Jakub Kupecki

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Off-design analysis of a micro-CHP unit with solid oxide fuel cells fed by DME. International Journal of Hydrogen Energy, 2015, 40, 12009-12022.	3.8	59
2	Numerical model of planar anode supported solid oxide fuel cell fed with fuel containing H2S operated in direct internal reforming mode (DIR-SOFC). Applied Energy, 2018, 230, 1573-1584.	5.1	58
3	Experimental and numerical analysis of a serial connection of two SOFC stacks in a micro-CHP system fed by biogas. International Journal of Hydrogen Energy, 2017, 42, 3487-3497.	3.8	57
4	Energy analysis of a 10†kW-class power-to-gas system based on a solid oxide electrolyzer (SOE). Energy Conversion and Management, 2019, 199, 111934.	4.4	50
5	Dynamic analysis of direct internal reforming in a SOFC stack with electrolyte-supported cells using a quasi-1D model. Applied Energy, 2018, 227, 198-205.	5.1	44
6	Hydrogen production in solid oxide electrolyzers coupled with nuclear reactors. International Journal of Hydrogen Energy, 2021, 46, 35765-35776.	3.8	39
7	Dynamic modelling of reversible solid oxide cells for grid stabilization applications. Energy Conversion and Management, 2021, 228, 113674.	4.4	34
8	Dynamic numerical analysis of cross-, co-, and counter-current flow configuration of a 1ÂkW-class solid oxide fuel cell stack. International Journal of Hydrogen Energy, 2015, 40, 15834-15844.	3.8	32
9	SOFC-based micro-CHP system as an example of efficient power generation unit. Archives of Thermodynamics, 2011, 32, 33-43.	1.0	26
10	Numerical analysis of an SOFC stack under loss of oxidant related fault conditions using a dynamic non-adiabatic model. International Journal of Hydrogen Energy, 2019, 44, 21148-21161.	3.8	26
11	Characterization of a circular 80Âmm anode supported solid oxide fuel cell (AS-SOFC) with anode support produced using high-pressure injection molding (HPIM). International Journal of Hydrogen Energy, 2019, 44, 19405-19411.	3.8	25
12	ANN–supported control strategy for a solid oxide fuel cell working on demand for a public utility building. International Journal of Hydrogen Energy, 2018, 43, 3555-3565.	3.8	22
13	Parametric evaluation of a micro-CHP unit with solid oxide fuel cells integrated with oxygen transport membranes. International Journal of Hydrogen Energy, 2015, 40, 11633-11640.	3.8	19
14	Investigation of off-design characteristics of solid oxide electrolyser (SOE) operating in endothermic conditions. Renewable Energy, 2021, 170, 277-285.	4.3	19
15	Modeling and analysis of cross-flow solid oxide electrolysis cell with oxygen electrode/electrolyte interface oxygen pressure characteristics for hydrogen production. Journal of Power Sources, 2022, 529, 231248.	4.0	17
16	Analysis of H2S-related short-term degradation and regeneration of anode- and electrolyte supported solid oxide fuel cells fueled with biomass steam gasifier product gas. Energy, 2021, 218, 119556.	4.5	16
17	Modeling and control-oriented thermal safety analysis for mode switching process of reversible solid oxide cell system. Energy Conversion and Management, 2022, 255, 115318.	4.4	16
18	Variant analysis of the efficiency of industrial scale power station based on DC-SOFCs and DC-MCFCs. Energy, 2018, 156, 292-298.	4.5	14

