

Geonhui Gwak

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

490
citations

623734

14
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

481
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Numerical investigation of cold-start behavior of polymer-electrolyte fuel-cells from subzero to normal operating temperatures " Effects of cell boundary and operating conditions. International Journal of Hydrogen Energy, 2014, 39, 21927-21937. | 7.1 | 61 |
| 2 | Numerical comparison of heat-fin- and metal-foam-based hydrogen storage beds during hydrogen charging process. International Journal of Hydrogen Energy, 2015, 40, 14540-14550. | 7.1 | 48 |
| 3 | Development of an advanced MEA to use high-concentration methanol fuel in a direct methanol fuel cell system. International Journal of Hydrogen Energy, 2012, 37, 6285-6291. | 7.1 | 47 |
| 4 | A rapid start-up strategy for polymer electrolyte fuel cells at subzero temperatures based on control of the operating current density. International Journal of Hydrogen Energy, 2015, 40, 11989-11997. | 7.1 | 46 |
| 5 | Three-dimensional modeling and simulation of hydrogen desorption in metal hydride hydrogen storage vessels. International Journal of Hydrogen Energy, 2015, 40, 14322-14330. | 7.1 | 45 |
| 6 | Numerical modeling and simulations of active direct methanol fuel cell (DMFC) systems under various ambient temperatures and operating conditions. International Journal of Hydrogen Energy, 2017, 42, 1736-1750. | 7.1 | 44 |
| 7 | Analyzing oxygen transport resistance and Pt particle growth effect in the cathode catalyst layer of polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2020, 45, 13414-13427. | 7.1 | 35 |
| 8 | Three-dimensional transient modeling of a non-aqueous electrolyte lithium-air battery. Electrochimica Acta, 2016, 201, 395-409. | 5.2 | 27 |
| 9 | Studies of the methanol crossover and cell performance behaviors of high temperature-direct methanol fuel cells (HT-DMFCs). International Journal of Hydrogen Energy, 2018, 43, 13999-14011. | 7.1 | 24 |
| 10 | Analyzing the effects of fluctuating methanol feed concentration in active-type direct methanol fuel cell (DMFC) systems. International Journal of Hydrogen Energy, 2015, 40, 5396-5407. | 7.1 | 22 |
| 11 | Analysis of water film formation and low-humidity operation characteristics of a polymer electrolyte fuel cell (PEFC). International Journal of Hydrogen Energy, 2017, 42, 3731-3747. | 7.1 | 21 |
| 12 | Effect of variation of hydrophobicity of anode diffusion media along the through-plane direction in direct methanol fuel cells. International Journal of Hydrogen Energy, 2014, 39, 1564-1570. | 7.1 | 18 |
| 13 | Analyzing effects of volumetric expansion of uranium during hydrogen absorption. International Journal of Hydrogen Energy, 2017, 42, 3723-3730. | 7.1 | 16 |
| 14 | Performance and Efficiency Analysis of an HT-PEMFC System with an Absorption Chiller for Tri-Generation Applications. Energies, 2019, 12, 905. | 3.1 | 16 |
| 15 | Analyzing hydriding performance in full-scale depleted uranium beds. Energy, 2020, 193, 116742. | 8.8 | 7 |
| 16 | Multi-dimensional modeling and large-scale simulation of hydrogen absorption/desorption phenomena in metal hydride vessels (MHVs). Fusion Engineering and Design, 2018, 130, 107-113. | 1.9 | 5 |
| 17 | Effects of porous properties on cold-start behavior of polymer electrolyte fuel cells from sub-zero to normal operating temperatures. Scientific Reports, 2014, 4, 5770. | 3.3 | 3 |
| 18 | Numerical investigation of spatial variation of hydrophobicity in diffusion media along the through-plane direction in direct methanol fuel cells. International Journal of Hydrogen Energy, 2016, 41, 8277-8285. | 7.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Thermal Modeling of Lithium-ion Batteries with LiFePO_4 Electrodes. , 2018, , . | | 1 |
| 20 | Multi-Scale and Multi-Dimensional Thermal Modeling of Lithium-Ion Batteries. Energies, 2019, 12, 374. | 3.1 | 1 |
| 21 | In-situ Measurements of Vanadium Crossover Diffusivities in All-Vanadium Redox Flow Batteries During Charge- Discharge Cycles. , 2018, , . | | 0 |