# Hongmei Yu

List of Publications by Year
in descending order

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| 54 | 1,917 | 185998 | 253896 |
|---|---|---|---|
| papers | citations | 28 h-index | 43 g-index |

| 55 | 55 | 55 | 2439 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ti4O7 supported IrOx for anode reversal tolerance in proton exchange membrane fuel cell. Frontiers in Energy, 2022, 16, 852-861. | 1.2 | 5 |
| 2 | Boosting the oxygen evolution stability and activity of a heterogeneous IrRu bimetallic coating on a WO<sub>3</sub> nano-array electrode for PEM water electrolysis. Journal of Materials Chemistry A, 2022, 10, 11893-11903. | 5.2 | 16 |
| 3 | Self-Supporting NiFe Layered Double Hydroxide â€œNanoflowerâ€•Cluster Anode Electrode for an Efficient Alkaline Anion Exchange Membrane Water Electrolyzer. Energies, 2022, 15, 4645. | 1.6 | 6 |
| 4 | Altering membrane structure to enhance water permeability and performance of anion exchange membrane fuel cell. Science China Technological Sciences, 2021, 64, 414-422. | 2.0 | 1 |
| 5 | The threshold method in the analysis of catalyst layer porosity towards oxygen transport resistance in PEMFCs. Catalysis Science and Technology, 2021, 11, 6804-6810. | 2.1 | 1 |
| 6 | Low-Loading and Highly Stable Membrane Electrode Based on an Ir@WO<sub>x</sub>NR Ordered Array for PEM Water Electrolysis. ACS Applied Materials & Interfaces, 2021, 13, 15073-15082. | 4.0 | 53 |
| 7 | Experimental Study on Critical Membrane Water Content of Proton Exchange Membrane Fuel Cells for Cold Storage at â^'50 Â°C. Energies, 2021, 14, 4520. | 1.6 | 11 |
| 8 | Porous Pt-Ni Nanobelt Arrays with Superior Performance in H<sub>2</sub>/Air Atmosphere for Proton Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2021, 4, 10703-10712. | 2.5 | 6 |
| 9 | Influence of platinum dispersity on oxygen transport resistance and performance in PEMFC. Electrochimica Acta, 2020, 332, 135474. | 2.6 | 41 |
| 10 | Photo-driven growth of a monolayer of platinum spherical-nanocrowns uniformly coated on a membrane toward fuel cell applications. Journal of Materials Chemistry A, 2020, 8, 23284-23292. | 5.2 | 18 |
| 11 | The non-precious metal ORR catalysts for the anion exchange membrane fuel cells application: A numerical simulation and experimental study. International Journal of Hydrogen Energy, 2020, 45, 23353-23367. | 3.8 | 17 |
| 12 | Boosting cell performance with self-supported PtCu nanotube arrays serving as the cathode in a proton exchange membrane fuel cell. Sustainable Energy and Fuels, 2020, 4, 3640-3646. | 2.5 | 1 |
| 13 | High performance cross-linked anion exchange membrane based on aryl-ether free polymer backbones for anion exchange membrane fuel cell application. Sustainable Energy and Fuels, 2020, 4, 4057-4066. | 2.5 | 25 |
| 14 | Recent progresses in H2-PEMFC at DICP. Journal of Energy Chemistry, 2019, 36, 129-140. | 7.1 | 37 |
| 15 | Preparation and properties of amorphous TiO2 modified anion exchange membrane by impregnation-hydrolysis method. Reactive and Functional Polymers, 2019, 144, 104348. | 2.0 | 7 |
| 16 | An effective oxygen electrode based on Ir0.6Sn0.4O2 for PEM water electrolyzers. Journal of Energy Chemistry, 2019, 39, 23-28. | 7.1 | 28 |
| 17 | Uniform Pd<sub>0.33</sub>Ir<sub>0.67</sub> nanoparticles supported on nitrogen-doped carbon with remarkable activity toward the alkaline hydrogen oxidation reaction. Journal of Materials Chemistry A, 2019, 7, 3161-3169. | 5.2 | 50 |
| 18 | Facile preparation of porefilled membranes based on poly(ionic liquid) with quaternary ammonium and tertiary amine head groups for AEMFCs. Solid State Ionics, 2019, 338, 58-65. | 1.3 | 8 |

