Umberto Desideri

List of Publications by Year
in descending order

221 papers	6,229 citations	66250 44 h-index	116156 66 g-index
241 all docs	241 docs citations	241 times ranked	6620 citing authors

#	Article	IF	Citations
1	Techno-economic analysis of hydrogen production from PV plants. E3S Web of Conferences, 2022, 334, 01001.	0.2	5
2	Study of an integrated gas turbine -Molten carbonate fuel cell-organic Rankine cycle system with CO2 recovery. Applied Energy, 2022, 323, 119620.	5.1	7
3	Impact of wind speed distribution and management strategy on hydrogen production from wind energy. Energy, 2022, 256, 124636.	4.5	14
4	Energy storage for grid-scale applications: Technology review and economic feasibility analysis. Renewable Energy, 2021, 163, 1754-1772.	4.3	70
5	Multi-objective optimization of CCHP system with hybrid chiller under new electric load following operation strategy. Energy, 2021, 219, 119574.	4.5	56
6	Perspectives and state of the art in producing solar fuels and chemicals from CO2. , 2021, , 181-219.		4
7	Performance analysis of a Brayton Pumped Thermal Electricity Storage (PTES) with a liquid sensible heat storage. E3S Web of Conferences, 2021, 238, 10007.	0.2	1
8	Techno-economic comparison of 100% renewable urea production processes. Applied Energy, 2021, 284, 116401.	5.1	24
9	Enabling low-voltage, peer-to-peer, quasi-real-time electricity markets through consortium blockchains. Applied Energy, 2021, 288, 116365.	5.1	20
10	A techno-economic assessment on the adoption of latent heat thermal energy storage systems for district cooling optimal dispatch & operations. Applied Energy, 2021, 289, 116646.	5.1	33
11	Off-Design of a Pumped Thermal Energy Storage Based on Closed Brayton Cycles. , 2021, , .		1
12	Multi-objective optimization of a proposed multi-generation cycle based on Pareto diagrams: Performance improvement, cost reduction, and CO2 emissions. Sustainable Energy Technologies and Assessments, 2021, 45, 101197.	1.7	6
13	Hybridization of an internal combustion engine with a molten carbonate fuel cell for marine applications. Applied Energy, 2021, 298, 117192.	5.1	19
14	Off-Design of a Pumped Thermal Energy Storage Based On Closed Brayton Cycles. Journal of Engineering for Gas Turbines and Power, 2021, , .	0.5	1
15	The adoption of a planning tool software platform for optimized polygeneration design and operation â€“ A district cooling application in South-East Asia. Applied Thermal Engineering, 2021, 199, 117532.	3.0	4
16	Study on the capacity-operation collaborative optimization for multi-source complementary cogeneration system. Energy Conversion and Management, 2021, 250, 114920.	4.4	15
17	Techno-economic assessment of an industrial carbon capture hub sharing a cement rotary kiln as sorbent regenerator. International Journal of Greenhouse Gas Control, 2021, 112, 103524.	2.3	16
18	Techno-economic optimization of biomass-to-methanol with solid-oxide electrolyzer. Applied Energy, 2020, 258, 114071.	5.1	61

