
84	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
85	Gas phase chemical studies of superheavy elements using the Dubna gas-filled recoil separator - Stopping range determination. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 28-35.	0.6	43
86	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
87	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
88	Mesoporous iron-nitrogen co-doped carbon material as cathode catalyst for the anion exchange membrane fuel cell. <i>Journal of Power Sources Advances</i> , 2021, 8, 100052.	2.6	43
89	Increased power generation in supercapacitive microbial fuel cell stack using Fe N C cathode catalyst. <i>Journal of Power Sources</i> , 2019, 412, 416-424.	4.0	42
90	Palladium Supported on 3D Graphene as an Active Catalyst for Alcohols Electrooxidation. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1305-F1309.	1.3	41

#	ARTICLE	IF	CITATIONS
91	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
92	Microbial Desalination Cells with Efficient Platinum-Group-Metal-Free Cathode Catalysts. <i>ChemElectroChem</i> , 2017, 4, 3322-3330.	1.7	40
93	Electroreduction of oxygen over iron macrocyclic catalysts for DMFC applications. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1509-1516.	1.5	36
94	Study of the average charge states of ^{188}Pb and $^{252,254}\text{No}$ ions at the gas-filled separator TASCA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 689, 40-46.	0.7	35
95	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
96	Direct Methanol Anion Exchange Membrane Fuel Cell with a Non-Platinum Group Metal Cathode based on Iron-Aminoantipyrine Catalyst. <i>Electrochimica Acta</i> , 2015, 175, 202-208.	2.6	34
97	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
98	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
99	Effect of precursor nature on the performance of palladium-cobalt electrocatalysts for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 175-180.	4.0	32
100	Co-generation of hydrogen and power/current pulses from supercapacitive MFCs using novel HER iron-based catalysts. <i>Electrochimica Acta</i> , 2016, 220, 672-682.	2.6	31
101	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
102	Adsorption interaction of carrier-free thallium species with gold and quartz surfaces. <i>Radiochimica Acta</i> , 2013, 101, 421-426.	0.5	29
103	Non-PGM membrane electrode assemblies: Optimization for performance. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14676-14682.	3.8	29
104	Selective CO_2 electroreduction to C_2H_4 on porous Cu films synthesized by sacrificial support method. <i>Journal of CO2 Utilization</i> , 2017, 19, 137-145.	3.3	29
105	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
106	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
107	Synthesis, characterization and catalytic activity of RuFeSe/C as a cathode catalyst for low-temperature fuel cells. <i>Catalysis Communications</i> , 2009, 10, 1551-1554.	1.6	28
108	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

#	ARTICLE	IF	CITATIONS
109	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. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3375-3386.	2.5	28
110	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Anolyte. <i>Journal of the Electrochemical Society</i> , 2021, 168, 084512.	1.3	28
111	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
112	Adsorption interaction of astatine species with quartz and gold surfaces. <i>Radiochimica Acta</i> , 2011, 99, 593-600.	0.5	26
113	Bio-inspired design of electrocatalysts for oxalate oxidation: a combined experimental and computational study of Mn ^{II} /C catalysts. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13235-13244.	1.3	26
114	Highly durable direct hydrazine hydrate anion exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2018, 375, 291-299.	4.0	26
115	Design of PGM-free cathodic catalyst layers for advanced PEM fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121424.	10.8	26
116	Slot-die-coating operability windows for polymer electrolyte membrane fuel cell cathode catalyst layers. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 474-485.	5.0	25
117	Implementing PGM-free electrocatalysts in high-temperature polymer electrolyte membrane fuel cells. <i>Electrochemistry Communications</i> , 2018, 93, 91-94.	2.3	24
118	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
119	Enhancement of Electrocatalytic Oxidation of Glycerol by Plasmonics. <i>ChemElectroChem</i> , 2019, 6, 241-245.	1.7	23
120	Analysis of alkaline exchange membrane fuel cells performance at different operating conditions using DC and AC methods. <i>Journal of Power Sources</i> , 2018, 375, 185-190.	4.0	22
121	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
122	Application of X-ray photoelectron spectroscopy to studies of electrodes in fuel cells and electrolyzers. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 231, 127-139.	0.8	21
123	Design of Pd-Pb Catalysts for Glycerol and Ethylene Glycol Electrooxidation in Alkaline Medium. <i>Electrocatalysis</i> , 2018, 9, 480-485.	1.5	20
124	Characterizing Complex Gas-Solid Interfaces with in Situ Spectroscopy: Oxygen Adsorption Behavior on Fe ^{II} /C Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16529-16543.	1.5	20
125	Promotion of Ammonia Electrooxidation on Pt nanoparticles by Nickel Oxide Support. <i>Electrochimica Acta</i> , 2016, 222, 1455-1463.	2.6	19
126	Role of humidity in oxidation of ultrathin GaSe. <i>Materials Research Express</i> , 2019, 6, 085907.	0.8	19

