# Jiujun Zhang

## List of Publications by Citations



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| 250 papers | 36,488 citations | 74 h-index | 190 g-index |
| 259 ext. papers | 40,215 ext. citations | 11.1 avg, IF | 7.66 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 250 | A review of electrode materials for electrochemical supercapacitors. *Chemical Society Reviews*, **2012**, 41, 797-828 | 58.5 | 6816 |
| 249 | A review of electrolyte materials and compositions for electrochemical supercapacitors. *Chemical Society Reviews*, **2015**, 44, 7484-539 | 58.5 | 2002 |
| 248 | A review of catalysts for the electroreduction of carbon dioxide to produce low-carbon fuels. *Chemical Society Reviews*, **2014**, 43, 631-75 | 58.5 | 1890 |
| 247 | A review on non-precious metal electrocatalysts for PEM fuel cells. *Energy and Environmental Science*, **2011**, 4, 3167 | 35.4 | 1495 |
| 246 | A review of anode catalysis in the direct methanol fuel cell. *Journal of Power Sources*, **2006**, 155, 95-110 | 8.9 | 1492 |
| 245 | A review of PEM fuel cell durability: Degradation mechanisms and mitigation strategies. *Journal of Power Sources*, **2008**, 184, 104-119 | 8.9 | 1030 |
| 244 | A review of Fe-N/C and Co-N/C catalysts for the oxygen reduction reaction. *Electrochimica Acta*, **2008**, 53, 4937-4951 | 6.7 | 938 |
| 243 | Nanostructured Pt-alloy electrocatalysts for PEM fuel cell oxygen reduction reaction. *Chemical Society Reviews*, **2010**, 39, 2184-202 | 58.5 | 926 |
| 242 | A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. *Energy and Environmental Science*, **2014**, 7, 1564 | 35.4 | 860 |
| 241 | High temperature PEM fuel cells. *Journal of Power Sources*, **2006**, 160, 872-891 | 8.9 | 820 |
| 240 | A review of polymer electrolyte membranes for direct methanol fuel cells. *Journal of Power Sources* , **2007**, 169, 221-238 | 8.9 | 741 |
| 239 | A review of PEM hydrogen fuel cell contamination: Impacts, mechanisms, and mitigation. *Journal of Power Sources*, **2007**, 165, 739-756 | 8.9 | 728 |
| 238 | A review of water flooding issues in the proton exchange membrane fuel cell. *Journal of Power Sources*, **2008**, 178, 103-117 | 8.9 | 688 |
| 237 | Noncarbon support materials for polymer electrolyte membrane fuel cell electrocatalysts. *Chemical Reviews*, **2011**, 111, 7625-51 | 68.1 | 659 |
| 236 | The {001} facets-dependent high photoactivity of BiOCl nanosheets. *Chemical Communications*, **2011**, 47, 6951-3 | 5.8 | 530 |
| 235 | Alkaline polymer electrolyte membranes for fuel cell applications. *Chemical Society Reviews*, **2013**, 42, 5768-87 | 58.5 | 473 |
| 234 | Progress in preparation of non-noble electrocatalysts for PEM fuel cell reactions. *Journal of Power Sources*, **2006**, 156, 171-182 | 8.9 | 446 |

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| 233 | Nano-architecture and material designs for water splitting photoelectrodes. *Chemical Society Reviews*, **2012**, 41, 5654-71 | 58.5 | 429 |
| 232 | Nanocrystalline intermetallics on mesoporous carbon for direct formic acid fuel cell anodes. *Nature Chemistry*, **2010**, 2, 286-93 | 17.6 | 405 |
| 231 | Degradation of polymer electrolyte membranes. *International Journal of Hydrogen Energy*, **2006**, 31, 1838-1854 | 8.7 | 382 |
| 230 | A Review of Graphene-Based Nanostructural Materials for Both Catalyst Supports and Metal-Free Catalysts in PEM Fuel Cell Oxygen Reduction Reactions. *Advanced Energy Materials*, **2014**, 4, 1301523 | 21.8 | 365 |
| 229 | Progress in the synthesis of carbon nanotube- and nanofiber-supported Pt electrocatalysts for PEM fuel cell catalysis. *Journal of Applied Electrochemistry*, **2006**, 36, 507-522 | 2.6 | 355 |
| 228 | A review of heat-treatment effects on activity and stability of PEM fuel cell catalysts for oxygen reduction reaction. *Journal of Power Sources*, **2007**, 173, 891-908 | 8.9 | 350 |
| 227 | A review of cathode materials and structures for rechargeable lithium–air batteries. *Energy and Environmental Science*, **2015**, 8, 2144-2198 | 35.4 | 338 |
| 226 | A review of high temperature co-electrolysis of HO and CO to produce sustainable fuels using solid oxide electrolysis cells (SOECs): advanced materials and technology. *Chemical Society Reviews*, **2017**, 46, 1427-1463 | 58.5 | 332 |
| 225 | A review of AC impedance modeling and validation in SOFC diagnosis. *Electrochimica Acta*, **2007**, 52, 8144-8164 | 6.7 | 299 |
| 224 | Oxygen reduction reaction (ORR) catalyzed by carbon-supported cobalt polypyrrole (Co-PPy/C) electrocatalysts. *Electrochimica Acta*, **2009**, 54, 4704-4711 | 6.7 | 263 |
| 223 | Diagnostic tools in PEM fuel cell research: Part I Electrochemical techniques. *International Journal of Hydrogen Energy*, **2008**, 33, 1735-1746 | 6.7 | 229 |
| 222 | Challenges, mitigation strategies and perspectives in development of zinc-electrode materials and fabrication for rechargeable zinc–air batteries. *Energy and Environmental Science*, **2018**, 11, 3075-3095 | 35.4 | 212 |
| 221 | Atomically dispersed metal catalysts for the oxygen reduction reaction: synthesis, characterization, reaction mechanisms and electrochemical energy applications. *Energy and Environmental Science*, **2019**, 12, 2890-2923 | 35.4 | 208 |
| 220 | Polybenzimidazole-membrane-based PEM fuel cell in the temperature range of 120–200°C. *Journal of Power Sources*, **2007**, 172, 163-171 | 8.9 | 206 |
| 219 | Electrocatalytic Oxygen Reduction Reaction **2008**, 89-134 | | 188 |
| 218 | Development and Simulation of Sulfur-doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction. *Advanced Functional Materials*, **2014**, 24, 4325-4336 | 15.6 | 184 |
| 217 | Architecture for portable direct liquid fuel cells. *Journal of Power Sources*, **2006**, 154, 202-213 | 8.9 | 181 |
| 216 | The effect of heat treatment on nanoparticle size and ORR activity for carbon-supported Pd–Co alloy electrocatalysts. *Electrochimica Acta*, **2007**, 52, 3088-3094 | 6.7 | 169 |