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19	Woodchip size effect on combustion temperatures and volatiles in a small-scale fixed bed biomass boiler. Renewable Energy, 2020, 151, 161-174.	4.3	16
20	Design of a combined power, heating and cooling system at sized and undersized configurations for a reference building: Technoeconomic and topological considerations in Iran and Italy. Applied Energy, 2020, 258, 114105.	5.1	12
21	Techno-economic comparison of green ammonia production processes. Applied Energy, 2020, 259, 114135.	5.1	173
22	Life Cycle Assessment of Synthetic Natural Gas Production from Different CO2 Sources: A Cradle-to-Gate Study. Energies, 2020, 13, 4579.	1.6	11
23	Rankine Carnot Batteries with the Integration of Thermal Energy Sources: A Review. Energies, 2020, 13, 4766.	1.6	47
24	Use of Pressure-Retarded-Osmosis to reduce Reverse Osmosis energy consumption by exploiting hypersaline flows. Energy, 2020, 211, 118969.	4.5	15
25	Modeling and optimization of an ocean thermal energy conversion system for remote islands electrification. Renewable Energy, 2020, 162, 1399-1414.	4.3	32
26	Requirements for Integrated Planning of Multi-Energy Systems. , 2020, , .		5
27	Impact of ambient temperature on the effectiveness of inlet air cooling in a co-digestion biogas plant equipped with a mGT. Energy Conversion and Management, 2020, 216, 112874.	4.4	10
28	Multi-criteria investigation of a pumped thermal electricity storage (PTES) system with thermal integration and sensible heat storage. Energy Conversion and Management, 2020, 208, 112530.	4.4	66
29	Techno-economic optimization of power-to-methanol with co-electrolysis of CO2 and H2O in solid-oxide electrolyzers. Energy, 2020, 199, 117498.	4.5	45
30	Multi-Criteria Economic Analysis of a Pumped Thermal Electricity Storage (PTES) With Thermal Integration. Frontiers in Energy Research, 2020, 8, .	1.2	32
31	4E analysis of a modified multigeneration system designed for power, heating/cooling, and water desalination. Applied Energy, 2020, 270, 115107.	5.1	62
32	Techno-economic evaluation of biomass-to-fuels with solid-oxide electrolyzer. Applied Energy, 2020, 270, 115113.	5.1	44
33	Impact of Forecast Uncertainty on Wind Farm Profitability. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	5
34	Biogas from Anaerobic Digestion: Power Generation or Biomethane Production?. Energies, 2020, 13, 743.	1.6	41
35	Ramp rate abatement for wind power plants: A techno-economic analysis. Applied Energy, 2019, 254, 113600.	5.1	19
36	A comparative assessment of Power-to-Fuel production pathways. Energy, 2019, 183, 1253-1265.	4.5	34

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37	Potential energy recovery by integrating an ORC in a biogas plant. Applied Energy, 2019, 256, 113960.	5.1	27
38	Potential energy recovery from LNG regasification in LNG-fueled ships. E3S Web of Conferences, 2019, 113, 02011.	0.2	1
39	Ramp rate abatement for wind energy integration in microgrids. Energy Procedia, 2019, 159, 292-297.	1.8	2
40	Poly-generation capability of a biogas plant with upgrading system. Energy Procedia, 2019, 159, 280-285.	1.8	5
41	Feasibility analysis of coupling an ORC to a mGT in a biogas plant. Energy Procedia, 2019, 158, 2311-2316.	1.8	7
42	Solid-oxide electrolyzer coupled biomass-to-methanol systems. Energy Procedia, 2019, 158, 4548-4553.	1.8	11
43	3D design and optimization of heat exchanger network for solid oxide fuel cell-gas turbine in hybrid electric vehicles. Applied Thermal Engineering, 2019, 163, 114310.	3.0	14
44	Estimating the revenue potential of flexible biogas plants in the power sector. Energy Policy, 2019, 128, 402-410.	4.2	18
45	Biomethane grid injection or biomethane liquefaction: A technical-economic analysis. Biomass and Bioenergy, 2019, 127, 105264.	2.9	32
46	Statistical evaluation of the effect of water percentage in water-diesel emulsion on the engine performance and exhaust emission parameters. Energy, 2019, 180, 797-806.	4.5	20
47	Feasibility Analysis of Bio-Methane Production in a Biogas Plant: A Case Study. Energies, 2019, 12, 473.	1.6	24
48	Experimental investigation on biomass shrinking and swelling behaviour: Particles pyrolysis and wood logs combustion. Biomass and Bioenergy, 2019, 123, 1-13.	2.9	25
49	A simplified model for the prediction of energy consumption in large-scale commercial activities. AIP Conference Proceedings, 2019, , .	0.3	0
50	Techno-Economic Optimization of CO2-to-Methanol with Solid-Oxide Electrolyzer. Energies, 2019, 12, 3742.	1.6	33
51	Critical review and economic feasibility analysis of electric energy storage technologies suited for grid scale applications. E3S Web of Conferences, 2019, 137, 01037.	0.2	11
52	Steam expander as a throttling valve replacement in industrial plants: A techno-economic feasibility analysis. Applied Energy, 2019, 238, 11-21.	5.1	11
53	Analysis of suitability ranges of high temperature heat pump working fluids. Applied Thermal Engineering, 2019, 150, 628-640.	3.0	64
54	A co-located solar receiver and thermal storage concept using silicate glass at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.gif" overflow="scroll"><mml:mrow><mml:mn>1000</mml:mn><mml:mspace width="0.25em" /><mml:mi>Â°</mml:mi><mml:mtext>C</mml:mtext></mml:mrow></mml:math>and above: Experiments and modeling in the optically-thick regime. Solar Energy, 2019, 177, 553-560.	2.9	6

