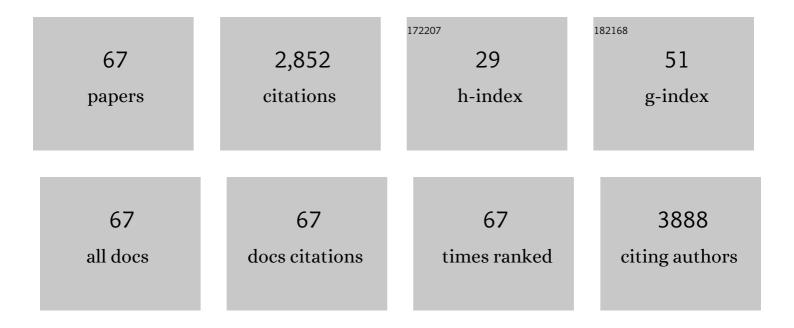
Jin Young Kim

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9490048/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Role of surface steps in activation of surface oxygen sites on Ir nanocrystals for oxygen evolution reaction in acidic media. Applied Catalysis B: Environmental, 2022, 302, 120834. | 10.8 | 29 |
| 2 | Mnâ€Dopant Differentiating the Ru and Ir Oxidation States in Catalytic Oxides Toward Durable Oxygen Evolution Reaction in Acidic Electrolyte. Small Methods, 2022, 6, e2101236. | 4.6 | 31 |
| 3 | Boosting antioxidation efficiency of nonstoichiometric CeOx nanoparticles via surface passivation toward robust polymer electrolyte membrane fuel cells. Chemical Engineering Journal, 2022, 432, 134419. | 6.6 | 10 |
| 4 | Modulating the Local Coordination Environment of Singleâ€Atom Catalysts for Enhanced Catalytic Performance in Hydrogen/Oxygen Evolution Reaction. Small, 2022, 18, e2105680. | 5.2 | 56 |
| 5 | Ce(III)â€Based Coordinationâ€Complexâ€Based Efficient Radical Scavenger for Exceptional Durability Enhancement of Polymer Application in Protonâ€Exchange Membrane Fuel Cells and Organic Photovoltaics. Advanced Energy and Sustainability Research, 2022, 3, . | 2.8 | 5 |
| 6 | Double Hypercrosslinked Porous Organic Polymer-Derived Electrocatalysts for a Water Splitting Device. ACS Applied Energy Materials, 2022, 5, 3269-3274. | 2.5 | 6 |
| 7 | Tailorâ€Made Charged Catecholâ€Based Polymeric Ligands to Build Robust Fuel Cells Containing Antioxidative Nanoparticles. Advanced Electronic Materials, 2022, 8, . | 2.6 | 6 |
| 8 | Structure-controlled graphene electrocatalysts for high-performance H ₂ O ₂ production. Energy and Environmental Science, 2022, 15, 2858-2866. | 15.6 | 52 |
| 9 | Antioxidant technology for durability enhancement in polymer electrolyte membranes for fuel cell applications. Materials Today, 2022, 58, 135-163. | 8.3 | 18 |
| 10 | Perpendicularly stacked array of PTFE nanofibers as a reinforcement for highly durable composite membrane in proton exchange membrane fuel cells. Nano Energy, 2022, 101, 107581. | 8.2 | 23 |
| 11 | Multimetallic nanostructures for electrocatalytic oxygen evolution reaction in acidic media. Materials Chemistry Frontiers, 2021, 5, 4445-4473. | 3.2 | 14 |
| 12 | Understanding synergistic metal–oxide interactions of <i>in situ</i> exsolved metal nanoparticles on a pyrochlore oxide support for enhanced water splitting. Energy and Environmental Science, 2021, 14, 3053-3063. | 15.6 | 39 |
| 13 | Multifunctional Nafion/CeO ₂ Dendritic Structures for Enhanced Durability and Performance of Polymer Electrolyte Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 806-815. | 4.0 | 51 |
| 14 | Interfacing RuO ₂ with Pt to induce efficient charge transfer from Pt to RuO ₂ for highly efficient and stable oxygen evolution in acidic media. Journal of Materials Chemistry A, 2021, 9, 14352-14362. | 5.2 | 25 |
| 15 | Hybrid layered double hydroxides as multifunctional nanomaterials for overall water splitting and supercapacitor applications. Journal of Materials Chemistry A, 2021, 9, 4528-4557. | 5.2 | 98 |
| 16 | Polystyrene-Based Hydroxide-Ion-Conducting Ionomer: Binder Characteristics and Performance in Anion-Exchange Membrane Fuel Cells. Polymers, 2021, 13, 690. | 2.0 | 14 |
| 17 | Amphiphilic Ti porous transport layer for highly effective PEM unitized regenerative fuel cells. Science Advances, 2021, 7, . | 4.7 | 16 |
| 18 | <scp>Ptâ€based</scp> Intermetallic Nanocatalysts for Promoting the Oxygen Reduction Reaction. Bulletin of the Korean Chemical Society, 2021, 42, 724-736. | 1.0 | 17 |