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|---|---|---|---|
| 215 | Investigation and improvement on the storage property of LiNi0.8Co0.2O2 as a cathode material for lithium-ion batteries. *Journal of Power Sources*, **2006**, 162, 644-650 | 8.9 | 166 |
| 214 | PEM fuel cell open circuit voltage (OCV) in the temperature range of 23 °C to 120 °C. *Journal of Power Sources*, **2006**, 163, 532-537 | 8.9 | 166 |
| 213 | Effects of electrode layer composition/thickness and electrolyte concentration on both specific capacitance and energy density of supercapacitor. *Electrochimica Acta*, **2012**, 60, 428-436 | 6.7 | 146 |
| 212 | Energy related CO2 conversion and utilization: Advanced materials/nanomaterials, reaction mechanisms and technologies. *Nano Energy*, **2017**, 40, 512-539 | 17.1 | 143 |
| 211 | Facile Synthesis of CoPt Hollow Sphere Electrocatalyst. *Chemistry of Materials*, **2007**, 19, 1840-1844 | 9.6 | 138 |
| 210 | Electrocatalytic activity and stability of substituted iron phthalocyanines towards oxygen reduction evaluated at different temperatures. *Electrochimica Acta*, **2008**, 53, 6906-6919 | 6.7 | 137 |
| 209 | PEM fuel cell reaction kinetics in the temperature range of 23–120 °C. *Electrochimica Acta*, **2007**, 52, 2552-2561 | 6.7 | 136 |
| 208 | Density Functional Theory Study of Transitional Metal Macrocyclic Complexes' Dioxygen-Binding Abilities and Their Catalytic Activities toward Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2007**, 111, 7084-7090 | 3.8 | 133 |
| 207 | PEM fuel cell relative humidity (RH) and its effect on performance at high temperatures. *Electrochimica Acta*, **2008**, 53, 5315-5321 | 6.7 | 132 |
| 206 | Magneli phase Ti4O7 electrode for oxygen reduction reaction and its implication for zinc-air rechargeable batteries. *Electrochimica Acta*, **2010**, 55, 5891-5898 | 6.7 | 123 |
| 205 | Hydrogen crossover in high-temperature PEM fuel cells. *Journal of Power Sources*, **2007**, 167, 25-31 | 8.9 | 123 |
| 204 | Current status of ab initio quantum chemistry study for oxygen electroreduction on fuel cell catalysts. *Electrochimica Acta*, **2006**, 51, 1905-1916 | 6.7 | 122 |
| 203 | Engineered Graphene Materials: Synthesis and Applications for Polymer Electrolyte Membrane Fuel Cells. *Advanced Materials*, **2017**, 29, 1601741 | 24 | 118 |
| 202 | Novel carbon-supported Fe-N electrocatalysts synthesized through heat treatment of iron tripyridyl triazine complexes for the PEM fuel cell oxygen reduction reaction. *Electrochimica Acta*, **2008**, 53, 7703-7710 | 6.7 | 118 |
| 201 | AC impedance diagnosis of a 500W PEM fuel cell stack. *Journal of Power Sources*, **2006**, 161, 920-928 | 8.9 | 112 |
| 200 | High-surface-area CoTMPP/C synthesized by ultrasonic spray pyrolysis for PEM fuel cell electrocatalysts. *Electrochimica Acta*, **2007**, 52, 4532-4538 | 6.7 | 111 |
| 199 | Hybrid energy storage devices: Advanced electrode materials and matching principles. *Energy Storage Materials*, **2019**, 21, 22-40 | 19.4 | 105 |
| 198 | Recent Progresses in Oxygen Reduction Reaction Electrocatalysts for Electrochemical Energy Applications. *Electrochemical Energy Reviews*, **2019**, 2, 518-538 | 29.3 | 103 |

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| 197 | Monomeric and Polymeric Tetra-aminophthalocyanatocobalt(II) Modified Electrodes: Electrocatalytic Reduction of Oxygen. *Journal of Porphyrins and Phthalocyanines*, **1997**, 01, 3-16 | 1.8 | 101 |
| 196 | Titanium carbide and its core-shelled derivative TiC@TiO2 as catalyst supports for proton exchange membrane fuel cells. *Electrochimica Acta*, **2012**, 69, 397-405 | 6.7 | 100 |
| 195 | Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. *Journal of Power Sources*, **2018**, 402, 281-295 | 8.9 | 99 |
| 194 | PEM fuel cells operated at 0% relative humidity in the temperature range of 23–120°C. *Electrochimica Acta*, **2007**, 52, 5095-5101 | 6.7 | 96 |
| 193 | High temperature proton exchange membrane fuel cells: progress in advanced materials and key technologies. *Chemical Society Reviews*, **2021**, 50, 1138-1187 | 58.5 | 93 |
| 192 | Diagnostic tools in PEM fuel cell research: Part II: Physical/chemical methods. *International Journal of Hydrogen Energy*, **2008**, 33, 1747-1757 | 6.7 | 90 |
| 191 | PEM fuel cell electrocatalysts based on transition metal macrocyclic compounds. *Coordination Chemistry Reviews*, **2016**, 315, 153-177 | 23.2 | 87 |
| 190 | Nitrogen-doped graphene nanosheet-supported non-precious iron nitride nanoparticles as an efficient electrocatalyst for oxygen reduction. *RSC Advances*, **2011**, 1, 1349 | 3.7 | 86 |
| 189 | Reaction mechanism and kinetics of lithium ion battery cathode material LiNiO2 with CO2. *Journal of Power Sources*, **2007**, 173, 556-561 | 8.9 | 86 |
| 188 | Electrocatalytic reduction of O2 and H2O2 by adsorbed cobalt tetramethoxyphenyl porphyrin and its application for fuel cell cathodes. *Journal of Power Sources*, **2006**, 161, 743-752 | 8.9 | 85 |
| 187 | AC impedance diagnosis of a 500 W PEM fuel cell stack: Part II: Individual cell impedance. *Journal of Power Sources*, **2006**, 161, 929-937 | 8.9 | 84 |
| 186 | Carbon-Supported FeNx Catalysts Synthesized by Pyrolysis of the Fe(II)2,3,5,6-Tetra(2-pyridyl)pyrazine Complex: Structure, Electrochemical Properties, and Oxygen Reduction Reaction Activity. *Journal of Physical Chemistry C*, **2011**, 115, 12929-12940 | 3.8 | 82 |
| 185 | Effect of synthetic reducing agents on morphology and ORR activity of carbon-supported nano-PdCo alloy electrocatalysts. *Electrochimica Acta*, **2007**, 52, 7964-7971 | 6.7 | 82 |
| 184 | A review of electrochemical desulfurization technologies for fossil fuels. *Fuel Processing Technology* , **2012**, 98, 30-38 | 7.2 | 81 |
| 183 | Pt nanoparticles deposited on TiO2 based nanofibers: Electrochemical stability and oxygen reduction activity. *Journal of Power Sources*, **2010**, 195, 3105-3110 | 8.9 | 81 |
| 182 | Supported dual-atom catalysts: Preparation, characterization, and potential applications. *Chinese Journal of Catalysis*, **2020**, 41, 783-798 | 11.3 | 80 |
| 181 | Controllable hydrothermal synthesis of Cu-doped MnO2 films with different morphologies for energy storage and conversion using supercapacitors. *Applied Energy*, **2014**, 134, 439-445 | 10.7 | 80 |
| 180 | Progress in nanostructured (Fe or Co)/N/C non-noble metal electrocatalysts for fuel cell oxygen reduction reaction. *Electrochimica Acta*, **2018**, 262, 326-336 | 6.7 | 78 |