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55	Solar PV-Battery-Electric Grid-Based Energy System for Residential Applications: System Configuration and Viability. Research, 2019, 2019, 3838603.	2.8	33
56	Impact of Forecast Uncertainty on Wind Farm Profitability. , 2019, , .		0
57	Small scale bio-LNG plant: Comparison of different biogas upgrading techniques. Applied Energy, 2018, 217, 328-335.	5.1	92
58	Experimental investigation on the air excess and air displacement influence on early stage and complete combustion gaseous emissions of a small scale fixed bed biomass boiler. Applied Energy, 2018, 216, 576-587.	5.1	19
59	Effects of large scale penetration of renewables: The Italian case in the years 2008â€“2015. Renewable and Sustainable Energy Reviews, 2018, 81, 3090-3100.	8.2	41
60	Editorial preface â€“ ATI 2018 â€“ Energy Procedia. Energy Procedia, 2018, 148, 1.	1.8	0
61	Biomass early stage combustion in a small size boiler: experimental and numerical analysis. Energy Procedia, 2018, 148, 1159-1166.	1.8	1
62	Impact of consumption profile discontinuities on the feasibility of a PV plant. Energy Procedia, 2018, 148, 455-462.	1.8	1
63	Biogas upgrading and liquefaction in an anaerobic digester plant. Energy Procedia, 2018, 148, 655-662.	1.8	6
64	Techno-economic sizing of a battery energy storage coupled to a wind farm: an Italian case study. Energy Procedia, 2018, 148, 447-454.	1.8	20
65	Power-to-Gas: Analysis of potential decarbonization of Spanish electrical system in long-term prospective. Energy, 2018, 159, 656-668.	4.5	28
66	Opportunities of power-to-gas technology in different energy systems architectures. Applied Energy, 2018, 228, 57-67.	5.1	150
67	Thermodynamic and economic analysis of the integration of Organic Rankine Cycle and Multi-Effect Distillation in waste-heat recovery applications. Energy, 2018, 161, 456-469.	4.5	66
68	Transformative innovations for a sustainable future â€“ Part III. Applied Energy, 2018, 227, 1-6.	5.1	2
69	Energy and economic savings through a plant supervised management in large-scale commercial activities. Applied Thermal Engineering, 2018, 141, 269-279.	3.0	8
70	Hybridization of rubber tired gantry (RTG) cranes. Journal of Energy Storage, 2017, 12, 186-195.	3.9	30
71	Technical and economic analysis of organic flash regenerative cycles (OFRCs) for low temperature waste heat recovery. Applied Energy, 2017, 199, 69-87.	5.1	60
72	Efficient startâ€“up energy management via nonlinear control for ecoâ€“traction systems. Applied Energy, 2017, 187, 899-909.	5.1	13