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|---|---|---|---|
| 19 | Enhanced water transport in AEMs based on poly(styreneâ€“ethyleneâ€“butyleneâ€“styrene) triblock copolymer for high fuel cell performance. Polymer Chemistry, 2019, 10, 1894-1903. | 1.9 | 52 |
| 20 | A novel IrNi@PdIr/C coreâ€“shell electrocatalyst with enhanced activity and durability for the hydrogen oxidation reaction in alkaline anion exchange membrane fuel cells. Nanoscale, 2018, 10, 4872-4881. | 2.8 | 40 |
| 21 | Construction of orderly hierarchical FeOOH/NiFe layered double hydroxides supported on cobaltous carbonate hydroxide nanowire arrays for a highly efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 3397-3401. | 5.2 | 67 |
| 22 | 3D Pd/Co coreâ€“shell nanoneedle arrays as a high-performance cathode catalyst layer for AAEMFCs. RSC Advances, 2018, 8, 12887-12893. | 1.7 | 0 |
| 23 | Nano-engineering of a 3D-ordered membrane electrode assembly with ultrathin Pt skin on open-walled PdCo nanotube arrays for fuel cells. Journal of Materials Chemistry A, 2018, 6, 6521-6533. | 5.2 | 56 |
| 24 | Ultrathin IrRu nanowire networks with high performance and durability for the hydrogen oxidation reaction in alkaline anion exchange membrane fuel cells. Journal of Materials Chemistry A, 2018, 6, 20374-20382. | 5.2 | 49 |
| 25 | Nanostructured ultrathin catalyst layer based on open-walled PtCo bimetallic nanotube arrays for proton exchange membrane fuel cells. Nano Energy, 2017, 34, 344-355. | 8.2 | 107 |
| 26 | Palladiumâ€“nickel catalysts based on ordered titanium dioxide nanorod arrays with high catalytic peformance for formic acid electro-oxidation. RSC Advances, 2017, 7, 11719-11723. | 1.7 | 17 |
| 27 | Highly stable nanostructured membrane electrode assembly based on Pt/Nb<sub>2</sub>O<sub>5</sub>nanobelts with reduced platinum loading for proton exchange membrane fuel cells. Nanoscale, 2017, 9, 6910-6919. | 2.8 | 16 |
| 28 | A novel cathode architecture using Cu nanoneedle arrays as the cathode support for AAEMFC application. Journal of Materials Chemistry A, 2017, 5, 14794-14800. | 5.2 | 5 |
| 29 | High performance anion exchange ionomer for anion exchange membrane fuel cells. RSC Advances, 2017, 7, 19153-19161. | 1.7 | 61 |
| 30 | Vertically Aligned FeOOH/NiFe Layered Double Hydroxides Electrode for Highly Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 464-471. | 4.0 | 174 |
| 31 | A novel Ir/CeO<sub>2</sub>â€“C nanoparticle electrocatalyst for the hydrogen oxidation reaction of alkaline anion exchange membrane fuel cells. RSC Advances, 2017, 7, 31574-31581. | 1.7 | 46 |
| 32 | Vertically Aligned Titanium Nitride Nanorod Arrays as Supports of Platinumâ€“Palladiumâ€“Cobalt Catalysts for Thinâ€Film Proton Exchange Membrane Fuel Cell Electrodes. ChemElectroChem, 2016, 3, 734-740. | 1.7 | 37 |
| 33 | Development of advanced catalytic layer based on vertically aligned conductive polymer arrays for thin-film fuel cell electrodes. Journal of Power Sources, 2016, 329, 347-354. | 4.0 | 28 |
| 34 | A PtPdCu thin-film catalyst based on titanium nitride nanorod arrays with high catalytic performance for methanol electro-oxidation. RSC Advances, 2016, 6, 82370-82375. | 1.7 | 15 |
| 35 | Nickel/cobalt oxide as a highly efficient OER electrocatalyst in an alkaline polymer electrolyte water electrolyzer. RSC Advances, 2016, 6, 90397-90400. | 1.7 | 26 |
| 36 | A Novel Cathode Architecture Using Ordered Pt Nanostructure Thin Film for AAEMFC Application. Electrochimica Acta, 2016, 220, 67-74. | 2.6 | 5 |

