

Giuseppe Peter Vanoli

List of Publications by Citations

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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.

71
papers

2,683
citations

28
h-index

51
g-index

72
ext. papers

3,116
ext. citations

6.1
avg, IF

5.56
L-index

#	Paper	IF	Citations
71	Energy refurbishment of existing buildings through the use of phase change materials: Energy savings and indoor comfort in the cooling season. <i>Applied Energy</i> , 2014 , 113, 990-1007	10.7	211
70	Green roofs in European climates. Are effective solutions for the energy savings in air-conditioning?. <i>Applied Energy</i> , 2013 , 104, 845-859	10.7	180
69	Energy retrofit of historical buildings: theoretical and experimental investigations for the modelling of reliable performance scenarios. <i>Energy and Buildings</i> , 2011 , 43, 1925-1936	7	150
68	Simulation-based model predictive control by the multi-objective optimization of building energy performance and thermal comfort. <i>Energy and Buildings</i> , 2016 , 111, 131-144	7	134
67	Artificial neural networks to predict energy performance and retrofit scenarios for any member of a building category: A novel approach. <i>Energy</i> , 2017 , 118, 999-1017	7.9	131
66	A new methodology for investigating the cost-optimality of energy retrofiting a building category. <i>Energy and Buildings</i> , 2015 , 107, 456-478	7	130
65	Optimization of building envelope design for nZEBs in Mediterranean climate: Performance analysis of residential case study. <i>Applied Energy</i> , 2016 , 183, 938-957	10.7	119
64	A new methodology for cost-optimal analysis by means of the multi-objective optimization of building energy performance. <i>Energy and Buildings</i> , 2015 , 88, 78-90	7	116
63	Multi-stage and multi-objective optimization for energy retrofiting a developed hospital reference building: A new approach to assess cost-optimality. <i>Applied Energy</i> , 2016 , 174, 37-68	10.7	114
62	Energy retrofit of an educational building in the ancient center of Benevento. Feasibility study of energy savings and respect of the historical value. <i>Energy and Buildings</i> , 2015 , 95, 172-183	7	109
61	Energy retrofit of educational buildings: Transient energy simulations, model calibration and multi-objective optimization towards nearly zero-energy performance. <i>Energy and Buildings</i> , 2017 , 144, 303-319	7	81
60	Design of the Building Envelope: A Novel Multi-Objective Approach for the Optimization of Energy Performance and Thermal Comfort. <i>Sustainability</i> , 2015 , 7, 10809-10836	3.6	79
59	Analysis and diagnosis of the energy performance of buildings and districts: Methodology, validation and development of Urban Energy Maps. <i>Cities</i> , 2013 , 35, 270-283	5.6	69
58	CASA, cost-optimal analysis by multi-objective optimisation and artificial neural networks: A new framework for the robust assessment of cost-optimal energy retrofit, feasible for any building. <i>Energy and Buildings</i> , 2017 , 146, 200-219	7	64
57	Design the refurbishment of historic buildings with the cost-optimal methodology: The case study of a XV century Italian building. <i>Energy and Buildings</i> , 2015 , 99, 162-176	7	57
56	Multi-objective optimization of the renewable energy mix for a building. <i>Applied Thermal Engineering</i> , 2016 , 101, 612-621	5.8	54
55	Resilience of robust cost-optimal energy retrofit of buildings to global warming: A multi-stage, multi-objective approach. <i>Energy and Buildings</i> , 2017 , 153, 150-167	7	54

