List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Experimental investigation of direct internal reforming of biogas in solid oxide fuel cells. International Journal of Hydrogen Energy, 2010, 35, 2463-2476.	7.1	132
2	Energy and economic analysis of a water scrubbing based biogas upgrading process for biomethane injection into the gas grid or use as transportation fuel. Renewable Energy, 2017, 102, 417-432.	8.9	119
3	Durability of anode supported Solid Oxides Fuel Cells (SOFC) under direct dry-reforming of methane. Chemical Engineering Journal, 2013, 220, 254-263.	12.7	118
4	Synthetic natural gas via integrated high-temperature electrolysis and methanation: Part l—Energy performance. Journal of Energy Storage, 2015, 1, 22-37.	8.1	114
5	A comparative assessment on hydrogen production from low- and high-temperature electrolysis. International Journal of Hydrogen Energy, 2013, 38, 3523-3536.	7.1	103
6	Exergetic and exergoeconomic analysis of post-combustion CO 2 capture using MEA-solvent chemical absorption. Energy, 2017, 130, 113-128.	8.8	94
7	Enhancing the Energy Efficiency of Wastewater Treatment Plants through Co-digestion and Fuel Cell Systems. Frontiers in Environmental Science, 2017, 5, .	3.3	87
8	Three-dimensional printed yttria-stabilized zirconia self-supported electrolytes for solid oxide fuel cell applications. Journal of the European Ceramic Society, 2019, 39, 9-16.	5.7	80
9	Thermoeconomic analysis of large solid oxide fuel cell plants: Atmospheric vs. pressurized performance. Energy, 2013, 55, 142-155.	8.8	77
10	Synthetic natural gas via integrated high-temperature electrolysis and methanation: Part II—Economic analysis. Journal of Energy Storage, 2015, 2, 64-79.	8.1	76
11	Reversible operation of solid oxide cells under electrolysis and fuel cell modes: Experimental study and model validation. Chemical Engineering Journal, 2015, 274, 143-155.	12.7	71
12	Greening the gas network – The need for modelling the distributed injection of alternative fuels. Renewable and Sustainable Energy Reviews, 2017, 70, 266-286.	16.4	69
13	Design and optimization of a proton exchange membrane fuel cell CHP system for residential use. Energy and Buildings, 2014, 69, 381-393.	6.7	68
14	Microstructural and electrical characterization of Mn-Co spinel protective coatings for solid oxide cell interconnects. Journal of the European Ceramic Society, 2017, 37, 4781-4791.	5.7	66
15	Techno-economic and policy requirements for the market-entry of the fuel cell micro-CHP system in the residential sector. Applied Energy, 2015, 143, 370-382.	10.1	62
16	New glass and glass–ceramic sealants for planar solid oxide fuel cells. Journal of the European Ceramic Society, 2010, 30, 933-940.	5.7	60
17	Coupling and thermal integration of a solid oxide fuel cell with a magnesium hydride tank. International Journal of Hydrogen Energy, 2013, 38, 4740-4747.	7.1	60
18	Direct steam generation in parabolic-trough collectors: A review about the technology and a thermo-economic analysis of a hybrid system. Renewable and Sustainable Energy Reviews, 2017, 74, 453-473.	16.4	58

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19	Electrochemical performance of solid oxide fuel cell: Experimental study and calibrated model. Energy, 2018, 142, 932-943.	8.8	57
20	Experimental investigations of the microscopic features and polarization limiting factors of planar SOFCs with LSM and LSCF cathodes. Journal of Power Sources, 2008, 177, 111-122.	7.8	56
21	Green Synthetic Fuels: Renewable Routes for the Conversion of Non-Fossil Feedstocks into Gaseous Fuels and Their End Uses. Energies, 2020, 13, 420.	3.1	54
22	Methane-free biogas for direct feeding of solid oxide fuel cells. Journal of Power Sources, 2010, 195, 239-248.	7.8	53
23	Influence of electrolyte ageing on the Plasma Electrolytic Oxidation of aluminium. Surface and Coatings Technology, 2015, 269, 36-46.	4.8	52
24	Computer experimental analysis of the CHP performance of a 100kWe SOFC Field Unit by a factorial design. Journal of Power Sources, 2006, 156, 400-413.	7.8	51
