Giampaolo Manzolini

List of Publications by Year
in descending order

186	6,734	57631 44	79541 73
papers	citations	h-index	g-index

188	188	188	5386
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal efficiency gains enabled by using CO2 mixtures in supercritical power cycles. Energy, 2022, 238, 121899.	4.5	26
2	Preliminary investigation of the influence of equations of state on the performance of CO2Â+ C6F6 as innovative working fluid in transcritical cycles. Energy, 2022, 238, 121815.	4.5	17
3	Optimal Allocation Method for a Fair Distribution of the Benefits in an Energy Community. Solar Rrl, 2022, 6, 2100473.	3.1	7
4	Techno-economic assessment of the FReSMe technology for CO2 emissions mitigation and methanol production from steel plants. Journal of CO2 Utilization, 2022, 56, 101852.	3.3	16
5	From investment optimization to fair benefit distribution in renewable energy community modelling. Applied Energy, 2022, 310, 118447.	5.1	30
6	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
7	Adoption of the CO2Â+ÂSO2 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
8	Outdoor Performance of Organic Photovoltaics: Comparative Analysis. Energies, 2022, 15, 1620.	1.6	7
9	Experimental characterisation of CO2Â+ÂC6F6 mixture: Thermal stability and vapour liquid equilibrium test for its application in transcritical power cycle. Applied Thermal Engineering, 2022, 212, 118520.	3.0	11
10	Bi-objective optimization of sectorial cleaning policy for the solar fields of concentrating solar tower plants. AIP Conference Proceedings, 2022, , .	0.3	0
11	Techno-economic analysis of CSP incorporating sCO2 brayton power cycles: Trade-off between cost and performance. AIP Conference Proceedings, 2022, , .	0.3	5
12	Dynamic thermal analysis of an external cylindrical receiver in an object-oriented modelling paradigm. AIP Conference Proceedings, 2022, , .	0.3	5
13	Adoption of CO2 blended with C6F6 as working fluid in CSP plants. AIP Conference Proceedings, 2022, , .	0.3	4
14	Butadiene production in membrane reactors: A techno-economic analysis. International Journal of Hydrogen Energy, 2022, 47, 21375-21390.	3.8	5
15	Supply chain optimization and GHG emissions in biofuel production from forestry residues in Sweden. Renewable Energy, 2022, 196, 405-421.	4.3	10
16	MILP and MINLP models for the optimal scheduling of multi-energy systems accounting for delivery temperature of units, topology and non-isothermal mixing. Applied Thermal Engineering, 2021, 184, 116161.	3.0	23
17	Renewable Energy Communities: Business Models of Multi-family Housing Buildings. Green Energy and Technology, 2021, , 261-276.	0.4	1
18	Implementation of Different PV Forecast Approaches in a MultiGood MicroGrid: Modeling and Experimental Results. Processes, 2021, 9, 323.	1.3	16

