

Hiroshi Ito

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6284718/publications.pdf>

Version: 2024-02-01

62
papers

1,889
citations

257357

24
h-index

254106

43
g-index

62
all docs

62
docs citations

62
times ranked

1502
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Chlorine-alkali electrolysis. , 2022, , 281-304. | | 4 |
| 2 | Direct Formation of Metal Layer on Anion Exchange Membrane Using Electroless Deposition Process. Electrochemistry, 2021, 89, 192-196. | 0.6 | 3 |
| 3 | Anion Exchange Membrane Water Electrolysis. Denki Kagaku, 2021, 89, 247-251. | 0.0 | 1 |
| 4 | Effect of water stoichiometry on deuterium isotope separation by anion exchange membrane water electrolysis. International Journal of Hydrogen Energy, 2021, 46, 33689-33695. | 3.8 | 6 |
| 5 | Effect of catalyst distribution and structural properties of anode porous transport electrodes on the performance of anion exchange membrane water electrolysis. International Journal of Hydrogen Energy, 2021, 46, 37757-37767. | 3.8 | 11 |
| 6 | Net Water Drag Coefficient during High Temperature Operation of Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2021, 168, 124505. | 1.3 | 5 |
| 7 | Corrosion Behavior of SUS 304L Steel in pH 13 NaOH Solution. Electrochemistry, 2020, 88, 468-474. | 0.6 | 5 |
| 8 | Measurement of Net Water Drag Coefficients in Polymer Electrolyte Fuel Cells under Cathode-Dry Conditions. Journal of the Electrochemical Society, 2019, 166, F1117-F1127. | 1.3 | 8 |
| 9 | Communication of Deuterium Isotope Separation by Solid Polymer Electrolyte Water Electrolysis. Journal of the Electrochemical Society, 2019, 166, F566-F568. | 1.3 | 8 |
| 10 | Incentives and legal barriers for power-to-hydrogen pathways: An international snapshot. International Journal of Hydrogen Energy, 2019, 44, 11394-11401. | 3.8 | 58 |
| 11 | Pressurized operation of anion exchange membrane water electrolysis. Electrochimica Acta, 2019, 297, 188-196. | 2.6 | 43 |
| 12 | Totalized Hydrogen Energy Utilization System. , 2018, , 385-406. | | 0 |
| 13 | Investigations on electrode configurations for anion exchange membrane electrolysis. Journal of Applied Electrochemistry, 2018, 48, 305-316. | 1.5 | 37 |
| 14 | Experimental investigation of electrolytic solution for anion exchange membrane water electrolysis. International Journal of Hydrogen Energy, 2018, 43, 17030-17039. | 3.8 | 67 |
| 15 | Experimental study on laboratory scale Totalized Hydrogen Energy Utilization System using wind power data. International Journal of Hydrogen Energy, 2017, 42, 13827-13838. | 3.8 | 21 |
| 16 | Economic and environmental assessment of phosphoric acid fuel cell-based combined heat and power system for an apartment complex. International Journal of Hydrogen Energy, 2017, 42, 15449-15463. | 3.8 | 36 |
| 17 | Application of a self-supporting microporous layer to gas diffusion layers of proton exchange membrane fuel cells. Journal of Power Sources, 2017, 342, 393-404. | 4.0 | 55 |
| 18 | Efficiency of unitized reversible fuel cell systems. International Journal of Hydrogen Energy, 2016, 41, 5803-5815. | 3.8 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Economic and environmental assessment of residential micro combined heat and power system application in Japan. International Journal of Hydrogen Energy, 2016, 41, 15111-15123. | 3.8 | 26 |
| 20 | Cross-permeation and consumption of hydrogen during proton exchange membrane electrolysis. International Journal of Hydrogen Energy, 2016, 41, 20439-20446. | 3.8 | 54 |
| 21 | Research and development of a laboratory scale Totalized Hydrogen Energy Utilization System. International Journal of Hydrogen Energy, 2016, 41, 1224-1236. | 3.8 | 27 |
