

Giampaolo Manzolini

List of Publications by Year in descending order

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Version: 2024-02-01

186
papers

6,734
citations

57719

44
h-index

79644

73
g-index

188
all docs

188
docs citations

188
times ranked

5386
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of different physical models for PV power output prediction. <i>Solar Energy</i> , 2015, 119, 83-99.	2.9	268
2	Pre-combustion CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 40, 167-187.	2.3	253
3	Energy analysis of electric vehicles using batteries or fuel cells through well-to-wheel driving cycle simulations. <i>Journal of Power Sources</i> , 2009, 186, 464-477.	4.0	252
4	A detailed MILP optimization model for combined cooling, heat and power system operation planning. <i>Energy</i> , 2014, 74, 12-26.	4.5	221
5	Experimental investigation of partial shading scenarios on PV (photovoltaic) modules. <i>Energy</i> , 2013, 55, 466-475.	4.5	184
6	Classification and challenges of bottom-up energy system models - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 129, 109917.	8.2	167
7	Physical and hybrid methods comparison for the day ahead PV output power forecast. <i>Renewable Energy</i> , 2017, 113, 11-21.	4.3	150
8	CO ₂ capture from combined cycles integrated with Molten Carbonate Fuel Cells. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 441-451.	2.3	139
9	Comparison of different solar plants based on parabolic trough technology. <i>Solar Energy</i> , 2012, 86, 1208-1221.	2.9	139
10	Preliminary assessment of sCO ₂ cycles for power generation in CSP solar tower plants. <i>Applied Energy</i> , 2017, 204, 1007-1017.	5.1	126
11	Economic analysis of CO ₂ capture from natural gas combined cycles using Molten Carbonate Fuel Cells. <i>Applied Energy</i> , 2014, 130, 562-573.	5.1	115
12	Thermodynamic assessment of amine based CO ₂ capture technologies in power plants based on European Benchmarking Task Force methodology. <i>Fuel</i> , 2014, 129, 318-329.	3.4	111
13	CO ₂ capture in integrated gasification combined cycle with SEWGS – Part A: Thermodynamic performances. <i>Fuel</i> , 2013, 105, 206-219.	3.4	110
14	CO ₂ cryogenic separation from combined cycles integrated with molten carbonate fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10355-10365.	3.8	105
15	An efficient robust optimization model for the unit commitment and dispatch of multi-energy systems and microgrids. <i>Applied Energy</i> , 2020, 261, 113859.	5.1	99
16	Economic assessment of novel amine based CO ₂ capture technologies integrated in power plants based on European Benchmarking Task Force methodology. <i>Applied Energy</i> , 2015, 138, 546-558.	5.1	94
17	Transition pathways optimization methodology through EnergyPLAN software for long-term energy planning. <i>Applied Energy</i> , 2019, 235, 356-368.	5.1	94
18	H ₂ production by low pressure methane steam reforming in a Pd/Ag membrane reactor over a Ni-based catalyst: Experimental and modeling. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11514-11524.	3.8	90

