

Marco Beccali

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	3,033 citations	31 h-index	54 g-index
87 ext. papers	3,452 ext. citations	6.8 avg, IF	5.43 L-index

#	Paper	IF	Citations
76	Decision-making in energy planning. Application of the Electre method at regional level for the diffusion of renewable energy technology. <i>Renewable Energy</i> , 2003 , 28, 2063-2087	8.1	306
75	Building energy performance: A LCA case study of kenaf-fibres insulation board. <i>Energy and Buildings</i> , 2008 , 40, 1-10	7	192
74	Forecasting daily urban electric load profiles using artificial neural networks. <i>Energy Conversion and Management</i> , 2004 , 45, 2879-2900	10.6	170
73	Energy performances and life cycle assessment of an Italian wind farm. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 200-217	16.2	165
72	Energy and environmental benefits in public buildings as a result of retrofit actions. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 460-470	16.2	162
71	Energy retrofit of a single-family house: Life cycle net energy saving and environmental benefits. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 283-293	16.2	102
70	Energy, economic and environmental analysis on RET-hydrogen systems in residential buildings. <i>Renewable Energy</i> , 2008 , 33, 366-382	8.1	96
69	Decision making in energy planning: the ELECTRE multicriteria analysis approach compared to a FUZZY-SETS methodology. <i>Energy Conversion and Management</i> , 1998 , 39, 1869-1881	10.6	95
68	Energy and economic assessment of desiccant cooling systems coupled with single glazed air and hybrid PV/thermal solar collectors for applications in hot and humid climate. <i>Solar Energy</i> , 2009 , 83, 1828-1846	6.8	94
67	Short-term prediction of household electricity consumption: Assessing weather sensitivity in a Mediterranean area. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 2040-2065	16.2	87
66	Resource consumption and environmental impacts of the agrofood sector: life cycle assessment of italian citrus-based products. <i>Environmental Management</i> , 2009 , 43, 707-24	3.1	86
65	Assessment of bioenergy potential in Sicily: A GIS-based support methodology. <i>Biomass and Bioenergy</i> , 2009 , 33, 79-87	5.3	83
64	Life cycle assessment of Italian citrus-based products. Sensitivity analysis and improvement scenarios. <i>Journal of Environmental Management</i> , 2010 , 91, 1415-28	7.9	69
63	Energy-environmental and cost assessment of a set of strategies for retrofitting a public building toward nearly zero-energy building target. <i>Sustainable Cities and Society</i> , 2017 , 32, 226-234	10.1	66
62	Simplified models for the performance evaluation of desiccant wheel dehumidification. <i>International Journal of Energy Research</i> , 2003 , 27, 17-29	4.5	64
61	Improvement of energy efficiency and quality of street lighting in South Italy as an action of Sustainable Energy Action Plans. The case study of Comiso (RG). <i>Energy</i> , 2015 , 92, 394-408	7.9	58
60	Advanced solar assisted desiccant and evaporative cooling system equipped with wet heat exchangers. <i>Solar Energy</i> , 2012 , 86, 608-618	6.8	56