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73	A novel Pumped Thermal Electricity Storage (PTES) system with thermal integration. Applied Thermal Engineering, 2017, 121, 1051-1058.	3.0	87
74	Liquid air energy storage: Potential and challenges of hybrid power plants. Applied Energy, 2017, 194, 522-529.	5.1	119
75	Dynamic modeling of a solar ORC with compound parabolic collectors: Annual production and comparison with steady-state simulation. Energy Conversion and Management, 2017, 148, 708-723.	4.4	37
76	Opportunities of Power-to-Gas technology. Energy Procedia, 2017, 105, 4569-4574.	1.8	50
77	Transformative Innovations for a Sustainable Future â€“ Part II. Applied Energy, 2017, 207, 1-6.	5.1	9
78	Coupling Solid Oxide Electrolyser (SOE) and ammonia production plant. Applied Energy, 2017, 192, 466-476.	5.1	74
79	Sustainable mini-grid. Energy Procedia, 2017, 142, 3008-3013.	1.8	1
80	Auxiliary Power Units for pleasure boats. , 2017, , .		3
81	Potential of Reversible Solid Oxide Cells as Electricity Storage System. Energies, 2016, 9, 662.	1.6	39
82	SOFC operating with ammonia: Stack test and system analysis. International Journal of Hydrogen Energy, 2016, 41, 13583-13590.	3.8	84
83	Dynamic modelling of a low-concentration solar power plant: A control strategy to improve flexibility. Renewable Energy, 2016, 95, 574-585.	4.3	24
84	Dynamic Control Strategies for Distributed Microgeneration and Waste Heat Recovery Power Plants. Energy Procedia, 2016, 88, 106-111.	1.8	1
85	Accelerated test for MCFC button cells: First findings. International Journal of Hydrogen Energy, 2016, 41, 18807-18814.	3.8	15
86	Biomass integrated gasifier-fuel cells: Experimental investigation on wood syngas tars impact on NiYSZ-anode Solid Oxide Fuel Cells. Energy Conversion and Management, 2016, 128, 361-370.	4.4	51
87	Liquid Air Energy Storage: A Potential Low Emissions and Efficient Storage System. Energy Procedia, 2016, 88, 693-697.	1.8	31
88	A system approach in energy evaluation of different renewable energies sources integration in ammonia production plants. Renewable Energy, 2016, 99, 472-482.	4.3	113
89	Energy solutions for a sustainable world. International Journal of Green Energy, 2016, 13, 757-758.	2.1	0
90	Analysis of heat transfer in different CPC solar collectors: A CFD approach. Applied Thermal Engineering, 2016, 101, 479-489.	3.0	27

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91	Off-design operation of coal power plant integrated with natural gas fueled molten carbonate fuel cell as CO2 reducer. International Journal of Hydrogen Energy, 2016, 41, 4773-4783.	3.8	24
92	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
93	Assessment of carbon balance in intensive and extensive tree cultivation systems for oak, olive, poplar and walnut plantation. Journal of Cleaner Production, 2016, 112, 2613-2624.	4.6	33
94	Integration of Solid Oxide Electrolyzer and Fischer-Tropsch: A sustainable pathway for synthetic fuel. Applied Energy, 2016, 162, 308-320.	5.1	95
95	Experimental investigation of a diesel engine power, torque and noise emission using waterâ€“diesel emulsions. Fuel, 2016, 166, 392-399.	3.4	68
96	Comparison Between the Coal-Fired Power Plant With CO2 Capture by Integrating MCFCs System and the Integrated Gasification Combined Cycle System Integrated MCFCs. , 2015, , .		0
97	SOFC fuelled with reformed urea. Applied Energy, 2015, 154, 242-253.	5.1	53
98	Design and Preliminary Operation of a Gasification Plant for Micro-CHP with Internal Combustion Engine and SOFC. Energy Procedia, 2015, 81, 298-308.	1.8	11
99	Electrical production of a small size Concentrated Solar Power plant with compound parabolic collectors. Renewable Energy, 2015, 83, 1110-1118.	4.3	30
100	Challenges in load balance due to renewable energy sources penetration: The possible role of energy storage technologies relative to the Italian case. Energy, 2015, 93, 393-405.	4.5	44
101	Clean, efficient, affordable and reliable energy for a sustainable future. Energy Conversion and Management, 2015, 102, 1-3.	4.4	19
102	Dimethyl sulfide adsorption from natural gas for solid oxide fuel cell applications. Fuel Processing Technology, 2015, 140, 21-31.	3.7	14
103	On the Possible Wind Energy Contribution for Feeding a High Altitude Smart Mini Grid. Energy Procedia, 2015, 75, 1072-1079.	1.8	6
104	How Wind Turbines Alignment to Wind Direction Affects Efficiency? A Case Study through SCADA Data Mining. Energy Procedia, 2015, 75, 697-703.	1.8	18
105	Do feed-in tariffs drive PV cost or viceversa?. Applied Energy, 2014, 135, 721-729.	5.1	33
106	Experimental Analysis of SOFC Fuelled by Ammonia. Fuel Cells, 2014, 14, 221-230.	1.5	47
107	SOFC Thermal Transients: Modeling by Application of Experimental System Identification Techniques. Fuel Cells, 2014, 14, 107-122.	1.5	14
108	A simplified method for the evaluation of the performance of coal fired power plant with carbon capture. Applied Thermal Engineering, 2014, 64, 263-272.	3.0	28