| 22 | Experimental study on a laboratory scale Totalized Hydrogen Energy Utilization System for solar photovoltaic application. Applied Energy, 2016, 177, 309-322. | 5.1 | 17 |
| 23 | Effect of through-plane polytetrafluoroethylene distribution in gas diffusion layers on performance of proton exchange membrane fuel cells. Journal of Power Sources, 2016, 306, 289-299. | 4.0 | 39 |
| 24 | Effect of through-plane polytetrafluoroethylene distribution in a gas diffusion layer on a polymer electrolyte unitized reversible fuel cell. International Journal of Hydrogen Energy, 2015, 40, 16556-16565. | 3.8 | 24 |
| 25 | Research and development for a metal hydride tank with double coil type heat exchanger below 1.0MPa (G) operation. International Journal of Hydrogen Energy, 2015, 40, 2663-2672. | 3.8 | 15 |
| 26 | Visualization of the phase change behavior of sodium acetate trihydrate for latent heat storage. Applied Thermal Engineering, 2015, 91, 547-555. | 3.0 | 11 |
| 27 | Effect of through-Plane Polytetrafluoroethylene Distribution in a Gas Diffusion Layer. ECS Transactions, 2014, 64, 501-508. | 0.3 | 1 |
| 28 | Effect of through-plane distribution of polytetrafluoroethylene in carbon paper on in-plane gas permeability. Journal of Power Sources, 2014, 248, 822-830. | 4.0 | 44 |
| 29 | Effect of the Metal Hydride Tank Structure on the Reaction Heat Recovery for the Totalized Hydrogen Energy Utilization System. Journal of International Council on Electrical Engineering, 2013, 3, 103-109. | 0.4 | 1 |
| 30 | Influence of pore structural properties of current collectors on the performance of proton exchange membrane electrolyzer. Electrochimica Acta, 2013, 100, 242-248. | 2.6 | 125 |
| 31 | Metal hydride bed system model for renewable source driven Regenerative Fuel Cell. Journal of Alloys and Compounds, 2013, 580, S406-S409. | 2.8 | 22 |
| 32 | Study on a metal hydride tank to support energy storage for renewable energy. Journal of Alloys and Compounds, 2013, 580, S418-S422. | 2.8 | 26 |
| 33 | A Novel Lightweight Polymer Electrolyte Fuel Cell Stack for Robot Systems. ECS Transactions, 2013, 50, 805-815. | 0.3 | 1 |
| 34 | Effect of Through-Plane Polytetrafluoroethylene Distribution in a Gas Diffusion Layer on a Polymer Electrolyte Unitized Reversible Fuel Cell. ECS Transactions, 2013, 58, 1059-1068. | 0.3 | 9 |
| 35 | Effect of PTFE contents in the Gas Diffusion Layers of Polymer Electrolyte-based Unitized Reversible Fuel Cells. Journal of International Council on Electrical Engineering, 2012, 2, 171-177. | 0.4 | 18 |
| 36 | Numerical simulation of voltammetry focusing on the effect of initial concentration of products in reversible systems with complex stoichiometry. Russian Journal of Electrochemistry, 2012, 48, 887-894. | 0.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Experimental Study on a Metal Hydride Tank for the Totalized Hydrogen Energy Utilization System. Energy Procedia, 2012, 29, 463-468. | 1.8 | 19 |
| 38 | Study on control method of the stand-alone direct-coupling photovoltaic " Water electrolyzer. International Journal of Hydrogen Energy, 2012, 37, 4819-4828. | 3.8 | 41 |
| 39 | Study on absorption/desorption characteristics of a metal hydride tank for boil-off gas from liquid hydrogen. International Journal of Hydrogen Energy, 2012, 37, 5056-5062. | 3.8 | 10 |
| 40 | Experimental study on porous current collectors of PEM electrolyzers. International Journal of Hydrogen Energy, 2012, 37, 7418-7428. | 3.8 | 135 |
| 41 | Effect of titanium powder loading in gas diffusion layer of a polymer electrolyte unitized reversible fuel cell. Journal of Power Sources, 2012, 202, 108-113. | 4.0 | 67 |