JIN YOUNG KIM

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Dopants in the Design of Noble Metal Nanoparticle Electrocatalysts and their Effect on Surface Energy and Coordination Chemistry at the Nanocrystal Surface. Advanced Energy Materials, 2021, 11, 2100265. | 10.2 | 25 |
| 20 | Structural Evolution of Atomically Dispersed Fe Species in Fe–N/C Catalysts Probed by X-ray Absorption and ⁵⁷ Fe MA¶ssbauer Spectroscopies. Journal of Physical Chemistry C, 2021, 125, 11928-11938. | 1.5 | 9 |
| 21 | Activity-stability benefits of Pt/C fuel cell electrocatalysts prepared via remote CeO2 interfacial doping. Journal of Power Sources, 2021, 496, 229798. | 4.0 | 30 |
| 22 | Hierarchically Assembled Cobalt Oxynitride Nanorods and N-Doped Carbon Nanofibers for Efficient Bifunctional Oxygen Electrocatalysis with Exceptional Regenerative Efficiency. ACS Nano, 2021, 15, 11218-11230. | 7.3 | 45 |
| 23 | Conformation-modulated three-dimensional electrocatalysts for high-performance fuel cell electrodes. Science Advances, 2021, 7, . | 4.7 | 27 |
| 24 | Single‣tep Fabrication of Polymeric Composite Membrane via Centrifugal Colloidal Casting for Fuel Cell Applications. Small Methods, 2021, 5, e2100285. | 4.6 | 6 |
| 25 | Facile oneâ€step synthesis of Ru doped NiCoP nanoparticles as highly efficient electrocatalysts for oxygen evolution reaction. Chemistry - an Asian Journal, 2021, 16, 3630-3635. | 1.7 | 5 |
| 26 | DFT-Machine Learning Approach for Accurate Prediction of p <i>K</i> _a . Journal of Physical Chemistry A, 2021, 125, 8712-8722. | 1.1 | 15 |
| 27 | Recent advances in non-precious group metal-based catalysts for water electrolysis and beyond. Journal of Materials Chemistry A, 2021, 10, 50-88. | 5.2 | 44 |
| 28 | Innovative cathode flow-field design for passive air-cooled polymer electrolyte membrane (PEM) fuel cell stacks. International Journal of Hydrogen Energy, 2020, 45, 11704-11713. | 3.8 | 72 |
| 29 | Cost-effective porous-organic-polymer-based electrolyte membranes with superprotonic conductivity and low activation energy. Journal of Materials Chemistry A, 2020, 8, 1147-1153. | 5.2 | 28 |
| 30 | Porous Strained Pt Nanostructured Thinâ€Film Electrocatalysts via Dealloying for PEM Fuel Cells. Advanced Materials Interfaces, 2020, 7, 1901326. | 1.9 | 19 |
| 31 | Highly Stable Ptâ€Based Ternary Systems for Oxygen Reduction Reaction in Acidic Electrolytes. Advanced Energy Materials, 2020, 10, 2002049. | 10.2 | 62 |
| 32 | Synergetic Structural Transformation of Pt Electrocatalyst into Advanced 3D Architectures for Hydrogen Fuel Cells. Advanced Materials, 2020, 32, e2002210. | 11.1 | 33 |
| 33 | Pt Dopant: Controlling the Ir Oxidation States toward Efficient and Durable Oxygen Evolution Reaction in Acidic Media. Advanced Functional Materials, 2020, 30, 2003935. | 7.8 | 50 |
| 34 | lrCo nanocacti on Co _x S _y nanocages as a highly efficient and robust electrocatalyst for the oxygen evolution reaction in acidic media. Nanoscale, 2020, 12, 17074-17082. | 2.8 | 11 |
| 35 | Dopant-Assisted Control of the Crystallite Domain Size in Hollow Ternary Iridium Alloy Octahedral Nanocages toward the Oxygen Evolution Reaction. Cell Reports Physical Science, 2020, 1, 100260. | 2.8 | 14 |
| 36 | CeO ₂ (111) Surface with Oxygen Vacancy for Radical Scavenging: A Density Functional Theory Approach. Journal of Physical Chemistry C, 2020, 124, 20950-20959. | 1.5 | 18 |