#	Article	IF	Citations
19	Improving the traditional levelized cost of electricity approach by including the integration costs in the <scp>techno‐economic</scp> evaluation of future photovoltaic plants. International Journal of Energy Research, 2021, 45, 9252-9269.	2.2	11
20	Optimisation method to obtain marginal abatement cost-curve through EnergyPLAN software. Smart Energy, 2021, 1, 100002.	2.6	22
21	Outdoor Assessment and Performance Evaluation of OPV Modules. IEEE Journal of Photovoltaics, 2021, 11, 391-399.	1.5	8
22	Non-thermal plasma-assisted capture and conversion of CO2. Chemical Engineering Journal, 2021, 410, 128335.	6.6	31
23	An Innovative Tunable Rule-Based Strategy for the Predictive Management of Hybrid Microgrids. Electronics (Switzerland), 2021, 10, 1162.	1.8	8
24	Development and experimental validation of hierarchical energy management system based on stochastic model predictive control for Off-grid Microgrids. Advances in Applied Energy, 2021, 2, 100028.	6.6	27
25	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
26	A detailed MILP formulation for the optimal design of advanced biofuel supply chains. Renewable Energy, 2021, 171, 159-175.	4.3	31
27	sCO2 power plants for waste heat recovery: design optimization and part-load operation strategies. Applied Thermal Engineering, 2021, 195, 117013.	3.0	40
28	Part-Load Strategy Definition and Preliminary Annual Simulation for Small Size sCO2-Based Pulverized Coal Power Plant. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	3
29	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
30	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
31	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
32	Modelling of an Existing Neutral Temperature District Heating Network: Detailed and Approximate Approaches. Energies, 2021, 14, 379.	1.6	14
33	Investigation of CO2 mixtures to overcome the limits of sCO2 cycles. E3S Web of Conferences, 2021, 312, 08010.	0.2	0
34	Monitoring and aggregate modelling of an existing neutral temperature district heating network. Energy Reports, 2021, 7, 140-149.	2.5	3
35	Energetic and economic optimization of the yearly performance of three different solar assisted heat pump systems using a mixed integer linear programming algorithm. Energy Conversion and Management, 2020, 206, 112446.	4.4	26
36	An efficient robust optimization model for the unit commitment and dispatch of multi-energy systems and microgrids. Applied Energy, 2020, 261, 113859.	5.1	99

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37	Techno-economic assessment of SEWGS technology when applied to integrated steel-plant for CO2 emission mitigation. International Journal of Greenhouse Gas Control, 2020, 94, 102935.	2.3	42
38	A MILP Model for the Operational Planning of Multi-Energy Systems Accounting for variable Delivery/Return Temperatures and Non-Isothermal Mixing in Headers. Computer Aided Chemical Engineering, 2020, , 1501-1506.	0.3	0
39	A Robust Rolling-Horizon Algorithm for the Optimal Operation of Multi-energy Systems with Yearly Constraints and Seasonal Storage. Computer Aided Chemical Engineering, 2020, 48, 1513-1518.	0.3	1
40	Multi-Objective Optimization Model EPLANopt for Energy Transition Analysis and Comparison with Climate-Change Scenarios. Energies, 2020, 13, 3255.	1.6	23
41	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
42	Experimental and analytical procedure for the characterization of innovative working fluids for power plants applications. Applied Thermal Engineering, 2020, 178, 115513.	3.0	21
43	Classification and challenges of bottom-up energy system models - A review. Renewable and Sustainable Energy Reviews, 2020, 129, 109917.	8.2	167
44	Multi-objective investment optimization for energy system models in high temporal and spatial resolution. Applied Energy, 2020, 264, 114728.	5.1	38
45	Sectorial reflectance-based cleaning policy of heliostats for Solar Tower power plants. Renewable Energy, 2020, 166, 176-189.	4.3	7
46	Optimization of cleaning strategies for heliostat fields in solar tower plants. Solar Energy, 2020, 204, 501-514.	2.9	24
47	SCARABEUS: Supercritical carbon dioxide/alternative fluid blends for efficiency upgrade of solar power plants. AIP Conference Proceedings, 2020, , .	0.3	5
48	Off-design performance of CSP plant based on supercritical CO2 cycles. AIP Conference Proceedings, 2020, , .	0.3	8
49	Object-oriented modelling of an external receiver for solar tower application: Dynamic simulation and impact of soiling. AIP Conference Proceedings, 2020, , .	0.3	2
50	Water Mixtures as Working Fluids in Organic Rankine Cycles. Energies, 2019, 12, 2629.	1.6	8
51	Life Cycle Assessment of SEWGS Technology Applied to Integrated Steel Plants. Sustainability, 2019, 11, 1825.	1.6	11
52	Application of Membrane Reactor and PEMFCâ€based Microâ€CHP System in Offâ€grid Applications. Fuel Cells, 2019, 19, 244-255.	1.5	1
53	Effect of sweep gas on hydrogen permeation of supported Pd membranes: Experimental and modeling. International Journal of Hydrogen Energy, 2019, 44, 4228-4239.	3.8	34
54	Off-design model of concentrating solar power plant with thermochemical energy storage based on calcium-looping. AIP Conference Proceedings, 2019, , .	0.3	10

