Mads Pagh Nielsen

List of Publications by Year
in descending order

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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	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
2	Experimental characterization and modeling of commercial polybenzimidazole-based MEA performance. Journal of Power Sources, 2006, 162, 239-245.	4.0	128
3	A Review of The Methanol Economy: The Fuel Cell Route. Energies, 2020, 13, 596.	1.6	123
4	Thermal modeling and temperature control of a PEM fuel cell system for forklift applications. International Journal of Hydrogen Energy, 2014, 39, 8410-8420.	3.8	120
5	A cost optimization model for 100% renewable residential energy supply systems. Energy, 2012, 48, 118-127.	4.5	88
6	Modeling and off-design performance of a 1kWe HT-PEMFC (high temperature-proton exchange) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 single-family households. Energy, 2011, 36, 993-1002.	4.5	82
7	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
8	Modeling and parametric study of a 1kWe HT-PEMFC-based residential micro-CHP system. International Journal of Hydrogen Energy, 2011, 36, 5010-5020.	3.8	72
9	Modeling a novel combined solid oxide electrolysis cell (SOEC) - Biomass gasification renewable methanol production system. Renewable Energy, 2020, 154, 1025-1034.	4.3	69
10	Modeling and experimental validation of water mass balance in a PEM fuel cell stack. International Journal of Hydrogen Energy, 2016, 41, 3079-3092.	3.8	64
11	Modeling and optimization of a 1ÂkWe HT-PEMFC-based micro-CHP residential system. International Journal of Hydrogen Energy, 2012, 37, 2470-2481.	3.8	58
12	Modeling and optimization of a heat-pump-assisted high temperature proton exchange membrane fuel cell micro-combined-heat-and-power system for residential applications. Applied Energy, 2015, 147, 569-581.	5.1	49
13	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
14	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
15	Continuous production of bio-oil by catalytic liquefaction from wet distillerâ€™s grain with solubles (WDGS) from bio-ethanol production. Biomass and Bioenergy, 2012, 36, 327-332.	2.9	46
16	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
17	Development of a micro-compressed air energy storage system model based on experiments. Energy, 2020, 197, 117152.	4.5	36
18	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

#	Article	IF	Citations
19	Multi-objective optimization of a combined cooling, heating, and power system with subcooled compressed air energy storage considering off-design characteristics. Applied Thermal Engineering, 2021, 187, 116562.	3.0	24
20	Quantification of realistic performance expectations from trigeneration CAES-ORC energy storage system in real operating conditions. Energy Conversion and Management, 2021, 249, 114828.	4.4	23
21	Energy analysis and surrogate modeling for the green methanol production under dynamic operating conditions. Fuel, 2022, 307, 121924.	3.4	22
22	Solid oxide fuel cell performance comparison fueled by methane, MeOH, EtOH and gasoline surrogate C 8 H 18. Applied Thermal Engineering, 2016, 99, 1101-1109.	3.0	19
23	Influence of anodic gas recirculation on solid oxide fuel cells in a micro combined heat and power system. Sustainable Energy Technologies and Assessments, 2014, 8, 99-108.	1.7	18
24	Modelling of a Solid Oxide Fuel Cell CHP System Coupled with a Hot Water Storage Tank for a Single Household. Energies, 2015, 8, 2211-2229.	1.6	16
25	Performance of a reversible heat pump/organic Rankine cycle unit coupled with a passive house to get a positive energy building. Journal of Building Performance Simulation, 2018, 11, 19-35.	1.0	15
26	An experimental study of the drag reducing surfactant for district heating and cooling. Energy, 2019, 178, 72-78.	4.5	15
27	Modeling of CO Influence in PBI Electrolyte PEM Fuel Cells. , 2006, , 911.		14
28	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
29	Optimization of a High Temperature PEMFC microâ€CHP System by Formulation and Application of a Process Integration Methodology. Fuel Cells, 2013, 13, 238-248.	1.5	12
30	Smart Grid Enabled Heat Pumps: An Empirical Platform for Investigating how Residential Heat Pumps can Support Large-scale Integration of Intermittent Renewables. Energy Procedia, 2014, 61, 1695-1698.	1.8	12
31	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
32	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
33	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. Energies, 2022, 15, 4634.	1.6	3
34	Modelling and Validation of Water Hydration of PEM Fuel Cell Membrane in Dynamic Operations. ECS Transactions, 2015, 68, 169-176.	0.3	1
35	Experimental and Numerical Investigation of Humidity Effect on Performance of PEM Fuel Cells. ECS Transactions, 2017, 80, 345-356.	0.3	1
36	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

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