#	ARTICLE	IF	CITATIONS
127	Electron and proton conductivity of Fe-N-C cathodes for PEM fuel cells: A model-based electrochemical impedance spectroscopy measurement. <i>Electrochemistry Communications</i> , 2020, 118, 106795.	2.3	19
128	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
129	Facile synthesis of high surface area molybdenum nitride and carbide. <i>Journal of Solid State Chemistry</i> , 2015, 228, 232-238.	1.4	18
130	Inhibition of Surface Chemical Moieties by Tris(hydroxymethyl)aminomethane: A Key to Understanding Oxygen Reduction on Iron-Nitrogen-Carbon Catalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 1942-1949.	2.5	18
131	Critical Review of Platinum Group Metal-Free Materials for Water Electrolysis: Transition from the Laboratory to the Market. <i>Johnson Matthey Technology Review</i> , 2021, 65, 207-226.	0.5	17
132	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
133	Palladium Nanoparticles Supported on Three-Dimensional Graphene Nanosheets: Superior Cathode Electrocatalysts. <i>ChemElectroChem</i> , 2016, 3, 1655-1666.	1.7	16
134	Gas chromatography of indium in macroscopic and carrier-free amounts using quartz and gold as stationary phases. <i>Radiochimica Acta</i> , 2011, 99, 95-101.	0.5	15
135	Application of the Discrete Wavelet Transform to SEM and AFM Micrographs for Quantitative Analysis of Complex Surfaces. <i>Langmuir</i> , 2015, 31, 4924-4933.	1.6	15
136	Influence of Supporting Electrolyte on Hydroxide Exchange Membrane Water Electrolysis Performance: Catholyte. <i>Journal of the Electrochemical Society</i> , 2022, 169, 024510.	1.3	15
137	Nano-fabrication and characterization of new conceptual platinum catalysts for low temperature fuel cells. <i>Electrochimica Acta</i> , 2006, 52, 1670-1675.	2.6	13
138	Ni _{5.73} InSe ₂ a Metal-Rich Selenide Based on the Cu ₃ Au-type 2D Heterometallic Framework: Synthesis, Structure, and Bonding. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 373-379.	1.0	13
139	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
140	New quasi-2D nickel-gallium mixed chalcogenides based on the Cu ₃ Au-type extended fragments. <i>Journal of Alloys and Compounds</i> , 2017, 696, 413-422.	2.8	13
141	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
142	Hybrid electrocatalysts for oxygen reduction reaction: Integrating enzymatic and non-platinum group metal catalysis. <i>Electrochimica Acta</i> , 2016, 190, 504-510.	2.6	12
143	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
144	Investigating the durability of a direct methanol fuel cell equipped with commercial Platinum Group Metal-free cathodic electro-catalysts. <i>Electrochimica Acta</i> , 2021, 394, 139108.	2.6	12