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19	Multi-objective optimization algorithm coupled to EnergyPLAN software: The EPLANopt model. <i>Energy</i> , 2018, 149, 213-221.	4.5	89
20	Methane steam reforming in a Pd-Ag membrane reformer: An experimental study on reaction pressure influence at middle temperature. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1531-1539.	3.8	74
21	Soiling of solar collectors – Modelling approaches for airborne dust and its interactions with surfaces. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 2343-2357.	8.2	74
22	A design and dispatch optimization algorithm based on mixed integer linear programming for rural electrification. <i>Applied Energy</i> , 2019, 233-234, 1104-1121.	5.1	74
23	Snail Trails and Cell Microcrack Impact on PV Module Maximum Power and Energy Production. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 1269-1277.	1.5	72
24	Green Hydrogen Production from Raw Biogas: A Techno-Economic Investigation of Conventional Processes Using Pressure Swing Adsorption Unit. <i>Processes</i> , 2018, 6, 19.	1.3	71
25	Experimental study of steam methane reforming in a Pd-based fluidized bed membrane reactor. <i>Chemical Engineering Journal</i> , 2013, 222, 307-320.	6.6	69
26	Comparison of Two Linear Collectors in Solar Thermal Plants: Parabolic Trough Versus Fresnel. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2013, 135, .	1.1	68
27	Investigation on Performance Decay on Photovoltaic Modules: Snail Trails and Cell Microcracks. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 1204-1211.	1.5	67
28	Comparison of Thermocline Molten Salt Storage Performances to Commercial Two-tank Configuration. <i>Energy Procedia</i> , 2014, 49, 694-704.	1.8	67
29	Comparison of sodium and KCl-MgCl ₂ as heat transfer fluids in CSP solar tower with sCO ₂ power cycles. <i>Solar Energy</i> , 2018, 162, 510-524.	2.9	66
30	Experimental and modelling study of an electrochemical hydrogen compressor. <i>Chemical Engineering Journal</i> , 2019, 369, 432-442.	6.6	66
31	Using MCFC for high efficiency CO ₂ capture from natural gas combined cycles: Comparison of internal and external reforming. <i>Applied Energy</i> , 2013, 112, 772-783.	5.1	65
32	Hydrogen production from ethanol steam reforming: energy efficiency analysis of traditional and membrane processes. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 5571-5582.	3.8	61
33	Reduced order modeling of the Shell-Prenflo entrained flow gasifier. <i>Fuel</i> , 2013, 104, 822-837.	3.4	61
34	HFOs as substitute for R-134a as working fluids in ORC power plants: A thermodynamic assessment and thermal stability analysis. <i>Applied Thermal Engineering</i> , 2016, 103, 790-797.	3.0	60
35	CO ₂ mixtures as innovative working fluid in power cycles applied to solar plants. Techno-economic assessment. <i>Solar Energy</i> , 2019, 181, 530-544.	2.9	60
36	CO ₂ capture in Integrated Gasification Combined Cycle with SEWGS – Part B: Economic assessment. <i>Fuel</i> , 2013, 105, 220-227.	3.4	59

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37	Assessing the impact of a two-layer predictive dispatch algorithm on design and operation of off-grid hybrid microgrids. <i>Renewable Energy</i> , 2019, 143, 1439-1453.	4.3	59
38	Development of an innovative code for the design of thermodynamic solar power plants part A: Code description and test case. <i>Renewable Energy</i> , 2011, 36, 1993-2003.	4.3	56
39	CO2 capture in natural gas combined cycle with SEWGS. Part B: Economic assessment. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 502-509.	2.3	51
40	SEWGS Technology is Now Ready for Scale-up!. <i>Energy Procedia</i> , 2013, 37, 2265-2273.	1.8	51
41	CO2 capture in integrated steelworks by commercial-ready technologies and SEWGS process. <i>International Journal of Greenhouse Gas Control</i> , 2015, 41, 249-267.	2.3	51
42	Fixed bed membrane reactor for hydrogen production from steam methane reforming: Experimental and modeling approach. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7559-7567.	3.8	49
43	Potentiality of a biogas membrane reformer for decentralized hydrogen production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 129, 131-141.	1.8	49
44	Innovative membrane reformer for hydrogen production applied to PEM micro-cogeneration: Simulation model and thermodynamic analysis. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1361-1373.	3.8	47
45	A comprehensive modeling of the hybrid temperature electric swing adsorption process for CO2 capture. <i>International Journal of Greenhouse Gas Control</i> , 2018, 74, 155-173.	2.3	45
46	Comparison between fixed bed and fluidized bed membrane reactor configurations for PEM based micro-cogeneration systems. <i>Chemical Engineering Journal</i> , 2011, 171, 1415-1427.	6.6	44
47	Achievements of European projects on membrane reactor for hydrogen production. <i>Journal of Cleaner Production</i> , 2017, 161, 1442-1450.	4.6	44
48	On concentration polarisation in a fluidized bed membrane reactor for biogas steam reforming: Modelling and experimental validation. <i>Chemical Engineering Journal</i> , 2018, 348, 232-243.	6.6	44
49	A rolling-horizon optimization algorithm for the long term operational scheduling of cogeneration systems. <i>Energy</i> , 2019, 184, 73-90.	4.5	44
50	CO2 capture in natural gas combined cycle with SEWGS. Part A: Thermodynamic performances. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 493-501.	2.3	43
51	Preliminary Assessment of sCO ₂ Power Cycles for Application to CSP Solar Tower Plants. <i>Energy Procedia</i> , 2017, 105, 1116-1122.	1.8	42
52	Techno-economic assessment of SEWGS technology when applied to integrated steel-plant for CO2 emission mitigation. <i>International Journal of Greenhouse Gas Control</i> , 2020, 94, 102935.	2.3	42
53	Heliostat aiming point optimization for external tower receiver. <i>Solar Energy</i> , 2017, 157, 1114-1129.	2.9	41
54	sCO ₂ power plants for waste heat recovery: design optimization and part-load operation strategies. <i>Applied Thermal Engineering</i> , 2021, 195, 117013.	3.0	40