Јакив Кирескі

#	Article	IF	CITATIONS
19	Mathematical model of a plate fin heat exchanger operating under solid oxide fuel cell working conditions. Archives of Thermodynamics, 2013, 34, 3-21.	1.0	13
20	Analysis of a Micro-CHP Unit with in-series SOFC Stacks Fed by Biogas. Energy Procedia, 2015, 75, 2021-2026.	1.8	13
21	Comparative Study of Biogas and DME Fed Micro-CHP System with Solid Oxide Fuel Cell. Applied Mechanics and Materials, 0, 267, 53-56.	0.2	11
22	Analysis of Soot Deposition Mechanisms on Nickel-Based Anodes of SOFCs in Single-Cell and Stack Environment. Processes, 2020, 8, 1370.	1.3	11
23	Boosting solid oxide electrolyzer performance by fine tuning the microstructure of electrodes – Preliminary study. International Journal of Hydrogen Energy, 2023, 48, 26436-26445.	3.8	11
24	Real coupling of solid oxide fuel cells with a biomass steam gasifier: Operating boundaries considering performance, tar and carbon deposition analyses. Fuel, 2022, 316, 123310.	3.4	10
25	Investigation of SOFC material properties for plant-level modeling. Open Chemistry, 2013, 11, 664-671.	1.0	9
26	Dynamic Modelling of the Direct Internal Reforming (DIR) of Methane in 60-cell Stack with Electrolyte Supported Cells. Energy Procedia, 2017, 105, 1700-1705.	1.8	9
27	Multi-Level Mathematical Modeling of Solid Oxide Fuel Cells. , 2012, , .		7
28	Modeling Platform for a Micro-CHP System with SOFC Operating under Load Changes. Applied Mechanics and Materials, 0, 607, 205-208.	0.2	7
29	Analysis of nodalization effects on the prediction error of generalized finite element method used for dynamic modeling of hot water storage tank. Archives of Thermodynamics, 2015, 36, 123-138.	1.0	6
30	Computational fluid dynamics analysis of an innovative start-up method of high temperature fuel cells using dynamic 3d model. Polish Journal of Chemical Technology, 2017, 19, 67-73.	0.3	6
31	Kinetic model of a plate fin heat exchanger with catalytic coating as a steam reformer of methane, biogas, and dimethyl ether. International Journal of Energy Research, 2019, 43, 2930-2939.	2.2	6
32	Analysis of operation of a micro-cogenerator with two solid oxide fuel cells stacks for maintaining neutral water balance. Energy, 2018, 152, 888-895.	4.5	5
33	Preliminary Electrochemical Characterization of Anode Supported Solid Oxide Cell (AS-SOC) Produced in the Institute of Power Engineering Operated in Electrolysis Mode (SOEC). Archives of Thermodynamics, 2017, 38, 53-63.	1.0	4
34	Modeling the dynamic operation of a small fin plate heat exchanger – parametric analysis. Archives of Thermodynamics, 2015, 36, 85-103.	1.0	3
35	Model-Based Approach for Analysis of the Sensitivity of Planar SOEC to Selected Parameters. ECS Transactions, 2018, 83, 171-178.	0.3	3
36	Modelling of Physical, Chemical, and Material Properties of Solid Oxide Fuel Cells. Journal of Chemistry, 2015, 2015, 1-7.	0.9	2

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37	Preliminary Long-Term Experimental Characterization of a Solid Oxide Fuel Cell Operated in DIR-SOFC Mode. ECS Transactions, 2019, 91, 471-477.	0.3	2
38	Investigation of off-design characteristics of solid oxide electrolyser (SOE) operated in endothermic conditions. E3S Web of Conferences, 2019, 137, 01029.	0.2	2
39	Multilevel modeling of solid oxide electrolysis. , 2020, , 123-166.		2
40	Quantification of the Improvement of Performance of Solid Oxide Fuel Cell Using Chiller-Based Fuel Recirculation. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	2
41	Selected Aspects of Design, Construction, and Operation of SOFC-Based Micro-Combined Heat and Power Systems. Green Energy and Technology, 2018, , 205-231.	0.4	1
42	Effects of the Gas Velocity on Formation of the Carbon Deposits on Fuel Electrode of AS-SOFC. ECS Meeting Abstracts, 2017, , .	0.0	1
43	Influence of the Contamination of Fuel with Fly Ash Originating from Biomass Gasification on the Performance of the Anode-Supported SOFC. Energies, 2022, 15, 1469.	1.6	1
44	Efficient and Economically Favorable Co-Free Air Electrodes for Solid Oxide Cells. ECS Transactions, 2021, 103, 1497-1504.	0.3	0
45	Modeling of SOFC-Based Power Systems. Green Energy and Technology, 2018, , 143-162.	0.4	0
46	Profiled Anode Supported Solid Oxide Fuel Cells for Low Cost Stacks for Stationary Applications. ECS Meeting Abstracts, 2018, , .	0.0	0