

Kensaku Nagasawa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Novel Evaluation Method of Powder Electrocatalyst for Gas Evolution Reaction. <i>Electrochemistry</i> , 2022, 90, 017012-017012.	1.4	2
2	Improvement of Time-zero Analysis Method in Activity Evaluation of Powder Electrocatalyst for Gas Evolution Reaction. <i>Electrochemistry</i> , 2022, 90, 047004-047004.	1.4	1
3	Existence of Dissolved Oxygen near Anode Catalyst in Proton Exchange Membrane Water Electrolyzers. <i>Journal of the Electrochemical Society</i> , 2022, 169, 044515.	2.9	10
4	Effects of operation and shutdown parameters and electrode materials on the reverse current phenomenon in alkaline water analyzers. <i>Journal of Power Sources</i> , 2022, 535, 231454.	7.8	20
5	Mechanistic Insights into the Electrocatalytic Hydrogenation of Alkynes on Pt/Pd Electrocatalysts in a Proton-Exchange Membrane Reactor. <i>ACS Catalysis</i> , 2022, 12, 5430-5440.	11.2	22
6	Development of highly alkaline stable anion conductive polymers with fluorene backbone for water electrolysis. <i>Polymers for Advanced Technologies</i> , 2022, 33, 2863-2871.	3.2	2
7	Corrosion-resistant non-noble metal electrodes for PEM-type water electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 38603-38611.	7.1	17
8	Design and characterization of compact proton exchange membrane water electrolyzer for component evaluation test. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36619-36628.	7.1	22
9	Current Measurement and Electrochemical Characterization of Gas Evolution Reactions on a Rotating Ring-Disk Electrode. <i>Electrocatalysis</i> , 2020, 11, 301-308.	3.0	2
10	Highly Selective and Efficient Electrocatalytic Semihydrogenation of Diphenylacetylene in a PEM Reactor with Pt/Pd Alloy Cathode Catalysts. <i>Journal of the Electrochemical Society</i> , 2020, 167, 155506.	2.9	17
11	Toluene permeation through solid polymer electrolyte during toluene direct electro-hydrogenation for energy carrier synthesis. <i>Journal of Power Sources</i> , 2019, 439, 227070.	7.8	7
12	Kinetics of Toluene Electrohydrogenation on Pt/C Catalyst. <i>Electrocatalysis</i> , 2019, 10, 184-194.	3.0	7
13	Operando Time-Resolved X-ray Absorption Fine Structure Study for Pt Oxidation Kinetics on Pt ₃ Co/C and Pt ₃ Co/C Cathode Catalysts by Polymer Electrolyte Fuel Cell Voltage Operation Synchronized with Rapid O ₂ Exposure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14511-14517.	3.1	22
14	Electrocatalytic Hydrogenation of Toluene Using a Proton Exchange Membrane Reactor: Influence of Catalyst Materials on Product Selectivity. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 897-899.	3.2	14
15	Rate-Determining Factor of the Performance for Toluene Electrohydrogenation Electrolyzer. <i>Electrocatalysis</i> , 2017, 8, 164-169.	3.0	17
16	The effect of flow-field structure in toluene hydrogenation electrolyzer for energy carrier synthesis system. <i>Electrochimica Acta</i> , 2017, 246, 459-465.	5.2	23
17	Electrocatalytic Hydrogenation of <i>o</i> -Xylene in a PEM Reactor as a Study of a Model Reaction for Hydrogen Storage. <i>Chemistry Letters</i> , 2016, 45, 1437-1439.	1.3	13
18	Kinetics and Mechanism of Redox Processes of Pt/C and Pt ₃ Co/C Cathode Electrocatalysts in a Polymer Electrolyte Fuel Cell during an Accelerated Durability Test. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19642-19651.	3.1	29

