# Hidenori Kuroki

List of Publications by Year
in descending order



| 27 | 641 | 623188 14 | 610482 24 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 27 | 27 | 27 | 998 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pure Water Solid Alkaline Water Electrolyzer Using Fully Aromatic and High-Molecular-Weight Poly(fluorene-‹i›alt‹/i›-tetrafluorophenylene)-trimethyl Ammonium Anion Exchange Membranes and Ionomers. ACS Applied Energy Materials, 2021, 4, 1053-1058. | 2.5 | 45 |
| 2 | Connected iridium nanoparticle catalysts coated onto silica with high density for oxygen evolution in polymer electrolyte water electrolysis. Nanoscale Advances, 2020, 2, 171-175. | 2.2 | 22 |
| 3 | Carbon-Free Platinumâ€“Iron Nanonetworks with Chemically Ordered Structures as Durable Oxygen Reduction Electrocatalysts for Polymer Electrolyte Fuel Cells. ACS Applied Nano Materials, 2020, 3, 9912-9923. | 2.4 | 11 |
| 4 | Catalyst Slurry Preparation Using a Hydrodynamic Cavitation Dispersion Method for Polymer Electrolyte Fuel Cells. Industrial & Engineering Chemistry Research, 2019, 58, 19545-19550. | 1.8 | 19 |
| 5 | Autonomous Shrinking/Swelling Phenomenon Driven By Macromolecular Interchain Cross-Linking via Î²-Cyclodextrinâ€“Triazole Complexation. Macromolecules, 2019, 52, 8551-8562. | 2.2 | 4 |
| 6 | Highly stable membraneâ€“electrode assembly using ether-linkage-free spirobifluorene-based aromatic polyelectrolytes for direct formate solid alkaline fuel cells. Journal of Power Sources, 2019, 438, 226997. | 4.0 | 16 |
| 7 | Biofouling-Resistant Porous Membranes with a Precisely Adjustable Pore Diameter via 3D Polymer Grafting. ACS Applied Materials & Interfaces, 2019, 11, 18268-18275. | 4.0 | 5 |
| 8 | Necessity of Hydrogen Society Using Renewable Energies and Electrocatalyst Technologies for Fuel Cells. Journal of the Society of Powder Technology, Japan, 2019, 56, 100-108. | 0.0 | 0 |
| 9 | Evaluation of performance and durability of platinumâ€“ironâ€“copper with L10 ordered face-centered tetragonal structure as cathode catalysts in polymer electrolyte fuel cells. Journal of Applied Electrochemistry, 2018, 48, 773-782. | 1.5 | 13 |
| 10 | Refined Structural Analysis of Connected Platinumâ€“Iron Nanoparticle Catalysts with Enhanced Oxygen Reduction Activity. ACS Applied Energy Materials, 2018, 1, 324-330. | 2.5 | 15 |
| 11 | Carbon-Free Connected Ru, Ir Based Nanoparticle Catalysts for Polymer-Electrolyte Water Electrolysis. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 12 | Highly-Durable Membrane Electrode Assembly for Direct Formate Solid Alkaline Fuel Cells. ECS Meeting Abstracts, 2018, , . | 0.0 | 1 |
| 13 | Communicationâ€”Acid-Treated Nickel-Rich Platinumâ€“Nickel Alloys for Oxygen Reduction and Methanol Oxidation Reactions in Alkaline Media. Journal of the Electrochemical Society, 2017, 164, F858-F860. | 1.3 | 8 |
| 14 | AFM Study of Polymer Brush Grafted to Deformable Surfaces: Quantitative Properties of the Brush and Substrate Mechanics. Macromolecules, 2017, 50, 275-282. | 2.2 | 21 |
| 15 | Platinumâ€“Ironâ€“Nickel Trimetallic Catalyst with Superlattice Structure for Enhanced Oxygen Reduction Activity and Durability. Industrial & Engineering Chemistry Research, 2016, 55, 11458-11466. | 1.8 | 33 |
| 16 | Nanostructural Control and Performance Analysis of Carbon-Free Catalyst Layers Using Nanoparticle-Connected Hollow Capsules for PEFCs. Journal of the Electrochemical Society, 2016, 163, F927-F932. | 1.3 | 13 |
| 17 | Response Sensitivity of a Gating Membrane Related to Grafted Polymer Characteristics. Industrial & Engineering Chemistry Research, 2016, 55, 1575-1581. | 1.8 | 8 |
| 18 | Tunable Ultrathin Membranes with Nonvolatile Pore Shape Memory. ACS Applied Materials & Interfaces, 2015, 7, 10401-10406. | 4.0 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Connected nanoparticle catalysts possessing a porous, hollow capsule structure as carbon-free electrocatalysts for oxygen reduction in polymer electrolyte fuel cells. Energy and Environmental Science, 2015, 8, 3545-3549. | 15.6 | 67 |
| 20 | Stimuliâ€Responsive Materials with Selfâ€Healing Antifouling Surface via 3D Polymer Grafting. Advanced Functional Materials, 2013, 23, 4593-4600. | 7.8 | 96 |
| 21 | Conversion of a molecular signal into a visual color based on the permeation of nanoparticles through a biomolecule-recognition gating membrane. Analytical Methods, 2012, 4, 2635. | 1.3 | 7 |
| 22 | Responsive Surfaces for Life Science Applications. Annual Review of Materials Research, 2012, 42, 343-372. | 4.3 | 51 |
| 23 | Development of Gating-Membrane Based Biosensor using Systematic Material Design. Membrane, 2012, 37, 288-296. | 0.0 | 0 |
| 24 | Biomolecule-Recognition Gating Membrane Using Biomolecular Cross-Linking and Polymer Phase Transition. Analytical Chemistry, 2011, 83, 9226-9229. | 3.2 | 25 |
| 25 | Isolation and analysis of a grafted polymer onto a straight cylindrical pore in a thermal-responsive gating membrane and elucidation of its permeation behavior. Journal of Membrane Science, 2010, 352, 22-31. | 4.1 | 40 |
| 26 | Nanoscale Morphological Control of Anode Electrodes by Grafting of Methylsulfonic Acid Groups onto Platinumâ€“Ruthenium-Supported Carbon Blacks. Journal of the Electrochemical Society, 2006, 153, A1417. | 1.3 | 15 |
| 27 | DMFC performances using a pore-filling polymer electrolyte membrane for portable usages. Electrochemistry Communications, 2005, 7, 730-734. | 2.3 | 89 |