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55	Modelling the soiling of heliostats: Assessment of the optical efficiency and impact of cleaning operations. AIP Conference Proceedings, 2019, , .	0.3	11
56	Analyses of Electrification and Battery Ageing Processes in a Real Offgrid Hybrid Microgrid. , 2019, , .		7
57	Techno-Economic Assessment in a Fluidized Bed Membrane Reactor for Small-Scale H2 Production: Effect of Membrane Support Thickness. Membranes, 2019, 9, 116.	1.4	8
58	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
59	Assessing the impact of a two-layer predictive dispatch algorithm on design and operation of off-grid hybrid microgrids. Renewable Energy, 2019, 143, 1439-1453.	4.3	59
60	Sorption Enhanced Water Gas Shift for H2 production using sour gases as feedstock. International Journal of Hydrogen Energy, 2019, 44, 16132-16143.	3.8	13
61	Experimental and modelling study of an electrochemical hydrogen compressor. Chemical Engineering Journal, 2019, 369, 432-442.	6.6	66
62	Life Cycle Assessment and Economic Analysis of an Innovative Biogas Membrane Reformer for Hydrogen Production. Processes, 2019, 7, 86.	1.3	26
63	A Techno-economic comparison of micro-cogeneration systems based on polymer electrolyte membrane fuel cell for residential applications. Applied Energy, 2019, 239, 692-705.	5.1	28
64	CO2 mixtures as innovative working fluid in power cycles applied to solar plants. Techno-economic assessment. Solar Energy, 2019, 181, 530-544.	2.9	60
65	Dinitrogen tetroxide and carbon dioxide mixtures as working fluids in solar tower plants. Solar Energy, 2019, 181, 203-213.	2.9	29
66	Experimental and analytical study of an innovative integrated dual-source evaporator for solar-assisted heat pumps. Solar Energy, 2019, 194, 939-951.	2.9	25
67	Numerical and experimental testing of predictive EMS algorithms for PV-BESS residential microgrid. , 2019, , .		8
68	Transition pathways optimization methodology through EnergyPLAN software for long-term energy planning. Applied Energy, 2019, 235, 356-368.	5.1	94
69	A design and dispatch optimization algorithm based on mixed integer linear programming for rural electrification. Applied Energy, 2019, 233-234, 1104-1121.	5.1	74
70	A rolling-horizon optimization algorithm for the long term operational scheduling of cogeneration systems. Energy, 2019, 184, 73-90.	4.5	44
71	Development and validation of a comprehensive dynamic mathematical model for hybrid PV/T solar collectors. Applied Thermal Engineering, 2018, 133, 543-554.	3.0	30
72	Multi-objective optimization algorithm coupled to EnergyPLAN software: The EPLANopt model. Energy, 2018, 149, 213-221.	4.5	89