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55	Comparison of Linear and Point Focus Collectors in Solar Power Plants. <i>Energy Procedia</i> , 2014, 49, 1491-1500.	1.8	39
56	Multi-objective investment optimization for energy system models in high temporal and spatial resolution. <i>Applied Energy</i> , 2020, 264, 114728.	5.1	38
57	Techno-economic Assessment of Membrane Reactor Technologies for Pure Hydrogen Production for Fuel Cell Vehicle Fleets. <i>Energy & Fuels</i> , 2013, 27, 4423-4431.	2.5	37
58	Thermal stability of n-pentane, cyclo-pentane and toluene as working fluids in organic Rankine engines. <i>Applied Thermal Engineering</i> , 2017, 121, 172-179.	3.0	37
59	Effect of passing clouds on the dynamic performance of a CSP tower receiver with molten salt heat storage. <i>Applied Energy</i> , 2018, 229, 224-235.	5.1	37
60	Geometric analysis of three-dimensional effects of parabolic trough collectors. <i>Solar Energy</i> , 2013, 88, 88-96.	2.9	36
61	CFD simulation of Pd-based membrane reformer when thermally coupled within a fuel cell micro-CHP system. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12668-12679.	3.8	35
62	Thermal and electric performances of roll-bond flat plate applied to conventional PV modules for heat recovery. <i>Applied Thermal Engineering</i> , 2016, 105, 304-313.	3.0	35
63	Development and experimental validation of a physical model for the soiling of mirrors for CSP industry applications. <i>Solar Energy</i> , 2018, 173, 1287-1305.	2.9	35
64	Integration of SEWGS for carbon capture in Natural Gas Combined Cycle. Part B: Reference case comparison. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 214-225.	2.3	34
65	Techno-economic assessment of two novel feeding systems for a dry-feed gasifier in an IGCC plant with Pd-membranes for CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2014, 25, 62-78.	2.3	34
66	Effect of sweep gas on hydrogen permeation of supported Pd membranes: Experimental and modeling. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4228-4239.	3.8	34
67	Techno-economic assessment of hydrogen selective membranes for CO ₂ capture in integrated gasification combined cycle. <i>International Journal of Greenhouse Gas Control</i> , 2014, 20, 293-309.	2.3	32
68	Technical assessment of a micro-cogeneration system based on polymer electrolyte membrane fuel cell and fluidized bed autothermal reformer. <i>Applied Energy</i> , 2016, 162, 231-244.	5.1	32
69	Non-thermal plasma-assisted capture and conversion of CO ₂ . <i>Chemical Engineering Journal</i> , 2021, 410, 128335.	6.6	31
70	A detailed MILP formulation for the optimal design of advanced biofuel supply chains. <i>Renewable Energy</i> , 2021, 171, 159-175.	4.3	31
71	Solar thermodynamic plants for cogenerative industrial applications in southern Europe. <i>Renewable Energy</i> , 2011, 36, 235-243.	4.3	30
72	Development of an innovative code for the design of thermodynamic solar power plants part B: Performance assessment of commercial and innovative technologies. <i>Renewable Energy</i> , 2011, 36, 2465-2473.	4.3	30

