Enrico Fabrizio

List of Publications by Year
in descending order

75 papers	2,558 citations	230014 27 h-index	232693 48 g-index
79 all docs	79 docs citations	79 times ranked	2758 citing authors

#	Article	IF	Citations
1	Energy impact of climate control in pig farming: Dynamic simulation and experimental validation. Applied Energy, 2022, 309, 118457.	5.1	10
2	The role of solar cooling for nearly zero energy multifamily buildings: Performance analysis across different climates. Renewable Energy, 2022, 194, 1343-1353.	4.3	8
3	A Supervisory Control Strategy for Improving Energy Efficiency of Artificial Lighting Systems in Greenhouses. Energies, 2021, 14, 202.	1.6	7
4	Energy Evaluation of a PV-Based Test Facility for Assessing Future Self-Sufficient Buildings. Energies, 2021, 14, 329.	1.6	15
5	Energy performance and climate control in mechanically ventilated greenhouses: A dynamic modelling-based assessment and investigation. Applied Energy, 2021, 288, 116583.	5.1	37
6	Modelling a fifth-generation bidirectional low temperature district heating and cooling (5GDHC) network for nearly Zero Energy District (nZED). Energy Reports, 2021, 7, 8390-8405.	2.5	28
7	On the real performance of groundwater heat pumps: Experimental evidence from a residential district. Applied Thermal Engineering, 2021, 192, 116887.	3.0	12
8	Identification of energy-efficient solutions for broiler house envelopes through a primary energy approach. Journal of Cleaner Production, 2021, 312, 127639.	4.6	14
9	A thermal and acoustic co-simulation method for the multi-domain optimization of nearly zero energy buildings. Journal of Building Engineering, 2021, 40, 102699.	1.6	6
10	Design optimization of renewable energy systems for NZEBs based on deep residual learning. Renewable Energy, 2021, 176, 590-605.	4.3	37
11	The Role of Climate Control in Monogastric Animal Farming: The Effects on Animal Welfare, Air Emissions, Productivity, Health, and Energy Use. Applied Sciences (Switzerland), 2021, 11, 9549.	1.3	7
12	Design and experimental analysis of an Integral Collector Storage (ICS) prototype for DHW production. Applied Energy, 2020, 259, 114104.	5.1	13
13	A Methodology to Investigate the Deviations between Simple and Detailed Dynamic Methods for the Building Energy Performance Assessment. Energies, 2020, 13, 6217.	1.6	18
14	Performance assessment and optimization of a solar cooling system to satisfy renewable energy ratio (RER) requirements in multi-family buildings. Renewable Energy, 2020, 155, 990-1008.	4.3	40
15	Zero Energy Buildings: A Reached Target or a Starting Point?. Applied Sciences (Switzerland), 2020, 10, 512.	1.3	4
16	The reduction of gas concentrations in broiler houses through ventilation: Assessment of the thermal and electrical energy consumption. Biosystems Engineering, 2020, 199, 135-148.	1.9	22
17	Optimizing the transition between design and operation of ZEBs: Lessons learnt from the Solar Decathlon China 2018 SCUTxPoliTo prototype. Energy and Buildings, 2020, 213, 109824.	3.1	17
18	Resilient optimal design of multi-family buildings in future climate scenarios. E3S Web of Conferences, 2019, 111, 06006.	0.2	6