#	ARTICLE	IF	CITATIONS
145	Comparing Novel PGM-Free, Platinum, and Alloyed Platinum Catalysts for HT-PEMFCs. ECS Transactions, 2018, 86, 221-229.	0.3	11
146	Impedance Spectroscopy Characterization of PEM Fuel Cells with Fe-N-C-Based Cathodes. Journal of the Electrochemical Society, 2019, 166, F653-F660.	1.3	11
147	The Effect of Proton Conductivity of Fe-N-C-Based Cathode on PEM Fuel cell Performance. Journal of the Electrochemical Society, 2020, 167, 084501.	1.3	10
148	Ni(OH) ₂ -free NiCu as a hydrogen evolution and oxidation electrocatalyst. Electrochemistry Communications, 2021, 125, 106999.	2.3	9
149	Practical demonstration of applicability and efficiency of platinum group metal-free based catalysts in microbial fuel cells for wastewater treatment. Journal of Power Sources, 2021, 491, 229582.	4.0	9
150	Integration of Platinum Group Metal-Free Catalysts and Bilirubin Oxidase into a Hybrid Material for Oxygen Reduction: Interplay of Chemistry and Morphology. ChemSusChem, 2017, 10, 1534-1542.	3.6	8
151	New Opportunity for Carbon-Supported Ni-based Electrocatalysts: Gas-Phase CO ₂ Methanation. ChemCatChem, 2021, 13, 4770-4779.	1.8	7
152	Sensing nitrite by iron-nitrogen-carbon oxygen reduction electrocatalyst. Electrochimica Acta, 2022, 402, 139514.	2.6	7
153	High performance membrane-electrode assembly based on a surface-modified membrane. Journal of Power Sources, 2007, 167, 74-78.	4.0	6
154	The thermal release of scandium from titanium metal – a simple way to produce pure ⁴⁴ Sc for PET application. Radiochimica Acta, 2011, 99, 193-196.	0.5	5
155	Palladium Nanoparticles Supported on 3D-Graphene Nanosheets for Oxygen Reduction Reactions in Alkaline Media. ECS Transactions, 2016, 72, 39-47.	0.3	5
156	Novel Hybrid Catalyst for the Oxidation of Organic Acids: Pd Nanoparticles Supported on Mn-N-C-Graphene Nanosheets. ChemElectroChem, 2017, 4, 2336-2344.	1.7	5
157	Evaluation of Pt Alloys as Electrocatalysts for Oxalic Acid Oxidation: A Combined Experimental and Computational Study. Journal of the Electrochemical Society, 2016, 163, H787-H795.	1.3	4
158	Physicochemical Properties of ECS Supports and Pt/ECS Catalysts. ACS Applied Energy Materials, 2021, 4, 9111-9123.	2.5	4
159	Anodic materials for electrooxidation of alcohols in alkaline media. SPR Electrochemistry, 2017, , 61-101.	0.7	4
160	Novel preparation method of composite catalyst composed of Pt wires and particles for low-temperature fuel cell applications. Electrochimica Acta, 2010, 55, 737-742.	2.6	3
161	Synthesis, characterization, and photoluminescence of Er ₂ O ₃ -SO ₂ nanoparticles on reduced graphene oxide. Nanotechnology, 2017, 28, 195603.	1.3	3
162	Novel Fe-N-C Catalysts from Organic Precursors for Neutral Media and Microbial Fuel Cell Application. ECS Meeting Abstracts, 2016, , .	0.0	1

#	ARTICLE	IF	CITATIONS
163	Catalysts for Electrooxidation of Ethanol and Other Biofuels. ECS Meeting Abstracts, 2013, , .	0.0	0
164	Mechanistic Studies On Fe-PEI Derived Non-PGM Catalysts for Oxygen Reduction. ECS Meeting Abstracts, 2013, , .	0.0	0
165	Palladium Alloy Catalysts Synthesized By Sacrificial Support Method for the Electrooxidation of Ethylene Glycol in Alkaline Environment. ECS Meeting Abstracts, 2013, , .	0.0	0
166	Carbon and Composite Nanostructured Materials for Energy Applications. ECS Meeting Abstracts, 2013, , .	0.0	0