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| 179 | Ultrasonic spray pyrolyzed iron-polypyrrole mesoporous spheres for fuel celloxygen reduction electrocatalysts. *Journal of Materials Chemistry*, **2009**, 19, 468-470 | | 76 |
| 178 | Electrocatalytic activity of N,N?,N?,N?-tetramethyl-tetra-3,4-pyridoporphyrazinocobalt(II) adsorbed on a graphite electrode towards the oxidation of hydrazine and hydroxylamine. *Journal of Electroanalytical Chemistry*, **1996**, 406, 203-211 | 4.1 | 76 |
| 177 | Synthesis of carbon-supported binary FeCoN non-noble metal electrocatalysts for the oxygen reduction reaction. *Electrochimica Acta*, **2010**, 55, 7346-7353 | 6.7 | 75 |
| 176 | Highly active electrocatalysts for oxygen reduction from carbon-supported copper-phthalocyanine synthesized by high temperature treatment. *International Journal of Hydrogen Energy*, **2012**, 37, 14103-14113 | 6.7 | 73 |
| 175 | Ternary non-noble metal chalcogenide (WCoSe) as electrocatalyst for oxygen reduction reaction. *Electrochemistry Communications*, **2007**, 9, 1704-1708 | 5.1 | 73 |
| 174 | Electrocatalytic activity and durability of Pt/NbO2 and Pt/Ti4O7 nanofibers for PEM fuel cell oxygen reduction reaction. *Electrochimica Acta*, **2012**, 59, 538-547 | 6.7 | 72 |
| 173 | Mesoporous carbons supported non-noble metal FeN X electrocatalysts for PEM fuel cell oxygen reduction reaction. *Journal of Applied Electrochemistry*, **2013**, 43, 159-169 | 2.6 | 71 |
| 172 | Novel hierarchical SnO2 microsphere catalyst coated on gas diffusion electrode for enhancing energy efficiency of CO2 reduction to formate fuel. *Applied Energy*, **2016**, 175, 536-544 | 10.7 | 71 |
| 171 | IrxCo1 (x=0.3 1.0) alloy electrocatalysts, catalytic activities, and methanol tolerance in oxygen reduction reaction. *Journal of Power Sources*, **2007**, 170, 291-296 | 8.9 | 70 |
| 170 | Methanol-tolerant MoN electrocatalyst synthesized through heat treatment of molybdenum tetraphenylporphyrin for four-electron oxygen reduction reaction. *Journal of Power Sources*, **2008**, 177, 296-302 | 8.9 | 70 |
| 169 | Electrochemistry of the Cu(II) complex of 4,7-diphenyl-1,10-phenanthrolinedisulfonate adsorbed on graphite electrodes and its behavior as an electrocatalyst for the reduction of O2 and H2O2. *Journal of Electroanalytical Chemistry*, **1992**, 341, 323-341 | 4.1 | 70 |
| 168 | A review of core-shell nanostructured electrocatalysts for oxygen reduction reaction. *Energy Storage Materials*, **2018**, 12, 260-276 | 19.4 | 70 |
| 167 | Formation of Cu nanostructured electrode surfaces by an annealing electroreduction procedure to achieve high-efficiency CO2 electroreduction. *Electrochemistry Communications*, **2014**, 38, 8-11 | 5.1 | 69 |
| 166 | Non-noble FeNX electrocatalysts supported on the reduced graphene oxide for oxygen reduction reaction. *Carbon*, **2014**, 76, 386-400 | 10.4 | 69 |
| 165 | Temperature Dependent Performance and In Situ AC Impedance of High-Temperature PEM Fuel Cells Using the Nafion-112 Membrane. *Journal of the Electrochemical Society*, **2006**, 153, A2036 | 3.9 | 67 |
| 164 | Fe loading of a carbon-supported FeN electrocatalyst and its effect on the oxygen reduction reaction. *Electrochimica Acta*, **2009**, 54, 6631-6636 | 6.7 | 66 |
| 163 | Theoretical Study of Possible Active Site Structures in Cobalt- Polypyrrole Catalysts for Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2011**, 115, 16672-16680 | 3.8 | 65 |
| 162 | Liquid methanol concentration sensors for direct methanol fuel cells. *Journal of Power Sources*, **2006**, 159, 626-636 | 8.9 | 64 |