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19	Modelling and performance analysis of a new concept of integral collector storage (ICS) with phase change material. Solar Energy, 2019, 183, 425-440.	2.9	25
20	Energy Demand and Supply Simultaneous Optimization to Design a Nearly Zero-Energy House. Applied Sciences (Switzerland), 2019, 9, 2261.	1.3	14
21	EDeSSOpt â€“ Energy Demand and Supply Simultaneous Optimization for cost-optimized design: Application to a multi-family building. Applied Energy, 2019, 236, 1231-1248.	5.1	32
22	Climate control in broiler houses: A thermal model for the calculation of the energy use and indoor environmental conditions. Energy and Buildings, 2018, 169, 110-126.	3.1	65
23	Energy-optimized versus cost-optimized design of high-performing dwellings: The case of multifamily buildings. Science and Technology for the Built Environment, 2018, 24, 513-528.	0.8	16
24	Automated optimization for the integrated design process: the energy, thermal and visual comfort nexus. Energy and Buildings, 2018, 168, 413-427.	3.1	40
25	Building for a Zero Carbon future: trade-off between carbon dioxide emissions and primary energy approaches. Energy Procedia, 2018, 148, 1074-1081.	1.8	9
26	Cost-Optimal Analysis for Nearly Zero Energy Buildings Design and Optimization: A Critical Review. Energies, 2018, 11, 1478.	1.6	70
27	<i>Dynamic thermal modelling of a large plastic multi-span greenhouse: calibrated simulation and energy retrofit</i>. , 2018, , .		0
28	Monitoring of a micro-smart grid: Power consumption data of some machineries of an agro-industrial test site. Data in Brief, 2017, 10, 564-568.	0.5	6
29	Energy demand profile generation with detailed time resolution at an urban district scale: A reference building approach and case study. Applied Energy, 2017, 193, 243-262.	5.1	73
30	Steam batch thermal processes in unsteady state conditions: Modelling and application to a case study in the food industry. Applied Thermal Engineering, 2017, 118, 638-651.	3.0	19
31	Technical-economic feasibility of CHP systems in large hospitals through the Energy Hub method: The case of Cagliari AOB. Energy and Buildings, 2017, 147, 101-112.	3.1	51
32	Assessment of Cost Optimal Solutions for High Performance Multi-family Buildings in Iran. Energy Procedia, 2017, 111, 318-327.	1.8	8
33	Reversed Brayton cycle for food freezing at very low temperatures: Energy performance and optimisation. International Journal of Refrigeration, 2017, 81, 82-95.	1.8	15
34	Influence of Envelope Design in the Optimization of the Energy Performance of a Multi-family Building. Energy Procedia, 2017, 111, 308-317.	1.8	4
35	Cost optimal nZEBs in future climate scenarios. Energy Procedia, 2017, 122, 877-882.	1.8	17
36	Monitoring and managing of a micro-smart grid for renewable sources exploitation in an agro-industrial site. Sustainable Cities and Society, 2017, 28, 88-100.	5.1	26

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37	Trade-off between sound insulation performance and cost-optimality in a residential nZEB. Energy Procedia, 2017, 140, 57-66.	1.8	3
38	Energy consumption certification of animal housing: results from the EPAnHaus project. , 2017, , .		1
39	Energy systems in cost-optimized design of nearly zero-energy buildings. Automation in Construction, 2016, 70, 109-127.	4.8	41
40	Energy Use for Climate Control of Animal Houses: The State of the Art in Europe. Energy Procedia, 2016, 101, 184-191.	1.8	44
41	Influence of Envelope Design in the Optimization of the Operational Energy Costs of a Multi-family Building. Energy Procedia, 2016, 101, 216-223.	1.8	4
42	Case Studies in Food Freezing at Very Low Temperature. Energy Procedia, 2016, 101, 305-312.	1.8	24
43	Energy Performance and Indoor Environmental Control of Animal Houses: A Modelling Tool. Energy Procedia, 2015, 82, 439-444.	1.8	11
44	Performance Assessment of a Solar Assisted Ground Source Heat Pump in a Mountain Site. Energy Procedia, 2015, 78, 2286-2291.	1.8	9
45	Performance Assessment of a Multi-energy System for a Food Industry. Energy Procedia, 2015, 82, 540-545.	1.8	14
46	Calibration of Building Energy Simulation Models Based on Optimization: A Case Study. Energy Procedia, 2015, 78, 2971-2976.	1.8	45
47	Appraising the Effect of the Primary Systems on the Cost Optimal Design of nZEB: A Case Study in Two Different Climates. Energy Procedia, 2015, 78, 2028-2033.	1.8	18
48	Comfort Filters in a Total Energy Demand Optimization Method for the Passive Design of a Building. Energy Procedia, 2015, 83, 418-427.	1.8	4
49	Energy Demand Profiles Assessment at District Scale: A Stochastic Approach for a Block of Buildings Demand Profiles Generation. Energy Procedia, 2015, 78, 3410-3415.	1.8	3
50	Cost optimality assessment of a single family house: Building and technical systems solutions for the nZEB target. Energy and Buildings, 2015, 90, 173-187.	3.1	83
51	Site Selection of Large Ground-Mounted Photovoltaic Plants: A GIS Decision Support System and an Application to Italy. International Journal of Green Energy, 2015, 12, 515-525.	2.1	40
52	Design of a low-temperature solar heating system based on a slurry Phase Change Material (PCS). Energy and Buildings, 2015, 106, 44-58.	3.1	41
53	Methodologies and Advancements in the Calibration of Building Energy Models. Energies, 2015, 8, 2548-2574.	1.6	161
54	Impact of low investment strategies for space heating control: Application of thermostatic radiators valves to an old residential building. Energy and Buildings, 2015, 95, 202-210.	3.1	43