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|---|---|---|---|
| 37 | Behaviors of a proton exchange membrane electrolyzer under water starvation. RSC Advances, 2015, 5, 14506-14513. | 1.7 | 55 |
| 38 | Vertically aligned carbon-coated titanium dioxide nanorod arrays on carbon paper with low platinum for proton exchange membrane fuel cells. Journal of Power Sources, 2015, 276, 80-88. | 4.0 | 46 |
| 39 | Triblock polymer mediated synthesis of Irâ€“Sn oxide electrocatalysts for oxygen evolution reaction. Journal of Power Sources, 2014, 249, 175-184. | 4.0 | 34 |
| 40 | A novel ultra-thin catalyst layer based on wheat ear-like catalysts for polymer electrolyte membrane fuel cells. RSC Advances, 2014, 4, 58591-58595. | 1.7 | 9 |
| 41 | Effect of gas diffusion electrode parameters on anion exchange membrane fuel cell performance. Chinese Journal of Catalysis, 2014, 35, 1091-1097. | 6.9 | 22 |
| 42 | High durability and hydroxide ion conducting pore-filled anion exchange membranes for alkaline fuel cell applications. Journal of Power Sources, 2014, 269, 1-6. | 4.0 | 60 |
| 43 | Fine microstructure of high performance electrode in alkaline anion exchange membrane fuel cells. Journal of Power Sources, 2014, 267, 39-47. | 4.0 | 53 |
| 44 | Effect of water and annealing temperature of anodized TiO2 nanotubes on hydrogen production in photoelectrochemical cell. Electrochimica Acta, 2013, 107, 313-319. | 2.6 | 53 |
| 45 | Highly effective IrxSn1â^'xO2 electrocatalysts for oxygen evolution reaction in the solid polymer electrolyte water electrolyser. Physical Chemistry Chemical Physics, 2013, 15, 2858. | 1.3 | 73 |
| 46 | Supported Noble Metals on Hydrogenâ€Treated TiO<sub>2</sub> Nanotube Arrays as Highly Ordered Electrodes for Fuel Cells. ChemSusChem, 2013, 6, 659-666. | 3.6 | 94 |
| 47 | Highly stable ternary tinâ€“palladiumâ€“platinum catalysts supported on hydrogenated TiO2 nanotube arrays for fuel cells. Nanoscale, 2013, 5, 6834. | 2.8 | 45 |
| 48 | High-performance alkaline fuel cells using crosslinked composite anion exchange membrane. Journal of Power Sources, 2013, 221, 247-251. | 4.0 | 81 |
| 49 | Preparation of Pt catalysts decorated TiO2 nanotube arrays by redox replacement of Ni precursors for proton exchange membrane fuel cells. Electrochimica Acta, 2012, 80, 1-6. | 2.6 | 38 |
| 50 | Preparation and characterization of PTFE based composite anion exchange membranes for alkaline fuel cells. Journal of Membrane Science, 2012, 421-422, 311-317. | 4.1 | 37 |
| 51 | Sub-freezing endurance of PEM fuel cells with different catalyst-coated membranes. Journal of Applied Electrochemistry, 2009, 39, 609-615. | 1.5 | 8 |
| 52 | Transient behavior of water generation in a proton exchange membrane fuel cell. Journal of Power Sources, 2008, 177, 404-411. | 4.0 | 21 |
| 53 | Transient Behavior of a Proton Exchange Membrane Fuel Cell under Dry Operation. Journal of the Electrochemical Society, 2006, 153, A570. | 1.3 | 49 |
| 54 | Nanowheat-Like Î±-Fe2O3@Co-Based/Ti Foil Photoanode with Surface Defects for Enhanced Charge Carrier Separation and Photoelectrochemical Water Splitting. Energy & Fuels, 0, , . | 2.5 | 7 |