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73	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
74	Potentiality of a biogas membrane reformer for decentralized hydrogen production. Chemical Engineering and Processing: Process Intensification, 2018, 129, 131-141.	1.8	49
75	Comparison of sodium and KCl-MgCl2 as heat transfer fluids in CSP solar tower with sCO2 power cycles. Solar Energy, 2018, 162, 510-524.	2.9	66
76	Soiling of solar collectors â€“ Modelling approaches for airborne dust and its interactions with surfaces. Renewable and Sustainable Energy Reviews, 2018, 81, 2343-2357.	8.2	74
77	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
78	Innovative fluids for gas power cycles coupled with solar tower systems. AIP Conference Proceedings, 2018, , .	0.3	2
79	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
80	Assessment of different control strategies to manage cloud-induced transients in central receiver systems using molten salts. AIP Conference Proceedings, 2018, , .	0.3	2
81	Impact of Cell Microcracks Size and Spatial Distribution on Output Power of PV Modules. , 2018, , .		4
82	Development and experimental validation of a physical model for the soiling of mirrors for CSP industry applications. Solar Energy, 2018, 173, 1287-1305.	2.9	35
83	Optimization of PEM Fuel Cell Operation with Highâ€purity Hydrogen Produced by a Membrane Reactor. Fuel Cells, 2018, 18, 335-346.	1.5	4
84	Incorporating combined cycle gas turbine flexibility constraints and additional costs into the EPLANopt model: The Italian case study. Energy, 2018, 160, 33-43.	4.5	23
85	Green Hydrogen Production from Raw Biogas: A Techno-Economic Investigation of Conventional Processes Using Pressure Swing Adsorption Unit. Processes, 2018, 6, 19.	1.3	71
86	On concentration polarisation in a fluidized bed membrane reactor for biogas steam reforming: Modelling and experimental validation. Chemical Engineering Journal, 2018, 348, 232-243.	6.6	44
87	A comprehensive modeling of the hybrid temperature electric swing adsorption process for CO2 capture. International Journal of Greenhouse Gas Control, 2018, 74, 155-173.	2.3	45
88	Effect of passing clouds on the dynamic performance of a CSP tower receiver with molten salt heat storage. Applied Energy, 2018, 229, 224-235.	5.1	37
89	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
90	Experimental Performance Evaluation of PV/T Panels at Negative Reduced Temperatures. , 2018, , .		1

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91	Heliostat aiming point optimization for external tower receiver. Solar Energy, 2017, 157, 1114-1129.	2.9	41
92	Development and experimental validation of a comprehensive thermoelectric dynamic model of photovoltaic modules. Solar Energy, 2017, 144, 489-501.	2.9	17
93	Advanced m-CHP fuel cell system based on a novel bio-ethanol fluidized bed membrane reformer. International Journal of Hydrogen Energy, 2017, 42, 13970-13987.	3.8	24
94	Investigation of a 5ÂkW micro-CHP PEM fuel cell based system integrated with membrane reactor under diverse EU natural gas quality. International Journal of Hydrogen Energy, 2017, 42, 13988-14002.	3.8	29
95	Thermal stability of n -pentane, cyclo-pentane and toluene as working fluids in organic Rankine engines. Applied Thermal Engineering, 2017, 121, 172-179.	3.0	37
96	Physical and hybrid methods comparison for the day ahead PV output power forecast. Renewable Energy, 2017, 113, 11-21.	4.3	150
97	Achievements of European projects on membrane reactor for hydrogen production. Journal of Cleaner Production, 2017, 161, 1442-1450.	4.6	44
98	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
99	Cost Effective CO2 Reduction in the Iron & Steel Industry by Means of the SEWGS Technology: STEPWISE Project. Energy Procedia, 2017, 114, 6256-6265.	1.8	22
100	Dynamic analysis of off-grid systems with ORC plants adopting various solution for the thermal storage. Energy Procedia, 2017, 129, 216-223.	1.8	1
101	Solar hydrogen production with cerium oxides thermochemical cycle. AIP Conference Proceedings, 2017, , .	0.3	10
102	Innovative Process Cycle with Zeolite (MS13X) for Post Combustion Adsorption. Energy Procedia, 2017, 114, 2211-2218.	1.8	6
103	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
104	Preliminary Assessment of sCO 2 Power Cycles for Application to CSP Solar Tower Plants. Energy Procedia, 2017, 105, 1116-1122.	1.8	42
105	Preliminary assessment of sCO2 cycles for power generation in CSP solar tower plants. Applied Energy, 2017, 204, 1007-1017.	5.1	126
106	Process Intensification in Fuel Cell CHP Systems, the ReforCELL Project. Processes, 2016, 4, 37.	1.3	2
107	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
108	Snail Trails and Cell Microcrack Impact on PV Module Maximum Power and Energy Production. IEEE Journal of Photovoltaics, 2016, 6, 1269-1277.	1.5	72

