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Publications

PUBLICATIONS

- **A review of solid oxide steam-electrolysis cell systems: Thermodynamics and thermal integration** *APPLIED ENERGY*
  Min, G., Choi, S., Hong, J.
  2022; 328
- **Optimal method for the anode exhaust gas recycling of atmospheric solid oxide fuel cell-combined heat and power systems** *JOURNAL OF POWER SOURCES*
  Park, Y., Min, G., Hong, J.
  2023; 567
- **Carbon-neutral conversion of methane supported by Ni-(Rh, Co) bimetallic catalysts for low-temperature proton-conducting ceramic fuel cells** *CHEMICAL ENGINEERING JOURNAL*
  Hong, K., Min, J., Min, G., Bae, Y., Hong, J.
  2023; 462
- **Sensitivity analysis of a solid oxide co-electrolysis cell system with respect to its key operating parameters and optimization with its performance map** *ENERGY CONVERSION AND MANAGEMENT*
  Min, G., Park, Y., Choi, S., Hong, J.
  2021; 249
- **Operational guidelines for a residential solid oxide fuel cell-combined heat and power system with an optimal system layout design** *ENERGY CONVERSION AND MANAGEMENT*
  Park, Y., Min, G., Hong, J.
  2021; 246
- **Development of the Aerodynamic Secondary Air Thermal Characteristics Integrated Program for the Initial Stage of Gas Turbine Design** *TRANSACTIONS OF THE KOREAN SOCIETY OF MECHANICAL ENGINEERS B*
  Cho, J., Im, B., Min, G., Park, Y., Hong, J.
  2021; 45 (2): 125-133
- **Thermodynamic analysis of a solid oxide co-electrolysis cell system for its optimal thermal integration with external heat supply** *ENERGY CONVERSION AND MANAGEMENT*
  Min, G., Park, Y., Hong, J.
  2020; 225
- **1D thermodynamic modeling for a solid oxide fuel cell stack and parametric study for its optimal operating conditions** *ENERGY CONVERSION AND MANAGEMENT*
  Min, G., Park, Y., Hong, J.
  2020; 209
- **Comparative study of solid oxide fuel cell-combined heat and power system designs for optimal thermal integration** *ENERGY CONVERSION AND MANAGEMENT*
  Park, Y., Min, G., Hong, J.
  2019; 182: 351-368