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| 161 | Heat-treated cobalt–tripyridyl triazine (Co–TPTZ) electrocatalysts for oxygen reduction reaction in acidic medium. *Electrochimica Acta*, **2010**, 55, 4403-4411 | 6.7 | 63 |
| 160 | A large-scale synthesis of heteroatom (N and S) co-doped hierarchically porous carbon (HPC) derived from polyquaternium for superior oxygen reduction reactivity. *Green Chemistry*, **2016**, 18, 2699-2709 | 10 | 61 |
| 159 | Charging and discharging electrochemical supercapacitors in the presence of both parallel leakage process and electrochemical decomposition of solvent. *Electrochimica Acta*, **2013**, 90, 542-549 | 6.7 | 61 |
| 158 | A novel methanol-tolerant Ir-Se chalcogenide electrocatalyst for oyxgen reduction. *Journal of Power Sources*, **2007**, 165, 108-113 | 8.9 | 61 |
| 157 | Facile synthesis of NiCo2O4 nanosphere-carbon nanotubes hybrid as an efficient bifunctional electrocatalyst for rechargeable Zn–air batteries. *International Journal of Hydrogen Energy*, **2016**, 41, 9211-9218 | 6.7 | 61 |
| 156 | Electrocatalytic Activities of La0.6Ca0.4CoO3 and La0.6Ca0.4CoO3-Carbon Composites Toward the Oxygen Reduction Reaction in Concentrated Alkaline Electrolytes. *Journal of the Electrochemical Society*, **2011**, 158, A597 | 3.9 | 60 |
| 155 | A review of radiation-grafted polymer electrolyte membranes for alkaline polymer electrolyte membrane fuel cells. *Journal of Power Sources*, **2015**, 293, 946-975 | 8.9 | 59 |
| 154 | Model for the contamination of fuel cell anode catalyst in the presence of fuel stream impurities. *Journal of Power Sources*, **2005**, 147, 58-71 | 8.9 | 59 |
| 153 | Novel Cobalt-Doped NiSe Chalcogenides (Co NiSe) as High Active and Stable Electrocatalysts for Hydrogen Evolution Reaction in Electrolysis Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 40491-40499 | 9.5 | 58 |
| 152 | Electrochemical reduction of oxygen and hydrogen peroxide catalyzed by a surface copper(II)–2,4,6-tris(2-piridil)-1,3,5-triazine complex adsorbed on a graphite electrode. *Journal of Power Sources*, **2005**, 142, 10-17 | 8.9 | 57 |
| 151 | Complexes of Cu(II) with electroactive chelating ligands adsorbed on graphite electrodes: Surface coordination chemistry and electrocatalysis. *Journal of Electroanalytical Chemistry*, **1993**, 348, 81-97 | 4.1 | 56 |
| 150 | Effects of transition metal precursors (Co, Fe, Cu, Mn, or Ni) on pyrolyzed carbon supported metal-aminopyrine electrocatalysts for oxygen reduction reaction. *RSC Advances*, **2015**, 5, 6195-6206 | 3.7 | 55 |
| 149 | Preparation of Nitrogen and Sulfur dual-doped Mesoporous Carbon for Supercapacitor Electrodes with Long Cycle Stability. *Electrochimica Acta*, **2015**, 177, 327-334 | 6.7 | 53 |
| 148 | Discrepancies in the Measurement of Ionic Conductivity of PEMs Using Two- and Four-Probe AC Impedance Spectroscopy. *Journal of the Electrochemical Society*, **2006**, 153, E173 | 3.9 | 53 |
| 147 | Rotating ring-disk electrode analysis of CO2 reduction electrocatalyzed by a cobalt tetramethylpyridoporphyrazine on the disk and detected as CO on a platinum ring. *Journal of Electroanalytical Chemistry*, **1996**, 403, 93-100 | 4.1 | 53 |
| 146 | Recent progress in the use of electrochemical impedance spectroscopy for the measurement, monitoring, diagnosis and optimization of proton exchange membrane fuel cell performance. *Journal of Power Sources*, **2020**, 468, 228361 | 8.9 | 52 |
| 145 | Rational Design and Synthesis of SnOx Electrocatalysts with Coralline Structure for Highly Improved Aqueous CO2 Reduction to Formate. *ChemElectroChem*, **2016**, 3, 1618-1628 | 4.3 | 52 |
| 144 | Durability of PEM fuel cell cathode in the presence of Fe3+ and Al3+. *Journal of Power Sources*, **2010**, 195, 8089-8093 | 8.9 | 51 |

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| 143 | Nanocrystalline tungsten carbide (WC) synthesis/characterization and its possible application as a PEM fuel cell catalyst support. *Electrochimica Acta*, **2012**, 61, 198-206 | 6.7 | 50 |
| 142 | Using pyridine as nitrogen-rich precursor to synthesize Co-N-S/C non-noble metal electrocatalysts for oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2012**, 125, 197-205 | 21.8 | 49 |
| 141 | FeNx/C electrocatalysts synthesized by pyrolysis of Fe(II)2,3,5,6-tetra(2-pyridyl)pyrazine complex for PEM fuel cell oxygen reduction reaction. *Electrochimica Acta*, **2011**, 56, 4744-4752 | 6.7 | 49 |
| 140 | Self-assembly formation of Bi-functional Co3O4/MnO2-CNTs hybrid catalysts for achieving both high energy/power density and cyclic ability of rechargeable zinc-air battery. *Scientific Reports*, **2016**, 6, 33590 | 4.9 | 46 |
| 139 | Synthesis and characterization of Nb-TiO2 mesoporous microsphere and nanofiber supported Pt catalysts for high temperature PEM fuel cells. *Electrochimica Acta*, **2012**, 77, 1-7 | 6.7 | 46 |
| 138 | Low Pt content PtRuIrSn quaternary catalysts for anodic methanol oxidation in DMFC. *Electrochemistry Communications*, **2007**, 9, 1788-1792 | 5.1 | 46 |
| 137 | Facile synthesis, spectroscopy and electrochemical activity of two substituted iron phthalocyanines as oxygen reduction catalysts in an acidic environment. *Electrochimica Acta*, **2009**, 54, 3098-3102 | 6.7 | 45 |
| 136 | Nickel-dimethylglyoxime complex modified graphite and carbon paste electrodes: preparation and catalytic activity towards methanol/ethanol oxidation. *Journal of Applied Electrochemistry*, **2009**, 39, 55-64 | 2.6 | 44 |
| 135 | Improved stability of mesoporous carbon fuel cell catalyst support through incorporation of TiO2. *Electrochimica Acta*, **2010**, 55, 8365-8370 | 6.7 | 44 |
| 134 | Electrocatalysts for the reduction of O2 and H2O2 based on complexes of Cu(II) with the strongly adsorbing 2,9-dimethyl-1,10-phenanthroline ligand. *Electrochimica Acta*, **1993**, 38, 2423-2429 | 6.7 | 44 |
| 133 | Tuning and understanding the supercapacitance of heteroatom-doped graphene. *Energy Storage Materials*, **2015**, 1, 103-111 | 19.4 | 41 |
| 132 | High activity PtRu/C catalysts synthesized by a modified impregnation method for methanol electro-oxidation. *Electrochimica Acta*, **2009**, 54, 7274-7279 | 6.7 | 41 |
| 131 | Design and testing of a passive planar three-cell DMFC. *Journal of Power Sources*, **2007**, 164, 287-292 | 8.9 | 41 |
| 130 | Ta and Nb co-doped TiO2 and its carbon-hybrid materials for supporting PtPd alloy electrocatalysts for PEM fuel cell oxygen reduction reaction. *Journal of Materials Chemistry A*, **2014**, 2, 12681-12685 | 13 | 40 |
| 129 | Nickel and cobalt oxide composite as a possible electrode material for electrochemical supercapacitors. *Journal of Power Sources*, **2012**, 217, 554-561 | 8.9 | 40 |
| 128 | Polymer electrolyte membrane fuel cell contamination: Testing and diagnosis of toluene-induced cathode degradation. *Journal of Power Sources*, **2008**, 185, 272-279 | 8.9 | 40 |
| 127 | Temperature and pH Dependence of Oxygen Reduction Catalyzed by Iron Fluoroporphyrin Adsorbed on a Graphite Electrode. *Journal of the Electrochemical Society*, **2005**, 152, A2421 | 3.9 | 40 |
| 126 | Experimental identification of the active sites in pyrolyzed carbon-supported cobaltpolypyrrole2-toluenesulfinic acid as electrocatalysts for oxygen reduction reaction. *Journal of Power Sources*, **2014**, 255, 76-84 | 8.9 | 39 |