54	Fluid selection of Organic Rankine Cycle for low-temperature waste heat recovery based on thermal optimization. <i>Energy</i> , 2014 , 72, 159-167	7.9	52
53	A new comprehensive framework for the multi-objective optimization of building energy design: Harlequin. <i>Applied Energy</i> , 2019 , 241, 331-361	10.7	51
52	Rehabilitation of the building envelope of hospitals: Achievable energy savings and microclimatic control on varying the HVAC systems in Mediterranean climates. <i>Energy and Buildings</i> , 2013 , 60, 125-138	7	50
51	Net zero-energy buildings in Germany: Design, model calibration and lessons learned from a case-study in Berlin. <i>Energy and Buildings</i> , 2016 , 133, 688-710	7	48
50	A new comprehensive approach for cost-optimal building design integrated with the multi-objective model predictive control of HVAC systems. <i>Sustainable Cities and Society</i> , 2017 , 31, 136-150	10.1	44
49	Different methods for the modelling of thermal bridges into energy simulation programs: Comparisons of accuracy for flat heterogeneous roofs in Italian climates. <i>Applied Energy</i> , 2012 , 97, 405-418	10.7	38
48	Cool materials for reducing summer energy consumptions in Mediterranean climate: In-lab experiments and numerical analysis of a new coating based on acrylic paint. <i>Applied Thermal Engineering</i> , 2016 , 102, 91-107	5.8	35
47	Simplified state space representation for evaluating thermal bridges in building: Modelling, application and validation of a methodology. <i>Applied Thermal Engineering</i> , 2013 , 61, 344-354	5.8	34
46	Experimental validation of a numerical code by thin film heat flux sensors for the resolution of thermal bridges in dynamic conditions. <i>Applied Energy</i> , 2014 , 124, 213-222	10.7	31
45	Evaporation of refrigerants in a smooth horizontal tube: prediction of R22 and R507 heat transfer coefficients and pressure drop. <i>Applied Thermal Engineering</i> , 2004 , 24, 2189-2206	5.8	30
44	Dynamic insulation of the building envelope: Numerical modeling under transient conditions and coupling with nocturnal free cooling. <i>Applied Thermal Engineering</i> , 2015 , 84, 1-14	5.8	29
43	Combined cooling, heating and power for small urban districts: An Italian case-study. <i>Applied Thermal Engineering</i> , 2014 , 71, 705-713	5.8	28
42	A framework for NZEB design in Mediterranean climate: Design, building and set-up monitoring of a lab-small villa. <i>Solar Energy</i> , 2019 , 184, 11-29	6.8	25
41	MATRIX, a multi activity test-room for evaluating the energy performances of Building/HVAC systems in Mediterranean climate: Experimental set-up and CFD/BPS numerical modeling. <i>Energy and Buildings</i> , 2016 , 126, 424-446	7	24
40	University building: Energy diagnosis and refurbishment design with cost-optimal approach. Discussion about the effect of numerical modelling assumptions. <i>Journal of Building Engineering</i> , 2018 , 18, 1-18	5.2	23
39	A Multi-Criteria Approach to Achieve Constrained Cost-Optimal Energy Retrofits of Buildings by Mitigating Climate Change and Urban Overheating. <i>Climate</i> , 2018 , 6, 37	3.1	22
38	Phase Change Materials for Reducing Cooling Energy Demand and Improving Indoor Comfort: A Step-by-Step Retrofit of a Mediterranean Educational Building. <i>Energies</i> , 2019 , 12, 3661	3.1	21
37	The design of safe classrooms of educational buildings for facing contagions and transmission of diseases: A novel approach combining audits, calibrated energy models, building performance (BPS) and computational fluid dynamic (CFD) simulations. <i>Energy and Buildings</i> , 2021 , 230, 110533	7	18

36	Green Walls, a Critical Review: Knowledge Gaps, Design Parameters, Thermal Performances and Multi-Criteria Design Approaches. <i>Energies</i> , 2020 , 13, 2296	3.1	17
35	A Multi-Step Approach to Assess the Lifecycle Economic Impact of Seismic Risk on Optimal Energy Retrofit. <i>Sustainability</i> , 2017 , 9, 989	3.6	17
34	Experimental investigation and numerical evaluation of adoption of multi-layered wall with vacuum insulation panel for typical Mediterranean climate. <i>Energy and Buildings</i> , 2017 , 152, 108-123	7	14
33	Design and performance analysis of a zero-energy settlement in Greece. <i>International Journal of Low-Carbon Technologies</i> , 2017 , 12, 141-161	2.8	14
32	Addressing Large-Scale Energy Retrofit of a Building Stock via Representative Building Samples: Public and Private Perspectives. <i>Sustainability</i> , 2017 , 9, 940	3.6	14
31	Concept, Design and Energy Performance of a Net Zero-Energy Building in Mediterranean Climate. <i>Procedia Engineering</i> , 2016 , 169, 26-37		14
30	Acrylic white paint of industrial sector for cool roofing application: Experimental investigation of summer behavior and aging problem under Mediterranean climate. <i>Solar Energy</i> , 2018 , 169, 468-487	6.8	14
29	NZEB target for existing buildings: case study of historical educational building in Mediterranean climate. <i>Energy Procedia</i> , 2017 , 140, 194-206	2.3	13
28	Methodology of the cost-optimality for improving the indoor thermal environment during the warm season. Presentation of the method and application to a new multi-storey building in Berlin. <i>Applied Energy</i> , 2017 , 185, 1529-1541	10.7	11
27	Experimental and numerical evaluations on the energy penalty of reflective roofs during the heating season for Mediterranean climate. <i>Energy</i> , 2018 , 144, 178-199	7.9	11
26	Performance Assessment of a Solar-Assisted Desiccant-Based Air Handling Unit Considering Different Scenarios. <i>Energies</i> , 2016 , 9, 724	3.1	10
25	Numerical optimization for the design of living walls in the Mediterranean climate. <i>Energy Conversion and Management</i> , 2019 , 195, 573-586	10.6	8
24	Multi-layered wall with vacuum insulation panels: Results of 5-years in-field monitoring and numerical analysis of aging effect on building consumptions. <i>Applied Energy</i> , 2020 , 278, 115605	10.7	8
23	Light and Heavy Energy Refurbishments of Mediterranean Offices. Part II: Cost-optimal Energy Renovation of an Institutional Building. <i>Procedia Engineering</i> , 2017 , 180, 1518-1530		7
22	A Novel Contribution for Resilient Buildings. Theoretical Fragility Curves: Interaction between Energy and Structural Behavior for Reinforced Concrete Buildings. <i>Buildings</i> , 2020 , 10, 194	3.2	6
21	Impact of weather data and climate change projections in the refurbishment design of residential buildings in cooling dominated climate. <i>Applied Energy</i> , 2021 , 303, 117584	10.7	6
20	The impact of weather data sources on building energy retrofit design: case study in heating-dominated climate of Italian backcountry. <i>Journal of Building Performance Simulation</i> , 2020 , 13, 264-284	2.8	5
19	Hygro-thermal performance of an opaque ventilated façade with recycled materials during wintertime. <i>Energy and Buildings</i> , 2021 , 245, 110994	7	5