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109	Tiles as solar air heater to support a heat pump for residential air conditioning. Applied Thermal Engineering, 2016, 102, 1412-1421.	3.0	15
110	HFOs as substitute for R-134a as working fluids in ORC power plants: A thermodynamic assessment and thermal stability analysis. Applied Thermal Engineering, 2016, 103, 790-797.	3.0	60
111	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
112	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
113	Performances of a micro-CHP system fed with bio-ethanol based on fluidized bed membrane reactor and PEM fuel cells. International Journal of Hydrogen Energy, 2016, 41, 9004-9021.	3.8	25
114	Thermal and electric performances of roll-bond flat plate applied to conventional PV modules for heat recovery. Applied Thermal Engineering, 2016, 105, 304-313.	3.0	35
115	Technical assessment of a micro-cogeneration system based on polymer electrolyte membrane fuel cell and fluidized bed autothermal reformer. Applied Energy, 2016, 162, 231-244.	5.1	32
116	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
117	Economic and environmental impact of photovoltaic and wind energy high penetration towards the achievement of the Italian 20-20-20 targets. , 2015, , .		7
118	The use of membranes in oxygen and hydrogen separation in integrated gasification combined cycle (IGCC) power plants. , 2015, , 367-396.		2
119	Pre-combustion CO2 capture. International Journal of Greenhouse Gas Control, 2015, 40, 167-187.	2.3	253
120	Using palladium membrane-based fuel reformers for combined heat and power (CHP) plants. , 2015, , 319-344.		0
121	Comparison of different physical models for PV power output prediction. Solar Energy, 2015, 119, 83-99.	2.9	268
122	Economic assessment of novel amine based CO2 capture technologies integrated in power plants based on European Benchmarking Task Force methodology. Applied Energy, 2015, 138, 546-558.	5.1	94
123	CO2 capture in integrated steelworks by commercial-ready technologies and SEWGS process. International Journal of Greenhouse Gas Control, 2015, 41, 249-267.	2.3	51
124	Using palladium membranes for carbon capture in integrated gasification combined cycle (IGCC) power plants. , 2015, , 221-246.		2
125	Fixed bed membrane reactor for hydrogen production from steam methane reforming: Experimental and modeling approach. International Journal of Hydrogen Energy, 2015, 40, 7559-7567.	3.8	49
126	Tri-Generation Systems Optimization: Comparison of Heuristic and Mixed Integer Linear Programming Approaches. , 2014, , .		1