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| 125 | Ti4O7 supported Ru@Pt core–shell catalyst for CO-tolerance in PEM fuel cell hydrogen oxidation reaction. *Applied Energy*, **2013**, 103, 507-513 | 10.7 | 39 |
| 124 | Energy storage through CO2 electroreduction: A brief review of advanced Sn-based electrocatalysts and electrodes. *Journal of CO2 Utilization*, **2018**, 27, 48-59 | 7.6 | 38 |
| 123 | A novel CO-tolerant PtRu core–shell structured electrocatalyst with Ru rich in core and Pt rich in shell for hydrogen oxidation reaction and its implication in proton exchange membrane fuel cell. *Journal of Power Sources*, **2011**, 196, 9117-9123 | 8.9 | 38 |
| 122 | Synthesis of novel mesoporous carbon spheres and their supported Fe-based electrocatalysts for PEM fuel cell oxygen reduction reaction. *Electrochimica Acta*, **2013**, 108, 480-485 | 6.7 | 37 |
| 121 | Synthesis of conductive rutile-phased Nb0.06Ti0.94O2 and its supported Pt electrocatalysts (Pt/Nb0.06Ti0.94O2) for the oxygen reduction reaction. *Dalton Transactions*, **2012**, 41, 1187-94 | 4.3 | 37 |
| 120 | Understanding the effects of backpressure on PEM fuel cell reactions and performance. *Journal of Electroanalytical Chemistry*, **2013**, 688, 130-136 | 4.1 | 36 |
| 119 | Implantation of Nafion® ionomer into polyvinyl alcohol/chitosan composites to form novel proton-conducting membranes for direct methanol fuel cells. *Journal of Power Sources*, **2009**, 194, 730-736 | 8.9 | 36 |
| 118 | Preparation and performance of nano silica/Nafion composite membrane for proton exchange membrane fuel cells. *Journal of Power Sources*, **2008**, 184, 99-103 | 8.9 | 36 |
| 117 | Simultaneous formation of nitrogen and sulfur-doped transition metal catalysts for oxygen reduction reaction through pyrolyzing carbon-supported copper phthalocyanine tetrasulfonic acid tetrasodium salt. *Journal of Power Sources*, **2014**, 266, 88-98 | 8.9 | 35 |
| 116 | Reversible one-electron electro-reduction of O2 to produce a stable superoxide catalyzed by adsorbed Co(II) hexadecafluoro-phthalocyanine in aqueous alkaline solution. *Journal of Electroanalytical Chemistry*, **2006**, 587, 293-298 | 4.1 | 35 |
| 115 | Coordination of Fe3+ by Alizarin complexone® adsorbed on graphite electrodes to produce electrocatalysts for the reduction of O2 and H2O2. *Journal of Electroanalytical Chemistry*, **1993**, 353, 265-280 | 4.1 | 35 |
| 114 | Template-free synthesis of three-dimensional nanoporous N-doped graphene for high performance fuel cell oxygen reduction reaction in alkaline media. *Applied Energy*, **2016**, 175, 405-413 | 10.7 | 34 |
| 113 | Kinetics of oxygen reduction reaction on three different Pt surfaces of Pt/C catalyst analyzed by rotating ring-disk electrode in acidic solution. *Journal of Power Sources*, **2014**, 255, 242-250 | 8.9 | 34 |
| 112 | Anion conducting poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) membranes with high durable alkaline stability for polymer electrolyte membrane fuel cells. *Journal of Power Sources*, **2013**, 237, 1-4 | 8.9 | 34 |
| 111 | Impedance Characteristics and Diagnoses of Automotive Lithium-Ion Batteries at 7.5% to 93.0% State of Charge. *Electrochimica Acta*, **2016**, 219, 751-765 | 6.7 | 33 |
| 110 | Carbon–Nb0.07Ti0.93O2 composite supported Pt–Pd electrocatalysts for PEM fuel cell oxygen reduction reaction. *Electrochimica Acta*, **2012**, 75, 220-228 | 6.7 | 32 |
| 109 | Transient Analysis of Hydrogen Sulfide Contamination on the Performance of a PEM Fuel Cell. *Journal of the Electrochemical Society*, **2007**, 154, B609 | 3.9 | 32 |
| 108 | High crystallinity binuclear iron phthalocyanine catalyst with enhanced performance for oxygen reduction reaction. *Journal of Power Sources*, **2013**, 231, 91-96 | 8.9 | 30 |