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109	Operating maps of a rotary engine used as an expander for micro-generation with various working fluids. Applied Energy, 2014, 113, 742-750.	5.1	65
110	Analysis and comparison between a concentrating solar and a photovoltaic power plant. Applied Energy, 2014, 113, 422-433.	5.1	127
111	Rural household energy consumption and its implications for eco-environments in NW China: A case study. Renewable Energy, 2014, 65, 137-145.	4.3	54
112	Thermo-fluid dynamic modeling and simulation of a bioclimatic solar greenhouse with self-cleaning and photovoltaic glasses. Energy and Buildings, 2014, 68, 183-195.	3.1	9
113	The doping effect of Italian feed-in tariffs on the PV market. Energy Policy, 2014, 67, 583-594.	4.2	82
114	Adsorptive removal of H 2 S in biogas conditions for high temperature fuel cell systems. International Journal of Hydrogen Energy, 2014, 39, 21753-21766.	3.8	68
115	Modeling the performance of MCFC for various fuel and oxidant compositions. International Journal of Hydrogen Energy, 2014, 39, 11713-11721.	3.8	67
116	Carbon footprint of an olive tree grove. Applied Energy, 2014, 127, 115-124.	5.1	66
117	Theoretical study and performance evaluation of hydrogen production by 200ÂW solid oxide electrolyzer stack. International Journal of Hydrogen Energy, 2014, 39, 9457-9466.	3.8	54
118	Energetic and economic analysis of a Brazilian compact cogeneration system: Comparison between natural gas and biogas. Renewable and Sustainable Energy Reviews, 2014, 38, 193-211.	8.2	34
119	Design of a multipurpose â€œzero energy consumptionâ€•building according to European Directive 2010/31/EU: Life cycle assessment. Energy and Buildings, 2014, 80, 585-597.	3.1	28
120	Carbon footprint of a reflective foil and comparison with other solutions for thermal insulation in building envelope. Applied Energy, 2013, 112, 843-855.	5.1	30
121	Life Cycle Assessment of a passive house in a seismic temperate zone. Energy and Buildings, 2013, 64, 463-472.	3.1	73
122	Design of a multipurpose â€œzero energy consumptionâ€•building according to European Directive 2010/31/EU: Architectural and technical plants solutions. Energy, 2013, 58, 157-167.	4.5	26
123	Characterization of a 100ÂW SOFC stack fed by carbon monoxide rich fuels. International Journal of Hydrogen Energy, 2013, 38, 525-531.	3.8	44
124	The IPRP (Integrated Pyrolysis Regenerated Plant) technology: From concept to demonstration. Applied Energy, 2013, 101, 423-431.	5.1	41
125	Comparative analysis of concentrating solar power and photovoltaic technologies: Technical and environmental evaluations. Applied Energy, 2013, 102, 765-784.	5.1	142
126	CFD Analysis of an Annular Micro Gas Turbine Combustion Chamber Fuelled With Liquid Biofuels: Preliminary Results With Bioethanol. , 2013, , .		2

