

Kensaku Nagasawa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhanced Oxygen Reduction Reaction Activity and Characterization of Pt@Pd/C Bimetallic Fuel Cell Catalysts with Pt-Enriched Surfaces in Acid Media. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23453-23464.	3.1	82
2	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. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15874-15883.	3.1	58
3	Surface-Regulated Nano-SnO ₂ /Pt ₃ Co/C Cathode Catalysts for Polymer Electrolyte Fuel Cells Fabricated by a Selective Electrochemical Sn Deposition Method. <i>Journal of the American Chemical Society</i> , 2015, 137, 12856-12864.	13.7	55
4	Fabrication of PtCu and PtNiCu multi-nanorods with enhanced catalytic oxygen reduction activities. <i>Journal of Power Sources</i> , 2014, 253, 1-8.	7.8	51
5	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. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10075.	2.8	49
6	Membrane Electrolysis of Toluene Hydrogenation with Water Decomposition for Energy Carrier Synthesis. <i>Electrocatalysis</i> , 2016, 7, 127-131.	3.0	46
7	Electrocatalytic Hydrogenation of Toluene Using a Proton Exchange Membrane Reactor. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 1178-1183.	3.2	44
8	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. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18827.	2.8	41
9	Mapping Platinum Species in Polymer Electrolyte Fuel Cells by Spatially Resolved XAFS Techniques. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14110-14114.	13.8	41
10	Optimisation of the Solid Oxide Fuel Cell (SOFC) cathode material Ca ₃ Co ₄ O ₉ . <i>Journal of Power Sources</i> , 2011, 196, 7328-7332.	7.8	33
11	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. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17208.	2.8	33
12	Same-View Nano-XAFS/STEM-EDS Imagings of Pt Chemical Species in Pt/C Cathode Catalyst Layers of a Polymer Electrolyte Fuel Cell. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2121-2126.	4.6	33
13	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
14	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
15	Operando Time-Resolved X-ray Absorption Fine Structure Study for Pt Oxidation Kinetics on Pt/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
16	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
17	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
18	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. <i>Surface Science</i> , 2016, 648, 100-113.	1.9	21

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19	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
20	Dependences of the Oxygen Reduction Reaction Activity of Pd-Co/C and Pd-Ni/C Alloy Electrocatalysts on the Nanoparticle Size and Lattice Constant. <i>Topics in Catalysis</i> , 2014, 57, 595-606.	2.8	18
21	In Situ Time-Resolved XAFS of Transitional States of Pt/C Cathode Electrocatalyst in an MEA During PEFC Loading with Transient Voltages. <i>Topics in Catalysis</i> , 2014, 57, 903-910.	2.8	17
22	Rate-Determining Factor of the Performance for Toluene Electrohydrogenation Electrolyzer. <i>Electrocatalysis</i> , 2017, 8, 164-169.	3.0	17
23	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
24	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
25	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
26	In-Situ Techniques to Study the Effects of Anode or Cathode Gas Exchange Cycles on the Deterioration of Pt/C Cathode Catalysts in PEFCs. <i>ChemElectroChem</i> , 2015, 2, 1595-1606.	3.4	13
27	Electrocatalytic Hydrogenation of <i>p</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
28	OER Activity of Ir-Ta-Zr Composite Anode as a Counter Electrode for Electrohydrogenation of Toluene. <i>Electrocatalysis</i> , 2016, 7, 441-444.	3.0	13
29	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
30	Spatially Non-Uniform Degradation of Pt/C Cathode Catalysts in Polymer Electrolyte Fuel Cells Imaged by Combination of Nano XAFS and STEM-EDS Techniques. <i>Topics in Catalysis</i> , 2016, 59, 1722-1731.	2.8	9
31	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
32	Kinetics of Toluene Electrohydrogenation on Pt/C Catalyst. <i>Electrocatalysis</i> , 2019, 10, 184-194.	3.0	7
33	The Electrochemical and Thermal Performances of Ca ₃ Co ₄ O ₉ - δ as a Cathode Material for IT-SOFCs. <i>ECS Transactions</i> , 2009, 25, 2625-2630.	0.5	4
34	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
35	A Novel Evaluation Method of Powder Electrocatalyst for Gas Evolution Reaction. <i>Electrochemistry</i> , 2022, 90, 017012-017012.	1.4	2
36	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

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37	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