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| 107 | Advanced Noncarbon Materials as Catalyst Supports and Non-noble Electrocatalysts for Fuel Cells and Metal–Air Batteries. *Electrochemical Energy Reviews*, **2021**, 4, 336-381 | 29.3 | 30 |
| 106 | Effects of Hardware Design and Operation Conditions on PEM Fuel Cell Water Flooding. *International Journal of Green Energy*, **2010**, 7, 461-474 | 3 | 29 |
| 105 | Direct Methanol Fuel Cells: History, Status and Perspectives1-78 | | 28 |
| 104 | PEM fuel cell cathode contamination in the presence of cobalt ion (Co2+). *Electrochimica Acta*, **2010**, 55, 5823-5830 | 6.7 | 28 |
| 103 | Ionic liquids as electrolytes for non-aqueous solutions electrochemical supercapacitors in a temperature range of 20–80 °C. *Journal of Power Sources*, **2016**, 324, 615-624 | 8.9 | 26 |
| 102 | EIS-assisted performance analysis of non-noble metal electrocatalyst (Fe–N/C)-based PEM fuel cells in the temperature range of 23–80 °C. *Electrochimica Acta*, **2009**, 54, 1737-1743 | 6.7 | 26 |
| 101 | Optimizing catalyst loading in non-noble metal electrocatalyst layer to improve oxygen reduction reaction activity. *Electrochemistry Communications*, **2011**, 13, 447-449 | 5.1 | 26 |
| 100 | Novel approach to membraneless direct methanol fuel cells using advanced 3D anodes. *Electrochimica Acta*, **2008**, 53, 6890-6898 | 6.7 | 26 |
| 99 | Enhanced photoelectrochemical water-splitting performance with a hierarchical heterostructure: Co3O4 nanodots anchored TiO2@P-C3N4 core-shell nanorod arrays. *Chemical Engineering Journal*, **2021**, 404, 126458 | 14.7 | 26 |
| 98 | Recent advancements in the development of bifunctional electrocatalysts for oxygen electrodes in unitized regenerative fuel cells (URFCs). *Progress in Materials Science*, **2018**, 98, 108-167 | 42.2 | 26 |
| 97 | Application of a composite structure of carbon nanoparticles and Nb–TiO2 nanofibers as electrocatalyst support for PEM fuel cells. *Journal of Power Sources*, **2012**, 210, 15-20 | 8.9 | 25 |
| 96 | Carbon incorporated Fe–N/C electrocatalyst for oxygen reduction enhancement in direct methanol fuel cells: X-ray absorption approach to local structures. *Electrochimica Acta*, **2011**, 56, 8734-8738 | 6.7 | 25 |
| 95 | Hydroxyl anion conducting membranes poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) for alkaline fuel cell applications: Effect of molecular weight. *Electrochimica Acta*, **2013**, 111, 351-358 | 6.7 | 24 |
| 94 | Effect of template size on the synthesis of mesoporous carbon spheres and their supported Fe-based ORR electrocatalysts. *Electrochimica Acta*, **2013**, 108, 814-819 | 6.7 | 24 |
| 93 | Synthesis, characterization and evaluation of unsupported porous NiS2 sub-micrometer spheres as a potential hydrodesulfurization catalyst. *Applied Catalysis A: General*, **2013**, 450, 230-236 | 5.1 | 24 |
| 92 | Nickel, cobalt, and manganese oxide composite as an electrode material for electrochemical supercapacitors. *Ionics*, **2013**, 19, 689-695 | 2.7 | 23 |
| 91 | Nanomaterials-supported Pt catalysts for proton exchange membrane fuel cells. *Wiley Interdisciplinary Reviews: Energy and Environment*, **2013**, 2, 31-51 | 4.7 | 23 |
| 90 | Synthesis of Pd and Nb-doped TiO2 composite supports and their corresponding Pt–Pd alloy catalysts by a two-step procedure for the oxygen reduction reaction. *Journal of Power Sources*, **2013**, 221, 232-241 | 8.9 | 23 |

| | | | |
|---|---|---|---|
| 89 | Electronic Conductivity and Stability of Doped Titania (Ti1−xMXO2, M = Nb, Ru, and Ta): A Density Functional Theory-Based Comparison. *Journal of Physical Chemistry C*, **2010**, 114, 13162-13167 | 3.8 | 22 |
| 88 | PEM Fuel Cell Contamination: Effects of Operating Conditions on Toluene-Induced Cathode Degradation. *Journal of the Electrochemical Society*, **2009**, 156, B252 | 3.9 | 22 |
| 87 | Highly active Pt-on-Au catalysts for methanol oxidation in alkaline media involving a synergistic interaction between Pt and Au. *Electrochimica Acta*, **2014**, 123, 309-316 | 6.7 | 21 |
| 86 | Anodic stripping voltammetry coupled with design of experiments for simultaneous determination of Zn+2, Cu+2, Pb+2, and Cd+2 in gasoline. *Fuel*, **2012**, 91, 26-32 | 7.1 | 21 |
| 85 | Effect of Operating Backpressure on PEM Fuel Cell Performance. *ECS Transactions*, **2009**, 19, 65-76 | 1 | 21 |
| 84 | Multi-dimensional materials with layered structures for supercapacitors: Advanced synthesis, supercapacitor performance and functional mechanism. *Nano Energy*, **2020**, 78, 105193 | 17.1 | 21 |
| 83 | Research advances in biomass-derived nanostructured carbons and their composite materials for electrochemical energy technologies. *Progress in Materials Science*, **2021**, 118, 100770 | 42.2 | 21 |
| 82 | Nb-doped TiO2/carbon composite supports synthesized by ultrasonic spray pyrolysis for proton exchange membrane (PEM) fuel cell catalysts. *Journal of Power Sources*, **2012**, 220, 1-9 | 8.9 | 20 |
| 81 | Control of variable power conditions for a membraneless direct methanol fuel cell. *Journal of Power Sources*, **2009**, 194, 991-996 | 8.9 | 20 |
| 80 | Poisoning effect of SCN−, H2S and HCN on the reduction of O2 and H2O2 catalyzed by a 1:1 surface complex of Cu: 1,10-phenanthroline adsorbed on graphite electrodes, and its possible application in chemical analysis. *Journal of Electroanalytical Chemistry*, **1995**, 392, 43-53 | 4.1 | 20 |
| 79 | Imidazolium-Functionalized Anion Exchange Polymer Electrolytes with High Tensile Strength and Stability for Alkaline Membrane Fuel Cells. *Electrochimica Acta*, **2015**, 177, 201-208 | 6.7 | 19 |
| 78 | Improved ORR activity of non-noble metal electrocatalysts by increasing ligand and metal ratio in synthetic complex precursors. *Electrochimica Acta*, **2011**, 56, 5488-5492 | 6.7 | 19 |
| 77 | Arsenic determination in gasoline by hydride generation atomic absorption spectroscopy combined with a factorial experimental design approach. *Fuel*, **2006**, 85, 2155-2161 | 7.1 | 19 |
| 76 | Synthesis of a highly active carbon-supported Ir–Y/C catalyst for the hydrogen oxidation reaction in PEMFC. *Electrochimica Acta*, **2009**, 54, 5614-5620 | 6.7 | 18 |
| 75 | Single PEMFC Design and Validation for High-Temperature MEA Testing and Diagnosis up to 300°C. *Electrochemical and Solid-State Letters*, **2007**, 10, B142 | | 18 |
| 74 | A general model for air-side proton exchange membrane fuel cell contamination. *Journal of Power Sources*, **2009**, 186, 435-445 | 8.9 | 17 |
| 73 | Facile synthesis of silver@carbon nanocable-supported platinum nanoparticles as high-performing electrocatalysts for glycerol oxidation in direct glycerol fuel cells. *Green Chemistry*, **2016**, 18, 386-391 | 10 | 16 |
| 72 | Effects of synthesis condition on formation of desired crystal structures of doped-TiO2/carbon composite supports for ORR electrocatalysts. *Electrochimica Acta*, **2012**, 77, 225-231 | 6.7 | 16 |