18	Comprehensive analysis to drive the energy retrofit of a neighborhood by optimizing the solar energy exploitation [An Italian case study. <i>Journal of Cleaner Production</i> , 2021 , 314, 127998	10.3	5
17	Transient heat transfer through walls and thermal bridges. Numerical modelling: Methodology and validation 2012 ,		4
16	Energy Audit of Health Care Facilities: Dynamic Simulation of Energy Performances and Energy-Oriented Refurbishment of System and Equipment for Microclimatic Control. <i>American Journal of Engineering and Applied Sciences</i> , 2016 , 9, 814-834	0.4	3
15	Building Envelope, HVAC Systems and RESs for the Energy Retrofit of a Conference Hall on Naples Promenade. <i>Energy Procedia</i> , 2015 , 75, 1261-1268	2.3	3
14	Environmentally friendly opaque ventilated façade for wall retrofit: One year of in-field analysis in Mediterranean climate. <i>Solar Energy</i> , 2021 , 228, 495-515	6.8	3
13	A Holistic Approach for Energy Renovation of the Town Hall Building in a Typical Small City of Southern Italy. <i>Sustainability</i> , 2020 , 12, 7699	3.6	2
12	Light and Heavy Energy Refurbishments of Mediterranean Offices. Part I: Energy Audit of an Institutional Building on the Naples Coast. <i>Procedia Engineering</i> , 2017 , 180, 1506-1517		2
11	Thermal Dynamic Insulation: Numerical Modeling in a Transient Regime and Application to Alternative Aviary Houses. <i>Energy Procedia</i> , 2015 , 75, 1711-1721	2.3	2
10	Effect of HVAC Management on Indoor Thermo-Hygrometric Comfort and Energy Balance: In Situ Assessments on a Real nZEB. <i>Energies</i> , 2021 , 14, 7187	3.1	2
9	Numerical Investigation of a Thermal Ablation Porous Media-Based Model for Tumoral Tissue with Variable Porosity. <i>Computation</i> , 2021 , 9, 50	2.2	2
8	Multi-Disciplinary Analysis of Light Shelves Application within a Student Dormitory Refurbishment. <i>Sustainability</i> , 2021 , 13, 8251	3.6	2
7	Miniaturization of Energy Conversion Systems: Energetic Analysis 2005 ,		1
6	Energy Performance of Buildings: improvements, limits and future perspectives during the last twenty years of energy and sustainability policies 2021 ,		1
5	Effect of Climate Changes on Renewable Production in the Mediterranean Climate: Case Study of the Energy Retrofit for a Detached House. <i>Sustainability</i> , 2021 , 13, 8793	3.6	1
4	Resilience to the climate change of nearly zero energy-building designed according to the EPBD recast: Monitoring, calibrated energy models and perspective simulations of a Mediterranean nZEB living lab. <i>Energy and Buildings</i> , 2022 , 262, 112004	7	1
3	Evaluation of Comfort Models Considering the Peculiarities of Hospitalization: Bedding, Clothing and Reduced Activity of Patients. <i>Buildings</i> , 2022 , 12, 343	3.2	0
2	Experimental Comparison of Heating Emitters in Mediterranean Climate. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5462	2.6	
1	Experimental analysis of grills configuration for an open joint ventilated facade in summertime. <i>Journal of Building Engineering</i> , 2022 , 54, 104608	5.2	