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127	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
128	ISIS Facchinetti: A Nearly Zero Energy Retrofit in Italy. Energy Procedia, 2014, 48, 1326-1335.	1.8	9
129	Economic analysis of CO2 capture from natural gas combined cycles using Molten Carbonate Fuel Cells. Applied Energy, 2014, 130, 562-573.	5.1	115
130	Techno-economic assessment of two novel feeding systems for a dry-feed gasifier in an IGCC plant with Pd-membranes for CO2 capture. International Journal of Greenhouse Gas Control, 2014, 25, 62-78.	2.3	34
131	Techno-economic assessment of hydrogen selective membranes for CO2 capture in integrated gasification combined cycle. International Journal of Greenhouse Gas Control, 2014, 20, 293-309.	2.3	32
132	Investigation on Performance Decay on Photovoltaic Modules: Snail Trails and Cell Microcracks. IEEE Journal of Photovoltaics, 2014, 4, 1204-1211.	1.5	67
133	A detailed MILP optimization model for combined cooling, heat and power system operation planning. Energy, 2014, 74, 12-26.	4.5	221
134	Thermodynamic assessment of amine based CO2 capture technologies in power plants based on European Benchmarking Task Force methodology. Fuel, 2014, 129, 318-329.	3.4	111
135	Comparison of Thermocline Molten Salt Storage Performances to Commercial Two-tank Configuration. Energy Procedia, 2014, 49, 694-704.	1.8	67
136	Comparison of Linear and Point Focus Collectors in Solar Power Plants. Energy Procedia, 2014, 49, 1491-1500.	1.8	39
137	Techno-economic Assessment of Membrane Reactor Technologies for Pure Hydrogen Production for Fuel Cell Vehicle Fleets. Energy & Fuels, 2013, 27, 4423-4431.	2.5	37
138	Comparison of Two Linear Collectors in Solar Thermal Plants: Parabolic Trough Versus Fresnel. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	68
139	Experimental study of steam methane reforming in a Pd-based fluidized bed membrane reactor. Chemical Engineering Journal, 2013, 222, 307-320.	6.6	69
140	Application of Hydrogen Selective Membranes to IGCC. Energy Procedia, 2013, 37, 2274-2283.	1.8	15
141	CO2 capture in natural gas combined cycle with SEWGS. Part B: Economic assessment. International Journal of Greenhouse Gas Control, 2013, 12, 502-509.	2.3	51
142	Application of Sorption Enhanced Water Gas Shift for Carbon Capture in Integrated Steelworks. Energy Procedia, 2013, 37, 7125-7133.	1.8	12
143	SEWGS Technology is Now Ready for Scale-up!. Energy Procedia, 2013, 37, 2265-2273.	1.8	51
144	Computational fluid dynamics (CFD) analysis of membrane reactors: simulation of a palladium-based membrane reactor in fuel cell micro-cogenerator system. , 2013, , 496-531.		1

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145	Grid connection of MCFC applied to power plant with CO2 capture. International Journal of Electrical Power and Energy Systems, 2013, 53, 980-986.	3.3	15
146	Geometric analysis of three-dimensional effects of parabolic trough collectors. Solar Energy, 2013, 88, 88-96.	2.9	36
147	Experimental investigation of partial shading scenarios on PV (photovoltaic) modules. Energy, 2013, 55, 466-475.	4.5	184
148	CO2 capture in natural gas combined cycle with SEWGS. Part A: Thermodynamic performances. International Journal of Greenhouse Gas Control, 2013, 12, 493-501.	2.3	43
149	Using MCFC for high efficiency CO2 capture from natural gas combined cycles: Comparison of internal and external reforming. Applied Energy, 2013, 112, 772-783.	5.1	65
150	Reduced order modeling of the Shellâ€“Prenflo entrained flow gasifier. Fuel, 2013, 104, 822-837.	3.4	61
151	CO2 capture in Integrated Gasification Combined Cycle with SEWGS â€“ Part B: Economic assessment. Fuel, 2013, 105, 220-227.	3.4	59
152	CO2 capture in integrated gasification combined cycle with SEWGS â€“ Part A: Thermodynamic performances. Fuel, 2013, 105, 206-219.	3.4	110
153	Economic analysis of systems for electrical energy and hydrogen production: fundamentals and application to two membrane reactor processes. , 2013, , 528-550.		2
154	CO2 Separation From Combined Cycles Using Molten Carbonate Fuel Cells. Journal of Fuel Cell Science and Technology, 2012, 9, .	0.8	13
155	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
156	Comparison of different solar plants based on parabolic trough technology. Solar Energy, 2012, 86, 1208-1221.	2.9	139
157	CO2 cryogenic separation from combined cycles integrated with molten carbonate fuel cells. International Journal of Hydrogen Energy, 2011, 36, 10355-10365.	3.8	105
158	Comparison between fixed bed and fluidized bed membrane reactor configurations for PEM based micro-cogeneration systems. Chemical Engineering Journal, 2011, 171, 1415-1427.	6.6	44
159	CAESAR: SEWGS integration into an IGCC plant. Energy Procedia, 2011, 4, 1096-1103.	1.8	14
160	Application of MCFCs for active CO2 capture within natural gas combined cycles. Energy Procedia, 2011, 4, 1235-1242.	1.8	21
161	Integration of SEWGS for carbon capture in natural gas combined cycle. Part A: Thermodynamic performances. International Journal of Greenhouse Gas Control, 2011, 5, 200-213.	2.3	25
162	Integration of SEWGS for carbon capture in Natural Gas Combined Cycle. Part B: Reference case comparison. International Journal of Greenhouse Gas Control, 2011, 5, 214-225.	2.3	34