59	Energy performance evaluation of a demo solar desiccant cooling system with heat recovery for the regeneration of the adsorption material. <i>Renewable Energy</i> , 2012 , 44, 40-52	8.1	54
58	LCA of a solar heating and cooling system equipped with a small water-ammonia absorption chiller. <i>Solar Energy</i> , 2012 , 86, 1491-1503	6.8	53
57	Energy saving and user satisfaction for a new advanced public lighting system. <i>Energy Conversion and Management</i> , 2019 , 195, 943-957	10.6	52
56	Artificial neural network decision support tool for assessment of the energy performance and the refurbishment actions for the non-residential building stock in Southern Italy. <i>Energy</i> , 2017 , 137, 1201-1218	7.8	52
55	Method for size optimisation of large wind-hydrogen systems with high penetration on power grids. <i>Applied Energy</i> , 2013 , 102, 534-544	10.7	50
54	An empirical approach for ranking environmental and energy saving measures in the hotel sector. <i>Renewable Energy</i> , 2009 , 34, 82-90	8.1	47
53	Aspects and issues of daylighting assessment: A review study. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 66, 852-860	16.2	42
52	Environmental effects of energy policy in sicily: The role of renewable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2007 , 11, 282-298	16.2	41
51	F.A.L.C.A.D.E.: a fuzzy software for the energy and environmental balances of products. <i>Ecological Modelling</i> , 2004 , 176, 359-379	3	41
50	Life cycle performance assessment of small solar thermal cooling systems and conventional plants assisted with photovoltaics. <i>Solar Energy</i> , 2014 , 104, 93-102	6.8	36
49	Concrete thermal energy storage for linear Fresnel collectors: Exploiting the South Mediterranean solar potential for agri-food processes. <i>Energy Conversion and Management</i> , 2018 , 166, 719-734	10.6	34
48	Solar heating and cooling systems versus conventional systems assisted by photovoltaic: Application of a simplified LCA tool. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 156, 92-100	6.4	34
47	Estimation of wind velocity over a complex terrain using the Generalized Mapping Regressor. <i>Applied Energy</i> , 2010 , 87, 884-893	10.7	32
46	On the impact of safety requirements, energy prices and investment costs in street lighting refurbishment design. <i>Energy</i> , 2018 , 165, 739-759	7.9	32
45	Vernacular and bioclimatic architecture and indoor thermal comfort implications in hot-humid climates: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 1726-1736	16.2	31
44	Overgrid: A Fully Distributed Demand Response Architecture Based on Overlay Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 471-481	4.9	29
43	Update on desiccant wheel model. <i>International Journal of Energy Research</i> , 2004 , 28, 1043-1049	4.5	28
42	Life Cycle Assessment of a compact Desiccant Evaporative Cooling system: The case study of the Breescow. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 156, 83-91	6.4	28

41	Cost optimal analysis of lighting retrofit scenarios in educational buildings in Italy. <i>Energy Procedia</i> , 2017 , 126, 171-178	2.3	27
40	Energy balance and life cycle assessment of small size residential solar heating and cooling systems equipped with adsorption chillers. <i>Solar Energy</i> , 2017 , 158, 543-558	6.8	23
39	Life Cycle Assessment Performance Comparison of Small Solar Thermal Cooling Systems with Conventional Plants Assisted with Photovoltaics. <i>Energy Procedia</i> , 2012 , 30, 893-903	2.3	22
38	A set of indices to assess the real performance of daylight-linked control systems. <i>Energy and Buildings</i> , 2017 , 149, 235-245	7	21
37	Assessing the feasibility of cogeneration retrofit and district heating/cooling networks in small Italian islands. <i>Energy</i> , 2017 , 141, 2572-2586	7.9	20
36	Assessment of indoor illuminance and study on best photosensors' position for design and commissioning of Daylight Linked Control systems. A new method based on artificial neural networks. <i>Energy</i> , 2018 , 154, 466-476	7.9	19
35	Use of finite element models for estimating thermal performance of façade-integrated solar thermal collectors. <i>Applied Energy</i> , 2016 , 171, 392-404	10.7	18
34	Characterization of a small Mediterranean island end-users electricity consumption: The case of Lampedusa. <i>Sustainable Cities and Society</i> , 2017 , 35, 1-12	10.1	18
33	Smart lighting in a historic context: a case study. <i>Management of Environmental Quality</i> , 2017 , 28, 282-298	3.6	17
32	Energy and environmental life-cycle impacts of solar-assisted systems: The application of the tool ELISA. <i>Renewable Energy</i> , 2020 , 145, 29-40	8.1	16
31	A solar assisted seasonal borehole thermal energy system for a non-residential building in the Mediterranean area. <i>Solar Energy</i> , 2019 , 192, 120-132	6.8	14
30	Experimental results on adsorption beds for air dehumidification. <i>International Journal of Refrigeration</i> , 2016 , 63, 100-112	3.8	13
29	A feasibility study of some DSM enabling solutions in small islands: The case of Lampedusa. <i>Energy</i> , 2017 , 140, 1030-1046	7.9	12
28	A Simplified LCA Tool for Solar Heating and Cooling Systems. <i>Energy Procedia</i> , 2016 , 91, 317-324	2.3	11
27	Assessing the lighting systems flexibility for reducing and managing the power peaks in smart grids. <i>Applied Energy</i> , 2020 , 268, 114924	10.7	10
26	Is the NZEB Benchmarking Approach Suitable for Assessing Energy Retrofit Design?. <i>Applied Mechanics and Materials</i> , 2013 , 361-363, 402-407	0.3	10
25	Analysis of some renewable energy uses and demand side measures for hotels on small Mediterranean islands: A case study. <i>Energy</i> , 2018 , 157, 106-114	7.9	10
24	Second Generation of Frescoo Solar DEC Prototypes for Residential Applications. <i>Energy Procedia</i> , 2015 , 70, 427-434	2.3	8