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73	Development and validation of a comprehensive dynamic mathematical model for hybrid PV/T solar collectors. <i>Applied Thermal Engineering</i> , 2018, 133, 543-554.	3.0	30
74	From investment optimization to fair benefit distribution in renewable energy community modelling. <i>Applied Energy</i> , 2022, 310, 118447.	5.1	30
75	Investigation of a 5ÅkW micro-CHP PEM fuel cell based system integrated with membrane reactor under diverse EU natural gas quality. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13988-14002.	3.8	29
76	Dinitrogen tetroxide and carbon dioxide mixtures as working fluids in solar tower plants. <i>Solar Energy</i> , 2019, 181, 203-213.	2.9	29
77	A Techno-economic comparison of micro-cogeneration systems based on polymer electrolyte membrane fuel cell for residential applications. <i>Applied Energy</i> , 2019, 239, 692-705.	5.1	28
78	Development and experimental validation of hierarchical energy management system based on stochastic model predictive control for Off-grid Microgrids. <i>Advances in Applied Energy</i> , 2021, 2, 100028.	6.6	27
79	Life Cycle Assessment and Economic Analysis of an Innovative Biogas Membrane Reformer for Hydrogen Production. <i>Processes</i> , 2019, 7, 86.	1.3	26
80	Energetic and economic optimization of the yearly performance of three different solar assisted heat pump systems using a mixed integer linear programming algorithm. <i>Energy Conversion and Management</i> , 2020, 206, 112446.	4.4	26
81	Thermal efficiency gains enabled by using CO ₂ mixtures in supercritical power cycles. <i>Energy</i> , 2022, 238, 121899.	4.5	26
82	Integration of SEWGS for carbon capture in natural gas combined cycle. Part A: Thermodynamic performances. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 200-213.	2.3	25
83	Performances of a micro-CHP system fed with bio-ethanol based on fluidized bed membrane reactor and PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9004-9021.	3.8	25
84	Experimental and analytical study of an innovative integrated dual-source evaporator for solar-assisted heat pumps. <i>Solar Energy</i> , 2019, 194, 939-951.	2.9	25
85	Advanced m-CHP fuel cell system based on a novel bio-ethanol fluidized bed membrane reformer. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13970-13987.	3.8	24
86	Optimization of cleaning strategies for heliostat fields in solar tower plants. <i>Solar Energy</i> , 2020, 204, 501-514.	2.9	24
87	Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: The Italian case study. <i>Energy</i> , 2018, 160, 33-43.	4.5	23
88	Multi-Objective Optimization Model EPLANopt for Energy Transition Analysis and Comparison with Climate-Change Scenarios. <i>Energies</i> , 2020, 13, 3255.	1.6	23
89	MILP and MINLP models for the optimal scheduling of multi-energy systems accounting for delivery temperature of units, topology and non-isothermal mixing. <i>Applied Thermal Engineering</i> , 2021, 184, 116161.	3.0	23
90	Cost Effective CO ₂ Reduction in the Iron & Steel Industry by Means of the SEWGS Technology: STEPWISE Project. <i>Energy Procedia</i> , 2017, 114, 6256-6265.	1.8	22

