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	Stimuliâ€Responsive Materials with Selfâ€Healing Antifouling Surface via 3D Polymer Grafting. Advanced Functional Materials, 2013, 23, 4593-4600.	7.8	96
2	DMFC performances using a pore-filling polymer electrolyte membrane for portable usages. Electrochemistry Communications, 2005, 7, 730-734.	2.3	89
3	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
4	Responsive Surfaces for Life Science Applications. Annual Review of Materials Research, 2012, 42, 343-372.	4.3	51
5	Pure Water Solid Alkaline Water Electrolyzer Using Fully Aromatic and High-Molecular-Weight Poly(fluorene-alt-tetrafluorophenylene)-trimethyl Ammonium Anion Exchange Membranes and Ionomers. ACS Applied Energy Materials, 2021, 4, 1053-1058.	2.5	45
6	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
7	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
8	Biomolecule-Recognition Gating Membrane Using Biomolecular Cross-Linking and Polymer Phase Transition. Analytical Chemistry, 2011, 83, 9226-9229.	3.2	25
9	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
10	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
11	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
12	Tunable Ultrathin Membranes with Nonvolatile Pore Shape Memory. ACS Applied Materials & Interfaces, 2015, 7, 10401-10406.	4.0	17
13	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
14	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
15	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
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	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
18	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

#	Article	IF	Citations
19	Response Sensitivity of a Gating Membrane Related to Grafted Polymer Characteristics. Industrial & Engineering Chemistry Research, 2016, 55, 1575-1581.	1.8	8
20	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
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	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
23	Autonomous Shrinking/Swelling Phenomenon Driven By Macromolecular Interchain Cross-Linking via Î²-Cyclodextrinâ€"Triazole Complexation. Macromolecules, 2019, 52, 8551-8562.	2.2	4
24	Highly-Durable Membrane Electrode Assembly for Direct Formate Solid Alkaline Fuel Cells. ECS Meeting Abstracts, 2018, , .	0.0	1
25	Development of Gating-Membrane Based Biosensor using Systematic Material Design. Membrane, 2012, 37, 288-296.	0.0	0
26	Carbon-Free Connected Ru, Ir Based Nanoparticle Catalysts for Polymer-Electrolyte Water Electrolysis. ECS Meeting Abstracts, 2018, , .	0.0	0
27	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