25	Optimization of dry reforming of methane over Ni/YSZ anodes forÂsolid oxide fuel cells. Journal of Power Sources, 2014, 245, 154-163.	7.8	51
26	Microstructural characterization of solid oxide fuel cell electrodes by image analysis technique. Journal of Power Sources, 2009, 194, 408-422.	7.8	50
27	The effect of heavy tars (toluene and naphthalene) on the electrochemical performance of an anode-supported SOFC running on bio-syngas. Renewable Energy, 2016, 99, 747-753.	8.9	50
28	Limiting factors for planar solid oxide fuel cells under different trace compound concentrations. Energy, 2016, 95, 67-78.	8.8	50
29	Advanced Methods of Solid Oxide Fuel Cell Modeling. Green Energy and Technology, 2011, , .	0.6	45
30	Bio-hydrogen production from organic wastes in a pilot plant reactor and its use in a SOFC. International Journal of Hydrogen Energy, 2011, 36, 7861-7865.	7.1	42
31	An electricity triangle for energy transition: Application to Italy. Applied Energy, 2020, 277, 115525.	10.1	42
32	Design of experiments for fitting regression models on the tubular SOFC CHP100kWe: Screening test, response surface analysis and optimization. International Journal of Hydrogen Energy, 2007, 32, 343-358.	7.1	39
33	Biogas from the organic fraction of municipal solid waste: Dealing with contaminants for a solid oxide fuel cell energy generator. Waste Management, 2014, 34, 2047-2056.	7.4	39
34	Electrical and gas networks coupling through hydrogen blending under increasing distributed photovoltaic generation. Applied Energy, 2021, 290, 116764.	10.1	39
35	Experimental study of dry reforming of biogas in a tubular anode-supported solid oxide fuel cell. International Journal of Hydrogen Energy, 2013, 38, 10559-10566.	7.1	37
36	Performance of a glass-ceramic sealant in a SOFC short stack. International Journal of Hydrogen Energy, 2013, 38, 588-596.	7.1	35

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37	A review of Nigerian energy access studies: The story told so far. Renewable and Sustainable Energy Reviews, 2020, 120, 109646.	16.4	35
38	Operation of a solid oxide fuel cell under direct internal reforming of liquid fuels. Chemical Engineering Journal, 2012, 191, 349-355.	12.7	34
39	Experimental evaluation of the sensitivity to fuel utilization and air management on a 100kW SOFC system. Journal of Power Sources, 2007, 171, 155-168.	7.8	32
40	Performance and testing of joined Crofer22APU-glass-ceramic sealant-anode supported cell in SOFC relevant conditions. Materials Letters, 2011, 65, 1048-1052.	2.6	32
41	Impedance spectroscopy analysis inspired by evolutionary programming as a diagnostic tool for SOEC and SOFC. Solid State Ionics, 2016, 288, 307-310.	2.7	32
42	Design and Balance-of-Plant of a Demonstration Plant With a Solid Oxide Fuel Cell Fed by Biogas From Waste-Water and Exhaust Carbon Recycling for Algae Growth. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	27
43	Non-stoichiometric methanation as strategy to overcome the limitations of green hydrogen injection into the natural gas grid. Applied Energy, 2022, 309, 118462.	10.1	24
44	Experimental Investigations and Modeling of Direct Internal Reforming of Biogases in Tubular Solid Oxide Fuel Cells. Fuel Cells, 2011, 11, 697-710.	2.4	22
45	Solar hydrogen from North Africa to Europe through greenstream: A simulation-based analysis of blending scenarios and production plant sizing. International Journal of Hydrogen Energy, 2021, 46, 22618-22637.	7.1	21
46	Low emissions analysis platform model for renewable energy: Community-scale case studies in Nigeria. Sustainable Cities and Society, 2021, 67, 102750.	10.4	20
47	Biogas blending into the gas grid of a small municipality for the decarbonization of the heating sector. Biomass and Bioenergy, 2019, 127, 105295.	5.7	19
48	Thermodynamic Analysis of Coupling aÂSOEC in Co lectrolysis Mode with the Dimethyl Ether Synthesis. Fuel Cells, 2015, 15, 669-681.	2.4	18
49	Influence of the microstructure on the catalytic properties of SOFC anodes under dry reforming of methane. Materials Letters, 2016, 164, 312-315.	2.6	17
50	Experimental Analysis of the Voltage and Temperature Behavior of a Solid Oxide Fuel Cell Generator. Journal of Fuel Cell Science and Technology, 2007, 4, 143-153.	0.8	15