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91	Optimisation method to obtain marginal abatement cost-curve through EnergyPLAN software. Smart Energy, 2021, 1, 100002.	2.6	22
92	A two-step procedure for the selection of innovative high temperature heat transfer fluids in solar tower power plants. Renewable Energy, 2021, 177, 807-822.	4.3	22
93	Application of MCFCs for active CO ₂ capture within natural gas combined cycles. Energy Procedia, 2011, 4, 1235-1242.	1.8	21
94	Comparison of Different Strategies for Heliostats Aiming Point in Cavity and External Tower Receivers. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.1	21
95	Experimental and analytical procedure for the characterization of innovative working fluids for power plants applications. Applied Thermal Engineering, 2020, 178, 115513.	3.0	21
96	An alternative methodology to treat solar radiation data for the optical efficiency estimate of different types of collectors. Solar Energy, 2014, 110, 807-817.	2.9	20
97	Performance Assessment of Turbocharged Pem Fuel Cell Systems for Civil Aircraft Onboard Power Production. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	0.5	19
98	A Numerical Model for Off-Design Performance Prediction of Parabolic Trough Based Solar Power Plants. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.1	19
99	A comprehensive model of a fluidized bed membrane reactor for small-scale hydrogen production. Chemical Engineering and Processing: Process Intensification, 2018, 127, 136-144.	1.8	19
100	Optimization of a micro-CHP system based on polymer electrolyte membrane fuel cell and membrane reactor from economic and life cycle assessment point of view. Chemical Engineering and Processing: Process Intensification, 2018, 131, 70-83.	1.8	19
101	Membrane reformer PEM cogeneration systems for residential applications-Part B: techno-economic analysis and system layout. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 311-321.	0.8	18
102	Definition of validated membrane reactor model for 5ÂkW power output CHP system for different natural gas compositions. International Journal of Hydrogen Energy, 2016, 41, 19141-19153.	3.8	18
103	Comparison of Two Linear Collectors in Solar Thermal Plants: Parabolic Trough vs Fresnel. , 2011, , .		17
104	Development and experimental validation of a comprehensive thermoelectric dynamic model of photovoltaic modules. Solar Energy, 2017, 144, 489-501.	2.9	17
105	Techno-economic Comparison of Combined Cycle Gas Turbines with Advanced Membrane Configuration and Monoethanolamine Solvent at Part Load Conditions. Energy & Fuels, 2018, 32, 625-645.	2.5	17
106	Preliminary investigation of the influence of equations of state on the performance of CO ₂ + C ₆ F ₆ as innovative working fluid in transcritical cycles. Energy, 2022, 238, 121815.	4.5	17
107	Implementation of Different PV Forecast Approaches in a MultiGood MicroGrid: Modeling and Experimental Results. Processes, 2021, 9, 323.	1.3	16
108	Techno-economic assessment of the FReSMe technology for CO ₂ emissions mitigation and methanol production from steel plants. Journal of CO ₂ Utilization, 2022, 56, 101852.	3.3	16

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109	Technical Economic Evaluation of a System for Electricity Production With CO ₂ Capture Using a Membrane Reformer With Permeate Side Combustion. , 2006, , 89.		15
110	Membrane reformer PEM cogeneration systems for residential applications-Part A: full load and partial load simulation. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 301-310.	0.8	15
111	Application of Hydrogen Selective Membranes to IGCC. Energy Procedia, 2013, 37, 2274-2283.	1.8	15
112	Grid connection of MCFC applied to power plant with CO ₂ capture. International Journal of Electrical Power and Energy Systems, 2013, 53, 980-986.	3.3	15
113	Tiles as solar air heater to support a heat pump for residential air conditioning. Applied Thermal Engineering, 2016, 102, 1412-1421.	3.0	15
114	Adoption of the CO ₂ +SO ₂ mixture as working fluid for transcritical cycles: A thermodynamic assessment with optimized equation of state. Energy Conversion and Management, 2022, 255, 115263.	4.4	15
115	CAESAR: SEWGS integration into an IGCC plant. Energy Procedia, 2011, 4, 1096-1103.	1.8	14
116	On the measurement of solids circulation rates in interconnected fluidized beds: Comparison of different experimental techniques. Powder Technology, 2016, 302, 81-89.	2.1	14
117	Combined water desalination and electricity generation through a humidification-dehumidification process integrated with photovoltaic-thermal modules: Design, performance analysis and techno-economic assessment. Energy Conversion and Management: X, 2019, 1, 100004.	0.9	14
118	Modelling of an Existing Neutral Temperature District Heating Network: Detailed and Approximate Approaches. Energies, 2021, 14, 379.	1.6	14
119	CO ₂ Separation From Combined Cycles Using Molten Carbonate Fuel Cells. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	13
120	STEPWISE Project: Sorption-Enhanced Water-Gas Shift Technology to Reduce Carbon Footprint in the Iron and Steel Industry. Johnson Matthey Technology Review, 2018, 62, 395-402.	0.5	13
121	Sorption Enhanced Water Gas Shift for H ₂ production using sour gases as feedstock. International Journal of Hydrogen Energy, 2019, 44, 16132-16143.	3.8	13
122	Techno-economic assessment of blast furnace gas pre-combustion decarbonisation integrated with the power generation. Energy Conversion and Management, 2022, 255, 115252.	4.4	13
123	Application of Sorption Enhanced Water Gas Shift for Carbon Capture in Integrated Steelworks. Energy Procedia, 2013, 37, 7125-7133.	1.8	12
124	Life Cycle Assessment of SEWGS Technology Applied to Integrated Steel Plants. Sustainability, 2019, 11, 1825.	1.6	11
125	Modelling the soiling of heliostats: Assessment of the optical efficiency and impact of cleaning operations. AIP Conference Proceedings, 2019, , .	0.3	11
126	Carbon Dioxide Mixtures as Working Fluid for High-Temperature Heat Recovery: A Thermodynamic Comparison with Transcritical Organic Rankine Cycles. Energies, 2020, 13, 4014.	1.6	11