23	Nomograph for rapid technical and economic assessment of solar thermal systems for DHW production. <i>Solar Energy</i> , 2012 , 86, 2472-2485	6.8	8
22	Solar-assisted heat pumps systems for domestic hot water production in small energy communities. <i>Solar Energy</i> , 2021 , 217, 113-133	6.8	7
21	Innovative Compact Solar Air Conditioner based on Fixed and Cooled Adsorption Beds and Wet Heat Exchangers. <i>Energy Procedia</i> , 2014 , 48, 819-827	2.3	6
20	A laboratory setup for the evaluation of the effects of BACS and TBM systems on lighting 2015 ,		6
19	Building Integrated Solar Thermal Design: Assessment of Performances of a Low Cost Solar Wall in a Typical Italian Building. <i>Energy Procedia</i> , 2016 , 91, 916-925	2.3	6
18	On the Applicability of the Space Syntax Methodology for the Determination of Street Lighting Classes. <i>Energies</i> , 2020 , 13, 1476	3.1	5
17	Assessment of the Entropy of Spatial and Time Distributions of Rooms Daylighting: a Possible Tool for a Sustainable Design. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2015 , 3, 425-435	1.9	5
16	A Multifunctional Public Lighting Infrastructure, Design and Experimental Test. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2017 , 5, 608-625	1.9	5
15	Space Syntax Analysis Applied to Urban Street Lighting: Relations between Spatial Properties and Lighting Levels. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3331	2.6	3
14	Numerical evaluation on performances of AHU equipped with a cross flow heat exchanger in wet and dry operation. <i>Energy Procedia</i> , 2012 , 30, 515-523	2.3	3
13	Solar and Heat Pump Systems for Domestic Hot Water Production on a Small Island: The Case Study of Lampedusa. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5968	2.6	3
12	Monitoring Results and Energy Performances Evaluation of Freesco Solar DEC Systems. <i>Energy Procedia</i> , 2016 , 91, 752-758	2.3	3
11	Benefits of Refurbishment 2013 , 99-117		3
10	Sizing analysis of interior lighting using tubular daylighting devices. <i>Energy Procedia</i> , 2017 , 126, 179-186	2.3	2
9	Electrochemical energy storage mitigating impact of electric vehicle on the electric grid: Two Italian case studies 2017 ,		2
8	Assessment of the technical and economic potential of offshore wind energy via a GIS application: A case study for the Sicily Region according to Italian laws and incentive frameworks 2015 ,		2
7	Technical-Economic Evaluation of the Effectiveness of Measures Applied to the Artificial Lighting System of a School. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6664	2.6	2
6	Quality Assurance and Support Measures for Solar Cooling on System Level. <i>Energy Procedia</i> , 2016 , 91, 792-798	2.3	2

- 5 Experimental validation of the BAC factor method for lighting systems **2017**, 1
- 4 Empirical BAC factors method application to two real case studies in South Italy. *Energy*, **2021**, 236, 121498 1
- 3 Road Thermal Collector for Building Heating in South Europe: Numerical Modeling and Design of an Experimental Set-Up. *Energies*, **2022**, 15, 430 3.1
- 2 THE POTENTIAL OF RENEWABLE ENERGIES IN SICILY FOR WATER DESALINATION APPLICATIONS **2007**, 179-194
- 1 Application of Adaptive Models for the Determination of the Thermal Behaviour of a Photovoltaic Panel. *Lecture Notes in Computer Science*, **2013**, 344-358 0.9