| | | | |
|---|---|---|---|
| 71 | Novel nanowire-structured polypyrrole-cobalt composite as efficient catalyst for oxygen reduction reaction. *Scientific Reports*, **2016**, 6, 20005 | 4.9 | 15 |
| 70 | Multi-scale impedance model for supercapacitor porous electrodes: Theoretical prediction and experimental validation. *Journal of Power Sources*, **2018**, 400, 69-86 | 8.9 | 14 |
| 69 | Electrocatalytic activity and stability of carbon nanotubes-supported Pt-on-Au, Pd-on-Au, Pt-on-Pd-on-Au, Pt-on-Pd, and Pd-on-Pt catalysts for methanol oxidation reaction. *Electrochimica Acta*, **2014**, 148, 1-7 | 6.7 | 14 |
| 68 | Synthesis of hierarchical structured porous MoS2/SiO2 microspheres by ultrasonic spray pyrolysis. *Canadian Journal of Chemical Engineering*, **2012**, 90, 330-335 | 2.3 | 14 |
| 67 | Techniques for PEM Fuel Cell Testing and Diagnosis **2013**, 81-119 | | 14 |
| 66 | Novel Bi, BiSn, Bi2Sn, Bi3Sn, and Bi4Sn Catalysts for Efficient Electroreduction of CO2 to Formic Acid. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6806-6814 | 3.9 | 14 |
| 65 | A fast measurement of Warburg-like impedance spectra with Morlet wavelet transform for electrochemical energy devices. *Electrochimica Acta*, **2019**, 322, 134760 | 6.7 | 13 |
| 64 | Morphology-controlled construction of hierarchical hollow hybrid SnO2@TiO2 nanocapsules with outstanding lithium storage. *Scientific Reports*, **2015**, 5, 15252 | 4.9 | 13 |
| 63 | Accelerated Lifetime Testing for Proton Exchange Membrane Fuel Cells Using Extremely High Temperature and Unusually High Load. *Journal of Fuel Cell Science and Technology*, **2011**, 8, | | 13 |
| 62 | Electrochemical reduction of carbon dioxide (CO2): bismuth-based electrocatalysts. *Journal of Materials Chemistry A*, **2021**, 9, 13770-13803 | 13 | 13 |
| 61 | Electrocatalysts and Catalyst Layers for Oxygen Reduction Reaction **2014**, 67-132 | | 12 |
| 60 | Rotating Disk Electrode Method **2014**, 171-198 | | 12 |
| 59 | A novel single electrode supported direct methanol fuel cell. *Electrochemistry Communications*, **2009**, 11, 1530-1534 | 5.1 | 12 |
| 58 | Effect of Co2+ on oxygen reduction reaction catalyzed by Pt catalyst, and its implications for fuel cell contamination. *Electrochimica Acta*, **2010**, 55, 2622-2628 | 6.7 | 12 |
| 57 | Experimental and modeling study on charge storage/transfer mechanism of graphene-based supercapacitors. *Journal of Power Sources*, **2014**, 268, 604-609 | 8.9 | 11 |
| 56 | Electrochemical Oxygen Reduction Reaction **2014**, 133-170 | | 11 |
| 55 | Proton conductivity enhancement by nanostructural control of sulphonated poly (ether ether ketone) membranes. *International Journal of Hydrogen Energy*, **2010**, 35, 8337-8342 | 6.7 | 11 |
| 54 | High performing and cost-effective metal/metal oxide/metal alloy catalysts/electrodes for low temperature CO2 electroreduction. *Catalysis Today*, **2018**, 318, 15-22 | 5.3 | 10 |

| | | | |
|---|---|---|---|
| 53 | Platinum-based Alloy Catalysts for PEM Fuel Cells **2008**, 631-654 | | 10 |
| 52 | The Effects of Temperature on PEM Fuel Cell Kinetics and Performance **2013**, 121-141 | | 9 |
| 51 | Semiconductive properties and photoelectrochemistry of iron oxide electrodes. III. Photoresponses of sintered Zn-doped iron oxide electrode. *Electrochimica Acta*, **1991**, 36, 1585-1590 | 6.7 | 9 |
| 50 | A Novel Half-Cell Design and Fabrication for an In-Situ Evaluation of Pem Fuel Cell Electrocatalysts. *International Journal of Green Energy*, **2014**, 11, 1-11 | 3 | 8 |
| 49 | Peony pollen derived nitrogen-doped activated carbon for supercapacitor application. *Chinese Chemical Letters*, **2020**, 31, 1644-1647 | 8.1 | 8 |
| 48 | Metal chalcogenide-associated catalysts enabling CO2 electroreduction to produce low-carbon fuels for energy storage and emission reduction: catalyst structure, morphology, performance, and mechanism. *Journal of Materials Chemistry A*, **2021**, 9, 2526-2559 | 13 | 8 |
| 47 | N,N?-Bis(salicylidene)ethylenediamine as a nitrogen-rich precursor to synthesize electrocatalysts with high methanol-tolerance for polymer electrolyte membrane fuel cell oxygen reduction reaction. *Journal of Power Sources*, **2014**, 260, 349-356 | 8.9 | 7 |
| 46 | Polymer Electrolyte Membrane Fuel Cells **2012**, 601-670 | | 7 |
| 45 | High-temperature PEM Fuel Cell Catalysts and Catalyst Layers **2008**, 861-888 | | 7 |
| 44 | Reduced Graphene Oxide-Supported Nickel(II)-Bis(1,10-Phenanthroline) Complex as a Highly Active Electrocatalyst for Ethanol Oxidation Reaction. *Electrocatalysis*, **2019**, 10, 560-572 | 2.7 | 6 |
| 43 | Transition Metal Chalcogenides for Oxygen Reduction Electrocatalysts in PEM Fuel Cells **2014**, 157-182 | | 6 |
| 42 | Applications of RDE and RRDE Methods in Oxygen Reduction Reaction **2014**, 231-277 | | 6 |
| 41 | Formic Acid Tolerant Ir-Based Electrocatalysts for Oxygen Reduction Reaction. *International Journal of Green Energy*, **2011**, 8, 295-305 | 3 | 6 |
| 40 | Electrocatalytic H2 Oxidation Reaction **2008**, 135-164 | | 6 |
| 39 | Synergistic electrocatalysis of N,N?-bis(salicylidene)-ethylenediamine-cobalt(II) and conductive carbon black (BP) for high efficient CO2 electroreduction. *Journal of Solid State Electrochemistry*, **2015**, 19, 3355-3363 | 2.6 | 5 |
| 38 | Direct Methanol Fuel Cells **2012**, 701-727 | | 5 |
| 37 | Relative Humidity (RH) Effects on PEM Fuel Cells **2013**, 201-223 | | 5 |
| 36 | Novel electrochemical half-cell design and fabrication for performance analysis of metal-air battery air-cathodes. *International Journal of Green Energy*, **2019**, 16, 236-241 | 3 | 5 |