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19	Spatially Non-Uniform Degradation of Pt/C Cathode Catalysts in Polymer Electrolyte Fuel Cells Imaged by Combination of Nano XAFS and STEM-EDS Techniques. Topics in Catalysis, 2016, 59, 1722-1731.	2.8	9
20	Electrocatalytic Hydrogenation of Toluene Using a Proton Exchange Membrane Reactor. Bulletin of the Chemical Society of Japan, 2016, 89, 1178-1183.	3.2	44
21	OER Activity of Ir-Ta-Zr Composite Anode as a Counter Electrode for Electrohydrogenation of Toluene. Electrocatalysis, 2016, 7, 441-444.	3.0	13
22	Membrane Electrolysis of Toluene Hydrogenation with Water Decomposition for Energy Carrier Synthesis. Electrocatalysis, 2016, 7, 127-131.	3.0	46
23	Structural and Electronic Transformations of Pt/C, Pd@Pt(1 ML)/C and Pd@Pt(2 ML)/C Cathode Catalysts in Polymer Electrolyte Fuel Cells during Potential-step Operating Processes Characterized by In-situ Time-resolved XAFS. Surface Science, 2016, 648, 100-113.	1.9	21
24	In-situ Techniques to Study the Effects of Anode or Cathode Gas Exchange Cycles on the Deterioration of Pt/C Cathode Catalysts in PEFCs. ChemElectroChem, 2015, 2, 1595-1606.	3.4	13
25	Same-View Nano-XAFS/STEM-EDS Imagings of Pt Chemical Species in Pt/C Cathode Catalyst Layers of a Polymer Electrolyte Fuel Cell. Journal of Physical Chemistry Letters, 2015, 6, 2121-2126.	4.6	33
26	Surface-Regulated Nano-SnO ₂ /Pt ₃ Co/C Cathode Catalysts for Polymer Electrolyte Fuel Cells Fabricated by a Selective Electrochemical Sn Deposition Method. Journal of the American Chemical Society, 2015, 137, 12856-12864.	13.7	55
27	Mapping Platinum Species in Polymer Electrolyte Fuel Cells by Spatially Resolved XAFS Techniques. Angewandte Chemie - International Edition, 2014, 53, 14110-14114.	13.8	41
28	Performance and durability of Pt/C cathode catalysts with different kinds of carbons for polymer electrolyte fuel cells characterized by electrochemical and in situ XAFS techniques. Physical Chemistry Chemical Physics, 2014, 16, 10075.	2.8	49
29	In Situ Time-Resolved XAFS of Transitional States of Pt/C Cathode Electrocatalyst in an MEA During PEFC Loading with Transient Voltages. Topics in Catalysis, 2014, 57, 903-910.	2.8	17
30	Fabrication of PtCu and PtNiCu multi-nanorods with enhanced catalytic oxygen reduction activities. Journal of Power Sources, 2014, 253, 1-8.	7.8	51
31	Rate Enhancements in Structural Transformations of Pt-Co and Pt-Ni Bimetallic Cathode Catalysts in Polymer Electrolyte Fuel Cells Studied by in Situ Time-Resolved X-ray Absorption Fine Structure. Journal of Physical Chemistry C, 2014, 118, 15874-15883.	3.1	58
32	Dependences of the Oxygen Reduction Reaction Activity of Pd-Co/C and Pd-Ni/C Alloy Electrocatalysts on the Nanoparticle Size and Lattice Constant. Topics in Catalysis, 2014, 57, 595-606.	2.8	18
33	Structural kinetics of a Pt/C cathode catalyst with practical catalyst loading in an MEA for PEFC operating conditions studied by in situ time-resolved XAFS. Physical Chemistry Chemical Physics, 2013, 15, 18827.	2.8	41
34	Performance and characterization of a Pt-Sn(oxidized)/C cathode catalyst with a SnO ₂ -decorated Pt ₃ Sn nanostructure for oxygen reduction reaction in a polymer electrolyte fuel cell. Physical Chemistry Chemical Physics, 2013, 15, 17208.	2.8	33
35	Enhanced Oxygen Reduction Reaction Activity and Characterization of Pt-Pd/C Bimetallic Fuel Cell Catalysts with Pt-Enriched Surfaces in Acid Media. Journal of Physical Chemistry C, 2012, 116, 23453-23464.	3.1	82
36	Optimisation of the Solid Oxide Fuel Cell (SOFC) cathode material Ca ₃ Co ₄ O ₉ . Journal of Power Sources, 2011, 196, 7328-7332.	7.8	33

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37	The Electrochemical and Thermal Performances of $\text{Ca}_3\text{Co}_4\text{O}_9$ as a Cathode Material for IT-SOFCs. ECS Transactions, 2009, 25, 2625-2630.	0.5	4