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127	Improving the traditional levelized cost of electricity approach by including the integration costs in the techno-economic evaluation of future photovoltaic plants. International Journal of Energy Research, 2021, 45, 9252-9269.	2.2	11
128	Experimental characterisation of CO ₂ +C ₆ F ₆ mixture: Thermal stability and vapour liquid equilibrium test for its application in transcritical power cycle. Applied Thermal Engineering, 2022, 212, 118520.	3.0	11
129	Solar hydrogen production with cerium oxides thermochemical cycle. AIP Conference Proceedings, 2017, , .	0.3	10
130	Off-design model of concentrating solar power plant with thermochemical energy storage based on calcium-looping. AIP Conference Proceedings, 2019, , .	0.3	10
131	Supply chain optimization and GHG emissions in biofuel production from forestry residues in Sweden. Renewable Energy, 2022, 196, 405-421.	4.3	10
132	ISIS Facchinetti: A Nearly Zero Energy Retrofit in Italy. Energy Procedia, 2014, 48, 1326-1335.	1.8	9
133	Cogeneration systems optimization: Comparison of multi-step and mixed integer linear programming approaches. International Journal of Green Energy, 2016, 13, 781-792.	2.1	9
134	Experimental investigation of PEM fuel cells for a m-CHP system with membrane reformer. International Journal of Hydrogen Energy, 2017, 42, 25334-25350.	3.8	9
135	A Multi-Step Optimization Approach to Distributed Cogeneration Systems With Heat Storage. , 2008, , .		8
136	Water Mixtures as Working Fluids in Organic Rankine Cycles. Energies, 2019, 12, 2629.	1.6	8
137	Techno-Economic Assessment in a Fluidized Bed Membrane Reactor for Small-Scale H ₂ Production: Effect of Membrane Support Thickness. Membranes, 2019, 9, 116.	1.4	8
138	Numerical and experimental testing of predictive EMS algorithms for PV-BESS residential microgrid. , 2019, , .		8
139	Outdoor Assessment and Performance Evaluation of OPV Modules. IEEE Journal of Photovoltaics, 2021, 11, 391-399.	1.5	8
140	An Innovative Tunable Rule-Based Strategy for the Predictive Management of Hybrid Microgrids. Electronics (Switzerland), 2021, 10, 1162.	1.8	8
141	Numerical analysis of different designs of roll-bond absorber on PV/T module and performance assessment. Applied Thermal Engineering, 2021, 192, 116873.	3.0	8
142	Off-design performance of CSP plant based on supercritical CO ₂ cycles. AIP Conference Proceedings, 2020, , .	0.3	8
143	Co-production of hydrogen and electricity from autothermal reforming of natural gas by means of Pd-Ag membranes. Energy Procedia, 2009, 1, 319-326.	1.8	7
144	Economic and environmental impact of photovoltaic and wind energy high penetration towards the achievement of the Italian 20-20-20 targets. , 2015, , .		7