| | | | |
|---|---|---|---|
| 35 | Catalytic redox mediators for non-aqueous Li-O2 battery. *Energy Storage Materials*, **2021**, 43, 97-119 | 19.4 | 5 |
| 34 | Facile Synthesis of □MnO2 with a 3D Staghorn Coral-like Micro-Structure Assembled by Nano-Rods and Its Application in Electrochemical Supercapacitors. *Applied Sciences (Switzerland)*, **2017**, 7, 511 | 2.6 | 4 |
| 33 | PEM Fuel Cell Fundamentals **2013**, 1-42 | | 4 |
| 32 | Hydrogen Crossover **2013**, 171-185 | | 4 |
| 31 | Pressure Effects on PEM Fuel Cell Performance **2013**, 225-241 | | 4 |
| 30 | Non-noble Electrocatalysts for the PEM Fuel Cell Oxygen Reduction Reaction **2008**, 715-757 | | 4 |
| 29 | An overview of non-noble metal electrocatalysts and their associated air cathodes for Mg-air batteries. *Materials Reports Energy*, **2021**, 1, 100002 | | 4 |
| 28 | Stainless Steel Electrodes to Determine Biodiesel Content in Petroleum Diesel Fuel by Electrochemical Impedance Spectroscopy. *Electroanalysis*, **2017**, 29, 814-820 | 3 | 3 |
| 27 | Pyrolyzed Co-Nx/C Electrocatalysts Supported on Different Carbon Materials for Oxygen Reduction Reaction in Neutral Solution. *Journal of the Electrochemical Society*, **2020**, 167, 024509 | 3.9 | 3 |
| 26 | Catalyst Layer/MEA Performance Evaluation **2008**, 965-1002 | | 3 |
| 25 | Semiconductive properties and photoelectrochemistry of iron oxide electrodes□X. Photoresponses of sintered Zn-doped oxide electrode. *Electrochimica Acta*, **1992**, 37, 425-428 | 6.7 | 3 |
| 24 | A review of sodium chloride-based electrolytes and materials for electrochemical energy technology. *Journal of Materials Chemistry A*, **2022**, 10, 2637-2671 | 13 | 3 |
| 23 | Toward Excellence of Electrocatalyst Design by Emerging Descriptor-Oriented Machine Learning. *Advanced Functional Materials*,2110748 | 15.6 | 3 |
| 22 | Fundamentals of Electrochemical Supercapacitors. *Electrochemical Energy Storage and Conversion*, **2016**, 1-30 | | 3 |
| 21 | MOF-based electrocatalysts for high-efficiency CO2 conversion: structure, performance, and perspectives. *Journal of Materials Chemistry A*, | 13 | 3 |
| 20 | Recent research progress in PEM fuel cell electrocatalyst degradation and mitigation strategies. *EnergyChem*, **2021**, 3, 100061 | 36.9 | 3 |
| 19 | Insight into the origin of pseudo peaks decoded by the distribution of relaxation times/ differential capacity method for electrochemical impedance spectroscopy. *Journal of Electroanalytical Chemistry*, **2022**, 910, 116176 | 4.1 | 3 |
| 18 | Supercapacitors' Applications. *Electrochemical Energy Storage and Conversion*, **2015**, 479-492 | | 2 |

| | | | |
|---|---|---|---|
| 17 | High-Temperature PEM Fuel Cells **2013**, 243-282 | | 2 |
| 16 | Catalyst Contamination in PEM Fuel Cells **2008**, 331-354 | | 2 |
| 15 | Single-atom alloy with Pt-Co dual sites as an efficient electrocatalyst for oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2022**, 306, 121112 | 21.8 | 2 |
| 14 | Compatibility of Electrolytes with Inactive Components of Electrochemical Supercapacitors. *Electrochemical Energy Storage and Conversion*, **2016**, 255-274 | | 2 |
| 13 | Fundamentals of Electrochemical Pseudocapacitors **2017**, 99-134 | | 1 |
| 12 | Applications of Electrochemical Supercapacitors **2017**, 317-334 | | 1 |
| 11 | Electrochemical Half-Cells for Evaluating PEM Fuel Cell Catalysts and Catalyst Layers **2013**, 337-361 | | 1 |
| 10 | Fuel Cell Open Circuit Voltage **2013**, 187-200 | | 1 |
| 9 | Theoretical Study of Oxygen Reduction Reaction Catalysts: From Pt to Non-precious Metal Catalysts. *Lecture Notes in Energy*, **2013**, 339-373 | 0.4 | 1 |
| 8 | Methanol-Tolerant Cathode Catalysts for DMFC257-314 | | 1 |
| 7 | Carbon Nanotube-Supported Catalysts for the Direct Methanol Fuel Cell315-354 | | 1 |
| 6 | State-of-the-Art Electrocatalysts for Direct Methanol Fuel Cells197-226 | | 1 |
| 5 | High-efficient carbon dioxide-to-formic acid conversion on bimetallic PbIn alloy catalysts with tuned composition and morphology.. *Chemosphere*, **2022**, 293, 133595 | 8.4 | 1 |
| 4 | Nanoporous structured Sn-MWCNT/Cu electrodes fabricated by electrodeposition–chemical dezincification for catalytic CO2 reduction. *International Journal of Energy Research*, **2021**, 45, 6273-6284 | 4.5 | 1 |
| 3 | Combinatorial Methods for PEM Fuel Cell Electrocatalysts **2008**, 609-630 | | 0 |
| 2 | Components and Materials for Electrochemical Supercapacitors **2017**, 135-201 | | |
| 1 | Membrane/Ionomer Proton Conductivity Measurements **2013**, 143-170 | | |