Jin Young Kim

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Thiometallate precursors for the synthesis of supported Pt and PtNi nanoparticle electrocatalysts: Size-focusing by S capping. Nanoscale, 2020, 12, 10498-10504. | 2.8 | 5 |
| 38 | Toward Efficient Electrocatalytic Oxygen Evolution: Emerging Opportunities with Metallic Pyrochlore Oxides for Electrocatalysts and Conductive Supports. ACS Central Science, 2020, 6, 880-891. | 5.3 | 71 |
| 39 | Effect of the fabrication condition of membrane electrode assemblies with carbon-supported ordered PtCo electrocatalyst on the durability of polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2020, 45, 32834-32843. | 3.8 | 2 |
| 40 | Effect of the Side-Chain Length in Perfluorinated Sulfonic and Phosphoric Acid-Based Membranes on Nanophase Segregation and Transport: A Molecular Dynamics Simulation Approach. Journal of Physical Chemistry B, 2020, 124, 1571-1580. | 1.2 | 18 |
| 41 | High-yield electrochemical hydrogen peroxide production from an enhanced two-electron oxygen reduction pathway by mesoporous nitrogen-doped carbon and manganese hybrid electrocatalysts. Nanoscale Horizons, 2020, 5, 832-838. | 4.1 | 40 |
| 42 | High purity hydrogen production via aqueous phase reforming of xylose over small Pt nanoparticles on a Î ³ -Al2O3 support. International Journal of Hydrogen Energy, 2020, 45, 13848-13861. | 3.8 | 15 |
| 43 | Hydrocarbon-based electrode ionomer for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2020, 45, 32856-32864. | 3.8 | 18 |
| 44 | Activity Origin and Multifunctionality of Pt-Based Intermetallic Nanostructures for Efficient Electrocatalysis. ACS Catalysis, 2019, 9, 11242-11254. | 5.5 | 96 |
| 45 | Post-assembly modification of polymeric composite membranes using spin drying for fuel cell applications. Journal of Materials Chemistry A, 2019, 7, 7380-7388. | 5.2 | 19 |
| 46 | Polyethylenimineâ€assisted Synthesis of Au Nanoparticles for Efficient Syngas Production. Electroanalysis, 2019, 31, 1401-1408. | 1.5 | 12 |
| 47 | Musselâ€Inspired Polydopamineâ€Treated Reinforced Composite Membranes with Selfâ€Supported CeO <i>_x</i> Radical Scavengers for Highly Stable PEM Fuel Cells. Advanced Functional Materials, 2019, 29, 1806929. | 7.8 | 66 |
| 48 | Morphology ontrolled Metal Sulfides and Phosphides for Electrochemical Water Splitting. Advanced Materials, 2019, 31, e1806682. | 11.1 | 500 |
| 49 | Alkaline anion exchange membrane water electrolysis: Effects of electrolyte feed method and electrode binder content. Journal of Power Sources, 2018, 382, 22-29. | 4.0 | 96 |
| 50 | Electrodeposited IrO2/Ti electrodes as durable and cost-effective anodes in high-temperature polymer-membrane-electrolyte water electrolyzers. Applied Catalysis B: Environmental, 2018, 226, 289-294. | 10.8 | 76 |
| 51 | Electrochemical impedance analysis with transmission line model for accelerated carbon corrosion in polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2018, 43, 15457-15465. | 3.8 | 23 |
| 52 | Polymeric graphitic carbon nitride nanosheet-coated amorphous carbon supports for enhanced fuel cell electrode performance and stability. Applied Catalysis B: Environmental, 2018, 237, 318-326. | 10.8 | 28 |
| 53 | Enhanced CO2 reduction activity of polyethylene glycol-modified Au nanoparticles prepared via liquid medium sputtering. Applied Catalysis B: Environmental, 2018, 237, 673-680. | 10.8 | 35 |
| 54 | Factors in electrode fabrication for performance enhancement of anion exchange membrane water electrolysis. Journal of Power Sources, 2017, 347, 283-290. | 4.0 | 54 |