| 42 | Effect of Titanium Powder Loading in Microporous Layer on a Polymer Electrolyte Unitized Reversible Fuel Cell. ECS Transactions, 2011, 41, 469-477. | 0.3 | 9 |
| 43 | The Development of the Totalized Hydrogen Energy Utilization System for Commercial Buildings. Journal of International Council on Electrical Engineering, 2011, 1, 194-199. | 0.4 | 7 |
| 44 | Design Concept and the Performance of a Metal Hydride Hydrogen Storage Tank in Totalized Hydrogen Energy Utilization System. , 2011, , . | | 0 |
| 45 | Properties of Nafion membranes under PEM water electrolysis conditions. International Journal of Hydrogen Energy, 2011, 36, 10527-10540. | 3.8 | 246 |
| 46 | Experimental study of hydrogen storage with reaction heat recovery using metal hydride in a totalized hydrogen energy utilization system. International Journal of Hydrogen Energy, 2011, 36, 11767-11776. | 3.8 | 41 |
| 47 | Numerical simulation of the hydrogen storage with reaction heat recovery using metal hydride in the totalized hydrogen energy utilization system. International Journal of Hydrogen Energy, 2011, 36, 10845-10854. | 3.8 | 31 |
| 48 | Numerical simulation of cyclic voltammetry for reversible systems with complex stoichiometry. Russian Journal of Electrochemistry, 2011, 47, 1006-1015. | 0.3 | 11 |
| 49 | Influence of properties of gas diffusion layers on the performance of polymer electrolyte-based unitized reversible fuel cells. International Journal of Hydrogen Energy, 2011, 36, 1740-1753. | 3.8 | 121 |
| 50 | Small-scale hydrogen liquefaction with a two-stage Gifford"McMahon cycle refrigerator. International Journal of Hydrogen Energy, 2010, 35, 9088-9094. | 3.8 | 20 |
| 51 | Effect of flow regime of circulating water on a proton exchange membrane electrolyzer. International Journal of Hydrogen Energy, 2010, 35, 9550-9560. | 3.8 | 116 |
| 52 | Influence of Different Gas Diffusion Layers on the Water Management of Polymer Electrolyte Unitized Reversible Fuel Cell. ECS Transactions, 2010, 33, 945-954. | 0.3 | 15 |
| 53 | Gas Purge for Switching from Electrolysis to Fuel Cell Operation in Polymer Electrolyte Unitized Reversible Fuel Cells. Journal of the Electrochemical Society, 2010, 157, B1072. | 1.3 | 32 |
| 54 | Gas Purge for Switching of Polymer Electrolyte Unitized Reversible Fuel Cell. ECS Transactions, 2009, 25, 1979-1990. | 0.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Durability Investigation of a PEM-type Unitized Reversible Cell. ECS Transactions, 2009, 25, 1271-1278. | 0.3 | 8 |
| 56 | Study on the Characteristics of Metal Hydride Tanks in Totalized Hydrogen Energy Management System With Renewable Energy. , 2007, , 645. | | 0 |
| 57 | Li/H ₂ cells with molten alkali chlorides electrolyte. Journal of Applied Electrochemistry, 2005, 35, 507-512. | 1.5 | 5 |
| 58 | Electrode Kinetics of Hydrogen Reduction in Molten Alkali Chlorides. Journal of the Electrochemical Society, 2003, 150, E244. | 1.3 | 5 |
| 59 | Electrode Behavior of Hydride Ion in Molten Alkali Chlorides. Journal of the Electrochemical Society, 2002, 149, E273. | 1.3 | 16 |
| 60 | Densities of Eutectic Mixtures of Molten Alkali Chlorides below 673 K. Journal of Chemical & Engineering Data, 2001, 46, 1203-1205. | 1.0 | 32 |
| 61 | Electrode Behavior of Hydrogen Reduction in LiCl-KCl Melt. AC Impedance Analysis. Journal of the Electrochemical Society, 2001, 148, E148. | 1.3 | 11 |
| 62 | Electrode Behavior of Hydrogen Reduction in LiCl-KCl Melt. Voltammetric Analysis. Journal of the Electrochemical Society, 2000, 147, 289. | 1.3 | 13 |