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145	New Approach to Techno-economic Assessment of Power Plants with Carbon Capture and Storage: The Inclusion of Realistic Dispatch Profiles To Calculate Techno-economics of Part Load Operations. Energy & Fuels, 2017, 31, 1047-1049.	2.5	7
146	Analyses of Electrification and Battery Ageing Processes in a Real Offgrid Hybrid Microgrid. , 2019, , .		7
147	Sectorial reflectance-based cleaning policy of heliostats for Solar Tower power plants. Renewable Energy, 2020, 166, 176-189.	4.3	7
148	Optimal Allocation Method for a Fair Distribution of the Benefits in an Energy Community. Solar Rrl, 2022, 6, 2100473.	3.1	7
149	Outdoor Performance of Organic Photovoltaics: Comparative Analysis. Energies, 2022, 15, 1620.	1.6	7
150	Simulation Comparison of PEMFC Micro-Cogeneration Units With Conventional and Innovative Fuel Processing. , 2010, , .		6
151	Innovative Process Cycle with Zeolite (MS13X) for Post Combustion Adsorption. Energy Procedia, 2017, 114, 2211-2218.	1.8	6
152	Evaluation of reflectance measurement techniques for artificially soiled solar reflectors: Experimental campaign and model assessment. Solar Energy Materials and Solar Cells, 2021, 231, 111321.	3.0	6
153	Costs of utility-scale photovoltaic systems integration in the future Italian energy scenarios. Progress in Photovoltaics: Research and Applications, 2021, 29, 786-801.	4.4	6
154	Modeling On/Off-Design Performance of Solar Tower Plants Using Saturated Steam. , 2010, , .		5
155	SCARABEUS: Supercritical carbon dioxide/alternative fluid blends for efficiency upgrade of solar power plants. AIP Conference Proceedings, 2020, , .	0.3	5
156	Techno-economic analysis of CSP incorporating sCO2 brayton power cycles: Trade-off between cost and performance. AIP Conference Proceedings, 2022, , .	0.3	5
157	Dynamic thermal analysis of an external cylindrical receiver in an object-oriented modelling paradigm. AIP Conference Proceedings, 2022, , .	0.3	5
158	Butadiene production in membrane reactors: A techno-economic analysis. International Journal of Hydrogen Energy, 2022, 47, 21375-21390.	3.8	5
159	Impact of Cell Microcracks Size and Spatial Distribution on Output Power of PV Modules. , 2018, , .		4
160	Optimization of PEM Fuel Cell Operation with High-purity Hydrogen Produced by a Membrane Reactor. Fuel Cells, 2018, 18, 335-346.	1.5	4
161	Adoption of CO2 blended with C6F6 as working fluid in CSP plants. AIP Conference Proceedings, 2022, , .	0.3	4
162	Development of an Innovative Code for the Design of Different Parabolic Trough Solar Fields. , 2009, , .		3

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163	Part-Load Strategy Definition and Preliminary Annual Simulation for Small Size sCO ₂ -Based Pulverized Coal Power Plant. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	0.5	3
164	Monitoring and aggregate modelling of an existing neutral temperature district heating network. <i>Energy Reports</i> , 2021, 7, 140-149.	2.5	3
165	Comparison of Detailed and Simplified Optimization Approaches for the Performance Simulation of Cogeneration Plants. , 2009, , .		2
166	Economic analysis of systems for electrical energy and hydrogen production: fundamentals and application to two membrane reactor processes. , 2013, , 528-550.		2
167	The use of membranes in oxygen and hydrogen separation in integrated gasification combined cycle (IGCC) power plants. , 2015, , 367-396.		2
168	Using palladium membranes for carbon capture in integrated gasification combined cycle (IGCC) power plants. , 2015, , 221-246.		2
169	Process Intensification in Fuel Cell CHP Systems, the ReforCELL Project. <i>Processes</i> , 2016, 4, 37.	1.3	2
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