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55	Visibility analysis in urban spaces: a raster-based approach and case studies. Environment and Planning B: Planning and Design, 2015, 42, 688-707.	1.7	14
56	Potentialities of a Low Temperature Solar Heating System Based on Slurry Phase Change Materials (PCS). Energy Procedia, 2014, 62, 355-363.	1.8	20
57	Modelling Zero Energy Buildings: Parametric Study for the Technical Optimization. Energy Procedia, 2014, 62, 200-209.	1.8	21
58	Integrated HVAC and DHW production systems for Zero Energy Buildings. Renewable and Sustainable Energy Reviews, 2014, 40, 515-541.	8.2	75
59	A simulation-based optimization method for cost-optimal analysis of nearly Zero Energy Buildings. Energy and Buildings, 2014, 84, 442-457.	3.1	172
60	A GIS Tool for the Land Carrying Capacity of Large Solar Plants. Energy Procedia, 2014, 48, 1576-1585.	1.8	21
61	Application of the LEED PRM to an Italian Existing Building. Energy Procedia, 2014, 62, 141-149.	1.8	7
62	Study of the Environmental Control of Sow Farrowing Rooms by Means of Dynamic Simulation. Lecture Notes in Electrical Engineering, 2014, , 3-11.	0.3	5
63	Reference buildings for cost optimal analysis: Method of definition and application. Applied Energy, 2013, 102, 983-993.	5.1	177
64	Modelling and optimization of a local smart grid for an agro-industrial site. Journal of Agricultural Engineering, 2013, 44, .	0.7	0
65	Energy reduction measures in agricultural greenhouses heating: Envelope, systems and solar energy collection. Energy and Buildings, 2012, 53, 57-63.	3.1	98
66	Feasibility of polygeneration in energy supply systems for health-care facilities under the Italian climate and boundary conditions. Energy for Sustainable Development, 2011, 15, 92-103.	2.0	14
67	Categories of indoor environmental quality and building energy demand for heating and cooling. Building Simulation, 2011, 4, 97-105.	3.0	9
68	On the applicability of the visual impact assessment OAI SPP tool to photovoltaic plants. Renewable and Sustainable Energy Reviews, 2011, 15, 845-850.	8.2	39
69	A model to design and optimize multi-energy systems in buildings at the design concept stage. Renewable Energy, 2010, 35, 644-655.	4.3	141
70	Trade-off between environmental and economic objectives in the optimization of multi-energy systems. Building Simulation, 2009, 2, 29-40.	3.0	26
71	An hourly modelling framework for the assessment of energy sources exploitation and energy converters selection and sizing in buildings. Energy and Buildings, 2009, 41, 1037-1050.	3.1	66
72	Integrated solar heating systems: From initial sizing procedure to dynamic simulation. Solar Energy, 2009, 83, 657-663.	2.9	25

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73	The territorial and landscape impacts of photovoltaic systems: Definition of impacts and assessment of the glare risk. Renewable and Sustainable Energy Reviews, 2009, 13, 2441-2451.	8.2	128
74	The impact of indoor thermal conditions, system controls and building types on the building energy demand. Energy and Buildings, 2008, 40, 627-636.	3.1	43
75	Assessment of building cooling energy need through a quasi-steady state model: Simplified correlation for gain-loss mismatch. Energy and Buildings, 2007, 39, 569-579.	3.1	54