

Mads Pagh Nielsen

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,546
citations

361296

20
h-index

377752

34
g-index

39
all docs

39
docs citations

39
times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy analysis and surrogate modeling for the green methanol production under dynamic operating conditions. <i>Fuel</i> , 2022, 307, 121924.	3.4	22
2	Optimization of a Hybrid Energy System with District Heating and Cooling Considering Off-Design Characteristics of Components, an Effort on Optimal Compressed Air Energy Storage Integration. <i>Energies</i> , 2022, 15, 4634.	1.6	3
3	Multi-objective optimization of a combined cooling, heating, and power system with subcooled compressed air energy storage considering off-design characteristics. <i>Applied Thermal Engineering</i> , 2021, 187, 116562.	3.0	24
4	Quantification of realistic performance expectations from trigeneration CAES-ORC energy storage system in real operating conditions. <i>Energy Conversion and Management</i> , 2021, 249, 114828.	4.4	23
5	Development of a micro-compressed air energy storage system model based on experiments. <i>Energy</i> , 2020, 197, 117152.	4.5	36
6	A Review of The Methanol Economy: The Fuel Cell Route. <i>Energies</i> , 2020, 13, 596.	1.6	123
7	Modeling a novel combined solid oxide electrolysis cell (SOEC) - Biomass gasification renewable methanol production system. <i>Renewable Energy</i> , 2020, 154, 1025-1034.	4.3	69
8	An experimental study of the drag reducing surfactant for district heating and cooling. <i>Energy</i> , 2019, 178, 72-78.	4.5	15
9	Performance of a reversible heat pump/organic Rankine cycle unit coupled with a passive house to get a positive energy building. <i>Journal of Building Performance Simulation</i> , 2018, 11, 19-35.	1.0	15
10	Experimental and Numerical Investigation of Humidity Effect on Performance of PEM Fuel Cells. <i>ECS Transactions</i> , 2017, 80, 345-356.	0.3	1
11	Modeling and experimental validation of water mass balance in a PEM fuel cell stack. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3079-3092.	3.8	64
12	Solid oxide fuel cell performance comparison fueled by methane, MeOH, EtOH and gasoline surrogate C ₈ H ₁₈ . <i>Applied Thermal Engineering</i> , 2016, 99, 1101-1109.	3.0	19
13	Modelling and Validation of Water Hydration of PEM Fuel Cell Membrane in Dynamic Operations. <i>ECS Transactions</i> , 2015, 68, 169-176.	0.3	1
14	Modeling and optimization of a heat-pump-assisted high temperature proton exchange membrane fuel cell micro-combined-heat-and-power system for residential applications. <i>Applied Energy</i> , 2015, 147, 569-581.	5.1	49
15	Modelling of a Solid Oxide Fuel Cell CHP System Coupled with a Hot Water Storage Tank for a Single Household. <i>Energies</i> , 2015, 8, 2211-2229.	1.6	16
16	Smart Grid Enabled Heat Pumps: An Empirical Platform for Investigating how Residential Heat Pumps can Support Large-scale Integration of Intermittent Renewables. <i>Energy Procedia</i> , 2014, 61, 1695-1698.	1.8	12
17	Influence of anodic gas recirculation on solid oxide fuel cells in a micro combined heat and power system. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 8, 99-108.	1.7	18
18	Thermal modeling and temperature control of a PEM fuel cell system for forklift applications. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8410-8420.	3.8	120

#	ARTICLE	IF	CITATIONS
19	Local versus national: designing supply systems for individual net zero energy buildings with flexible electricity prices. WIT Transactions on Ecology and the Environment, 2014, , .	0.0	0
20	Optimization of a High Temperature PEMFC micro-CHP System by Formulation and Application of a Process Integration Methodology. Fuel Cells, 2013, 13, 238-248.	1.5	12
21	Ejector design and performance evaluation for recirculation of anode gas in a micro combined heat and power systems based on solid oxide fuel cell. Applied Thermal Engineering, 2013, 54, 26-34.	3.0	41
22	Application of an improved operational strategy on a PBI fuel cell-based residential system for Danish single-family households. Applied Thermal Engineering, 2013, 50, 704-713.	3.0	30
23	A cost optimization model for 100% renewable residential energy supply systems. Energy, 2012, 48, 118-127.	4.5	88
24	Modeling and optimization of a 1kW _e HT-PEMFC-based micro-CHP residential system. International Journal of Hydrogen Energy, 2012, 37, 2470-2481.	3.8	58
25	Continuous production of bio-oil by catalytic liquefaction from wet distiller's grain with solubles (WDGS) from bio-ethanol production. Biomass and Bioenergy, 2012, 36, 327-332.	2.9	46
26	Analysis of the impact of heat-to-power ratio for a SOFC-based mCHP system for residential application under different climate regions in Europe. International Journal of Hydrogen Energy, 2011, 36, 13715-13726.	3.8	46
27	Modeling and off-design performance of a 1kW _e HT-PEMFC (high temperature-proton exchange) Tj ETQq1 1 0.784314 rgBT /Overlock single-family households. Energy, 2011, 36, 993-1002.	4.5	82
28	Performance comparison between partial oxidation and methane steam reforming processes for solid oxide fuel cell (SOFC) micro combined heat and power (CHP) system. Energy, 2011, 36, 4216-4226.	4.5	153
29	Modeling and parametric study of a 1kW _e HT-PEMFC-based residential micro-CHP system. International Journal of Hydrogen Energy, 2011, 36, 5010-5020.	3.8	72
30	Operation Strategy for Solid Oxide Fuel Cell Systems for Small-Scale Stationary Applications. International Journal of Green Energy, 2009, 6, 583-593.	2.1	9
31	Part two: Control of a novel HTPEM-based micro combined heat and power fuel cell system. International Journal of Hydrogen Energy, 2008, 33, 1921-1931.	3.8	48
32	Part one: A novel model of HTPEM-based micro-combined heat and power fuel cell system. International Journal of Hydrogen Energy, 2008, 33, 1909-1920.	3.8	72
33	Modeling and Implementation of a 1 kW, Air Cooled HTPEM Fuel Cell in a Hybrid Electrical Vehicle. ECS Transactions, 2008, 12, 639-650.	0.3	13
34	Experimental Evaluation of a Pt-based Heat Exchanger Methanol Reformer for a HTPEM Fuel Cell Stack. ECS Transactions, 2008, 12, 571-578.	0.3	3
35	Experimental characterization and modeling of commercial polybenzimidazole-based MEA performance. Journal of Power Sources, 2006, 162, 239-245.	4.0	128
36	Modeling of CO Influence in PBI Electrolyte PEM Fuel Cells. , 2006, , 911.		14

#	ARTICLE	IF	CITATIONS
37	Optimal Operation in CHP Systems: Using Mathematical Programming and Heuristic Rules. , 2000, , .		0