51	Experimental evaluation of the operating temperature impact on solid oxide anode-supported fuel cells. International Journal of Hydrogen Energy, 2008, 33, 3167-3172.	7.1	15
52	Demonstration of the integrated rural energy planning framework for sustainable energy development in low-income countries: Case studies of rural communities in Nigeria. Renewable and Sustainable Energy Reviews, 2021, 144, 110983.	16.4	14
53	Analysis of the thermal field of a seal-less planar solid oxide fuel cell. Journal of Power Sources, 2012, 204, 100-105.	7.8	13
54	Model-based analysis of thermal energy storage for multiple temperature level heat supply. Applied Thermal Engineering, 2018, 141, 288-297.	6.0	9

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55	Generation of synthetic models of gas distribution networks with spatial and multi-level features. International Journal of Electrical Power and Energy Systems, 2020, 117, 105656.	5.5	9
56	Experimental Modeling of Transients in Large SOFC Systems. Journal of Fuel Cell Science and Technology, 2013, 10, .	0.8	7
57	Topological modelling of gas networks for co-simulation applications in multi-energy systems. Mathematics and Computers in Simulation, 2021, 183, 244-253.	4.4	7
58	Performances and Degradation Phenomena of Solid Oxide Anode Supported Cells With LSM and LSCF Cathodes: An Experimental Assessment. Journal of Fuel Cell Science and Technology, 2009, 6, .	0.8	6
59	Experimental Evaluation of Planar SOFC Single Unit Cell With Crofer22APU Plate Assembly. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	6
60	A Statistical Assessment of Blending Hydrogen into Gas Networks. Energies, 2021, 14, 5055.	3.1	6
61	Feasibility of SOFC Operation with Bio-Methane and Bio-Hydrogen from Anaerobic Digestion. ECS Transactions, 2009, 17, 185-195.	0.5	5
62	Limiting Factors for a Planar Solid Oxide Fuel Cell Under Different Flow and Temperature Conditions. Fuel Cells, 2013, 13, n/a-n/a.	2.4	5
63	Model and Simulation of a SOFC CHP Plant Fuelled with Hydrogen. ECS Transactions, 2007, 5, 553-563.	0.5	4
64	Experimental Activity on the Tubular SOFC CHP100 kWe Field Unit in Italy: Factor Significance, Effects and Regression Model Analysis. , 2006, , .		4
65	Exergetic and Exergoeconomic Analysis of Three Different Technologies for Post-combustion CO2 Capture. Energy Procedia, 2017, 114, 6455-6464.	1.8	3
66	Creation of Representative Gas Distribution Networks for Multi-vector Energy System Studies. , 2019, ,		3
67	Experimental Analysis of the Polarization Effects at Variable Local Temperature and Fuel Consumption in a 100 kWe SOFC Stack. ECS Transactions, 2007, 5, 533-544.	0.5	2
68	Synthetic gas networks for the statistical assessment of low-carbon distribution systems. Sustainable Energy, Grids and Networks, 2022, 31, 100765.	3.9	2
69	Experimental Analysis of the Temperature and Voltage Distribution of a SOFC Generator Varying the Air Stoichiometry and Pre-Heating Temperature. , 2006, , 465.		1
70	Polarization Analysis and Microstructural Characterization of SOFC Anode and Electrolyte Supported Cells. ECS Transactions, 2008, 12, 343-353.	0.5	1
71	Design and Balance-of-Plant of a Demonstration Plant With a Solid Oxide Fuel Cell Fed by Biogas From Waste-Water and Exhaust Carbon Recycling for Algae Growth. , 2013, , .		1
72	Pressure management in smart gas networks for increasing hydrogen blending. E3S Web of Conferences, 2022, 334, 03003.	0.5	1

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73	Addendum: Rozzi, E.; Minuto, F.D.; Lanzini, A.; Leone, P. Green Synthetic Fuels: Renewable Routes for the Conversion of Non-Fossil Feedstocks into Gaseous Fuels and Their End Uses. Energies 2020, 13, 420. Energies, 2020, 13, 1211.	3.1	0
74	Performance and Degradation Effects of Anode-Supported Cells With LSM and LSCF Cathodes. , 2007, , .		0
75	Utilisation of Biogas From an Urban Sewage Treatment Plant in a Solid Oxide Fuel Cell. , 2010, , .		0
76	Experimental Investigation and Modeling of Direct Internal Reforming of Biogases in Tubular SOFC. , 2010, , .		0