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127	Fundamentals of gas turbine cycles: thermodynamics, efficiency and specific power. , 2013, , 44-85.		2
128	Biomass combustion and chemical looping for carbon capture and storage. Sustainable Energy Developments, 2013, , 129-173.	0.3	1
129	Life Cycle Assessment of a ground-mounted 1778kWp photovoltaic plant and comparison with traditional energy production systems. Applied Energy, 2012, 97, 930-943.	5.1	114
130	European project Educa-RUE: An example of energy efficiency paths in educational buildings. Applied Energy, 2012, 97, 384-395.	5.1	27
131	Clean energy technologies and systems for a sustainable world. Applied Energy, 2012, 97, 1-4.	5.1	56
132	Carbon capture with molten carbonate fuel cells: Experimental tests and fuel cell performance assessment. International Journal of Greenhouse Gas Control, 2012, 9, 372-384.	2.3	80
133	MCFC-based CO2 capture system for small scale CHP plants. International Journal of Hydrogen Energy, 2012, 37, 19295-19303.	3.8	68
134	Analysis of pollutant emissions from cogeneration and district heating systems aimed to a feasibility study of MCFC technology for carbon dioxide separation as retrofitting of existing plants. International Journal of Greenhouse Gas Control, 2011, 5, 1663-1673.	2.3	19
135	Experimental Comparison and Performance Evaluation of Planar Solid Oxide Single Cell. , 2011, , .		0
136	Feasibility study and numerical simulation of a ground source heat pump plant, applied to a residential building. Applied Thermal Engineering, 2011, 31, 3500-3511.	3.0	40
137	Life Cycle Assessment of a Reflective Foil Material and Comparison With Other Solutions for Thermal Insulation of Buildings. , 2011, , .		0
138	Integrated approach to a multifunctional complex. Management of Environmental Quality, 2010, 21, 659-679.	2.2	6
139	Assessment of the Energy Conversion of Whole Oil Fruits With a Pyrolysis and Gas Turbine Process. , 2010, , .		6
140	Gas Turbines Fired With Biomass Pyrolysis Syngas: Analysis of the Overheating of Hot Gas Path Components. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	18
141	Advanced absorption processes and technology for carbon dioxide (CO2) capture in power plants. , 2010, , 155-182.		5
142	Gas Turbines Fired With Biomass Pyrolysis Syngas: Analysis of the Overheating of Hot Gas Path Components. , 2009, , .		2
143	Solar-powered cooling systems: Technical and economic analysis on industrial refrigeration and air-conditioning applications. Applied Energy, 2009, 86, 1376-1386.	5.1	163
144	Repowering of a Gas Turbine Based CHP in a Pulp and Paper Industry. , 2009, , .		0

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145	Performance Evaluation of the IPRP Technology When Fueled With Biomass Residuals and Waste Feedstocks. , 2009, , .		8
146	Feasibility study for a carbon capture and storage project in northern Italy. International Journal of Energy Research, 2008, 32, 1175-1183.	2.2	22
147	Thermodynamic Analysis of a SOFC Aystem for CHP Applications: Influence of Operation Parameters on Global Efficiency. ECS Transactions, 2007, 7, 1811-1820.	0.3	0
148	Oriented-Control Lumped Model of a SOFC Stack: Thermal and Electrochemical Response to External Perturbations. ECS Transactions, 2007, 7, 1995-2003.	0.3	0
149	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste â€" Part II: Introducing Product Yields in the Energy Balance. Journal of Engineering for Gas Turbines and Power, 2007, 129, 908-913.	0.5	23
150	A Technoeconomic Analysis of Different Options for Cogenerating Power in Hydrogen Plants Based on Natural Gas Reforming. Journal of Engineering for Gas Turbines and Power, 2007, 129, 338-351.	0.5	1
151	Should Biomass be Used for Power Generation or Hydrogen Production?. Journal of Engineering for Gas Turbines and Power, 2007, 129, 629-636.	0.5	33
152	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Wasteâ€"Part I: Working Envelope of the Reactor. Journal of Engineering for Gas Turbines and Power, 2007, 129, 901-907.	0.5	38
153	Thermodynamic Analysis and Possible Applications of the Integrated Pyrolysis Fuel Cell Plant (IPFCP). , 2007, , 427.		3
154	An IPRP (Integrated Pyrolysis Regenerated Plant) Microscale Demonstrative Unit in Central Italy. , 2007, , .		13
155	A Novel Concept for Combined Heat and Cooling in Humid Gas Turbine Cycles. , 2007, , .		2
156	An integrated scenario analysis for the metal coating sector in Europe. Technological Forecasting and Social Change, 2007, 74, 1482-1507.	6.2	6
157	Study of the carbonationâ€"calcination reaction applied to the hydrogen production from syngas. Energy, 2007, 32, 697-710.	4.5	15
158	Production of hydrogen through the carbonationâ€"calcination reaction applied to CH4/CO2 mixtures. Energy, 2007, 32, 834-843.	4.5	20
159	Techno-Economic Analysis and Comparative Evaluation of the Use of Gas Turbines and Reciprocating Engines in Small Scale Applications of Industrial Cogeneration. , 2007, , .		0
160	A Techno-Economic Analysis of Different Options for Cogenerating Power in Hydrogen Plants Based on Natural Gas Reforming. , 2006, , 343.		0
161	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste: Part 2 â€" Introducing Product Yields in the Energy Balance. , 2006, , 417.		1
162	Analysis of Biomass Integrated Gasification Fuel Cell Plants in Industrial CHP Applications. , 2006, , .		2