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163	Methane steam reforming in a Pdâ€“Ag membrane reformer: An experimental study on reaction pressure influence at middle temperature. International Journal of Hydrogen Energy, 2011, 36, 1531-1539.	3.8	74
164	Solar thermodynamic plants for cogenerative industrial applications in southern Europe. Renewable Energy, 2011, 36, 235-243.	4.3	30
165	Development of an innovative code for the design of thermodynamic solar power plants part A: Code description and test case. Renewable Energy, 2011, 36, 1993-2003.	4.3	56
166	Development of an innovative code for the design of thermodynamic solar power plants part B: Performance assessment of commercial and innovative technologies. Renewable Energy, 2011, 36, 2465-2473.	4.3	30
167	CO2 Separation From Combined Cycles Using Molten Carbonate Fuel Cells. , 2011, , .		0
168	Comparison of Two Linear Collectors in Solar Thermal Plants: Parabolic Trough vs Fresnel. , 2011, , .		17
169	Simulation Comparison of PEMFC Micro-Cogeneration Units With Conventional and Innovative Fuel Processing. , 2010, , .		6
170	A Numerical Model for Off-Design Performance Calculation of Parabolic Trough Based Solar Power Plants. , 2010, , .		1
171	Modeling On/Off-Design Performance of Solar Tower Plants Using Saturated Steam. , 2010, , .		5
172	CO2 capture from combined cycles integrated with Molten Carbonate Fuel Cells. International Journal of Greenhouse Gas Control, 2010, 4, 441-451.	2.3	139
173	H2 production by low pressure methane steam reforming in a Pdâ€“Ag membrane reactor over a Ni-based catalyst: Experimental and modeling. International Journal of Hydrogen Energy, 2010, 35, 11514-11524.	3.8	90
174	CFD simulation of Pd-based membrane reformer when thermally coupled within a fuel cell micro-CHP system. International Journal of Hydrogen Energy, 2010, 35, 12668-12679.	3.8	35
175	Development of an Innovative Code for the Design of Different Parabolic Trough Solar Fields. , 2009, , .		3
176	Energy analysis of electric vehicles using batteries or fuel cells through well-to-wheel driving cycle simulations. Journal of Power Sources, 2009, 186, 464-477.	4.0	252
177	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
178	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
179	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
180	Comparison of Detailed and Simplified Optimization Approaches for the Performance Simulation of Cogeneration Plants. , 2009, , .		2

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181	Innovative membrane reformer for hydrogen production applied to PEM micro-cogeneration: Simulation model and thermodynamic analysis. International Journal of Hydrogen Energy, 2008, 33, 1361-1373.	3.8	47
182	Hydrogen production from ethanol steam reforming: energy efficiency analysis of traditional and membrane processes. International Journal of Hydrogen Energy, 2008, 33, 5571-5582.	3.8	61
183	A Multi-Step Optimization Approach to Distributed Cogeneration Systems With Heat Storage. , 2008, , .		8
184	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
185	Performance Assessment of Turbocharged PEM Fuel Cell Systems for Civil Aircraft Onboard Power Production. , 2007, , 291.		1
186	Technical Economic Evaluation of a System for Electricity Production With CO2 Capture Using a Membrane Reformer With Permeate Side Combustion. , 2006, , 89.		15