JIN YOUNG KIM

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | PtFe nanoparticles supported on electroactive Au–PANI core@shell nanoparticles for high performance bifunctional electrocatalysis. Journal of Materials Chemistry A, 2017, 5, 13692-13699. | 5.2 | 29 |
| 56 | Effect of Catalyst Layer Ionomer Content on Performance of Intermediate Temperature Proton Exchange Membrane Fuel Cells (IT-PEMFCs) under Reduced Humidity Conditions. Electrochimica Acta, 2017, 224, 228-234. | 2.6 | 30 |
| 57 | Enhanced Stability and Electrochemical Performance of Carbonâ€Coated Ti ³⁺ Selfâ€Doped TiO ₂ â€Reduced Graphene Oxide Hollow Nanostructureâ€Supported Ptâ€Catalyzed Fuel Cell Electrodes. Advanced Materials Interfaces, 2017, 4, 1700564. | 1.9 | 15 |
| 58 | Hierarchical cobalt–nitride and –oxide co-doped porous carbon nanostructures for highly efficient and durable bifunctional oxygen reaction electrocatalysts. Nanoscale, 2017, 9, 15846-15855. | 2.8 | 29 |
| 59 | Transition metal alloying effect on the phosphoric acid adsorption strength of Pt nanoparticles: an experimental and density functional theory study. Scientific Reports, 2017, 7, 7186. | 1.6 | 17 |
| 60 | A conductive porous organic polymer with superprotonic conductivity of a Nafion-type electrolyte. Journal of Materials Chemistry A, 2017, 5, 17492-17498. | 5.2 | 35 |
| 61 | Investigation of electrolyte leaching in the performance degradation of phosphoric acid-doped polybenzimidazole membrane-based high temperature fuel cells. Journal of Power Sources, 2017, 363, 365-374. | 4.0 | 49 |
| 62 | Tailoring ruthenium exposure to enhance the performance of fcc platinum@ruthenium core–shell electrocatalysts in the oxygen evolution reaction. Physical Chemistry Chemical Physics, 2016, 18, 16169-16178. | 1.3 | 47 |
| 63 | Costâ€Effective, Highâ€Performance Porousâ€Organicâ€Polymer Conductors Functionalized with Sulfonic Acid Groups by Direct Postsynthetic Substitution. Angewandte Chemie - International Edition, 2016, 55, 16123-16126. | 7.2 | 72 |
| 64 | Development of porous Pt/IrO2/carbon paper electrocatalysts with enhanced mass transport as oxygen electrodes in unitized regenerative fuel cells. Electrochemistry Communications, 2016, 64, 14-17. | 2.3 | 34 |
| 65 | Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. Nature Communications, 2015, 6, 7772. | 5.8 | 68 |
| 66 | Highly efficient and durable TiN nanofiber electrocatalyst supports. Nanoscale, 2015, 7, 18429-18434. | 2.8 | 28 |
| 67 | Ni–NiO core–shell inverse opal electrodes for supercapacitors. Chemical Communications, 2011, 47, 5214. | 2.2 | 202 |