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163	Implementation of a System for the Analysis and Evaluation of Advantages of Distributed Generation. , 2006, , .		1
164	Analysis of Gas-Steam Combined Cycles With Natural Gas Reforming and CO2 Capture. Journal of Engineering for Gas Turbines and Power, 2005, 127, 545-552.	0.5	19
165	A Matlab-Simulink Analysis of Hybrid SOFC Dynamic Behavior. , 2005, , 245.		1
166	A Comparison Between the LCA of a PEMFC and an MCFC System for the Production of Electric Energy, and Traditional Energy Conversion Systems. , 2005, , .		1
167	Integrated Pyrolysis Regenerated Plant (IPRP): An Efficient and Scalable Concept for Gas Turbine Based Energy Conversion From Biomass and Waste. Journal of Engineering for Gas Turbines and Power, 2005, 127, 348-357.	0.5	17
168	Should Biomass Be Used for Power Generation or Hydrogen Production?. , 2005, , .		0
169	Evaluation of Available Technologies for Chicken Manure Energy Conversion and Techno-Economic Assessment of a Case Study in Italy. , 2004, , 647.		4
170	Micro Scale Slow-Pyrolysis Rotary Kiln for Syngas and Char Production From Biomass and Waste: Design and Construction of a Reactor Test Bench. , 2004, , 159.		3
171	Life-cycle-assessment of fuel-cells-based landfill-gas energy conversion technologies. Journal of Power Sources, 2004, 131, 120-126.	4.0	34
172	LCA of a molten carbonate fuel cell system. Journal of Power Sources, 2004, 137, 239-247.	4.0	20
173	A Comparison Between Life Cycle Assessment of an MCFC System, An LFG-MCFC System, and Traditional Energy Conversion Systems. , 2004, , 331.		1
174	Analysis and Statistic Evaluation of Distributed Generation in Italy. , 2004, , .		4
175	High Resolution Infrared Thermography for Airfoils Boundary Layer Inspection in Passive Mode. , 2004, , .		2
176	Sanitary landfill energetic potential analysis: a real case study. Energy Conversion and Management, 2003, 44, 1969-1981.	4.4	49
177	Analysis and optimization of hybrid MCFC gas turbines plants. Journal of Power Sources, 2003, 118, 108-117.	4.0	44
178	Design of a solar collector for year-round climatization. Renewable Energy, 2003, 28, 623-645.	4.3	7
179	Performance estimation and experimental measurements of a photovoltaic roof. Renewable Energy, 2003, 28, 1833-1850.	4.3	52
180	Perspectives on the Use of Molten Carbonate Fuel Cells with Renewable Energy Sources. , 2003, , .		1

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181	State of the Art About the Effects of Impurities on MCFCs and Pointing Out of Additional Research for Alternative Fuel Utilization. , 2003, , .		6
182	Energy Production and Performance of a Large Photovoltaic Roof. , 2003, , .		0
183	Integrated Micro-Turbine and Rotary-Kiln Pyrolysis System as a Waste to Energy Solution for a Small Town in Central Italy: Cost Positioning and Global Warming Assessment. , 2002, , 887.		8
184	Feasibility and Performance of an Ambient Pressure MCFC Combined With a Commercial Gas Turbine. , 2002, , 869.		2
185	Analysis of energy consumption in the high schools of a province in central Italy. Energy and Buildings, 2002, 34, 1003-1016.	3.1	75
186	CO2 Capture and Removal System for a Gas-Steam Combined Cycle. , 2002, , .		6
187	Power pipe: An algorithm for analysis for single-phase, steady state, pipe networks with second-degree boundary conditions. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2001, 215, 519-525.	0.8	0
188	Highly efficient electricity generation through a hybrid molten carbonate fuel cell-closed loop gas turbine plant. Energy Conversion and Management, 2001, 42, 1657-1672.	4.4	22
189	A Steady State Calculation Model for Gas Turbine Thermal Enclosures. , 2000, , .		0
190	Study of a cogeneration plant for agro-food industry. Applied Thermal Engineering, 2000, 20, 993-1017.	3.0	16
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