

Vitor Leal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1627102/publications.pdf>

Version: 2024-02-01

51
papers

1,749
citations

257101

24
h-index

276539

41
g-index

51
all docs

51
docs citations

51
times ranked

2055
citing authors

#	ARTICLE	IF	CITATIONS
1	Building envelope shape design in early stages of the design process: Integrating architectural design systems and energy simulation. <i>Automation in Construction</i> , 2013, 32, 196-209.	4.8	136
2	Energy sustainability indicators for local energy planning: Review of current practices and derivation of a new framework. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2723-2735.	8.2	127
3	A methodology for economic efficient design of Net Zero Energy Buildings. <i>Energy and Buildings</i> , 2012, 55, 765-778.	3.1	122
4	Occupants interaction with electric lighting and shading systems in real single-occupied offices: Results from a monitoring campaign. <i>Building and Environment</i> , 2013, 64, 152-168.	3.0	102
5	The relevance of the energy resource dynamics in the mid/long-term energy planning models. <i>Renewable Energy</i> , 2011, 36, 3068-3074.	4.3	100
6	Influence of shading control patterns on the energy assessment of office spaces. <i>Energy and Buildings</i> , 2012, 50, 35-48.	3.1	85
7	Urban Form and Energy Demand. <i>Journal of Planning Literature</i> , 2017, 32, 346-365.	2.2	75
8	Recent progress on net zero energy buildings. <i>Advances in Building Energy Research</i> , 2011, 5, 129-162.	1.1	67
9	Measurement of air temperature in the presence of a large radiant flux: an assessment of assively ventilated thermometer screens. <i>Boundary-Layer Meteorology</i> , 2005, 114, 205-231.	1.2	63
10	Modelling the relationship between heating energy use and indoor temperatures in residential buildings through Artificial Neural Networks considering occupant behavior. <i>Energy and Buildings</i> , 2017, 151, 332-343.	3.1	61
11	Energy vs. ventilation rate in buildings: A comprehensive scenario-based assessment in the European context. <i>Energy and Buildings</i> , 2012, 54, 111-121.	3.1	60
12	Envelope-related energy demand: A design indicator of energy performance for residential buildings in early design stages. <i>Energy and Buildings</i> , 2013, 61, 215-223.	3.1	59
13	Characterization of thermal performance and nominal heating gap of the residential building stock using the EPBD-derived databases: The case of Portugal mainland. <i>Energy and Buildings</i> , 2014, 70, 167-179.	3.1	52
14	Impact of using cool paints on energy demand and thermal comfort of a residential building. <i>Applied Thermal Engineering</i> , 2014, 65, 273-281.	3.0	50
15	A methodology for sustainable and inclusive local energy planning. <i>Sustainable Cities and Society</i> , 2015, 17, 110-121.	5.1	44
16	A sustainability assessment of advanced materials for novel housing solutions. <i>Building and Environment</i> , 2015, 92, 182-191.	3.0	38
17	Predicting and characterizing indoor temperatures in residential buildings: Results from a monitoring campaign in Northern Portugal. <i>Energy and Buildings</i> , 2016, 119, 293-308.	3.1	37
18	A spatially-explicit methodological framework based on neural networks to assess the effect of urban form on energy demand. <i>Applied Energy</i> , 2017, 202, 386-398.	5.1	37

#	ARTICLE	IF	CITATIONS
19	Comparison of passive cooling techniques in improving thermal comfort of occupants of a pre-fabricated building. <i>Energy and Buildings</i> , 2016, 120, 30-44.	3.1	34
20	Technical and economic feasibility of sustainable heating and cooling supply options in southern European municipalities-A case study for Matosinhos, Portugal. <i>Energy</i> , 2018, 153, 311-323.	4.5	32
21	A scenario-based approach for assessing the energy performance of urban development pathways. <i>Sustainable Cities and Society</i> , 2018, 40, 372-382.	5.1	31
22	A general indirect representation for optimization of generative design systems by genetic algorithms: Application to a shape grammar-based design system. <i>Automation in Construction</i> , 2013, 35, 374-382.	4.8	26
23	Setting targets for local energy planning: Critical assessment and a new approach. <i>Sustainable Cities and Society</i> , 2016, 26, 421-428.	5.1	26
24	Occupants'™ behaviour in energy simulation tools: lessons from a field monitoring campaign regarding lighting and shading control. <i>Journal of Building Performance Simulation</i> , 2015, 8, 338-358.	1.0	25
25	“SOLVENT” development of a reversible solar-screen glazing system. <i>Energy and Buildings</i> , 2004, 36, 467-480.	3.1	24
26	Strategies to control daylight in a responsive skylight system. <i>Automation in Construction</i> , 2012, 28, 91-105.	4.8	24
27	Methodologies for the evaluation of local climate change mitigation actions: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 681-690.	8.2	23
28	Lifecycle Cost Analysis of Prefabricated Composite and Masonry Buildings: Comparative Study. <i>Journal of Architectural Engineering</i> , 2018, 24, .	0.8	21
29	Thermochromic Paints on External Surfaces: Impact Assessment for a Residential Building through Thermal and Energy Simulation. <i>Energies</i> , 2020, 13, 1912.	1.6	18
30	The role of the PASLINK test cell in the modelling and integrated simulation of an innovative window. <i>Building and Environment</i> , 2008, 43, 217-227.	3.0	17
31	A multi-objective approach for developing national energy efficiency plans. <i>Energy Policy</i> , 2014, 67, 16-27.	4.2	16
32	A Review of the Relation between Household Indoor Temperature and Health Outcomes. <i>Energies</i> , 2020, 13, 2881.	1.6	16
33	Energy and economic analysis of building retrofit and energy offset scenarios for Net Zero Energy Buildings. <i>Advances in Building Energy Research</i> , 2015, 9, 120-139.	1.1	13
34	Analysis of the relationship between local climate change mitigation actions and greenhouse gas emissions “ Empirical insights. <i>Energy Policy</i> , 2017, 111, 204-213.	4.2	11
35	Pre-fabricated, environmentally friendly and energy self-sufficient single-family house in Kenya. <i>Journal of Cleaner Production</i> , 2017, 142, 2100-2113.	4.6	10
36	Uncovering the multiple objectives behind national energy efficiency planning. <i>Energy Policy</i> , 2013, 54, 230-239.	4.2	9

#	ARTICLE	IF	CITATIONS
37	A review of energy planning practices of members of the Economic Community of West African States. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 202-220.	8.2	8
38	Modelling the SOLVENT ventilated window for whole building simulation. <i>Building Services Engineering Research and Technology</i> , 2004, 25, 183-195.	0.9	7
39	Total Solar Reflectance Optimization of the External Paint Coat in Residential Buildings Located in Mediterranean Climates. <i>Energies</i> , 2020, 13, 2729.	1.6	7
40	A multi-criteria evaluation framework for alternative light-duty vehicles technologies. <i>International Journal of Multicriteria Decision Making</i> , 2011, 1, 230.	0.1	6
41	Energy Policy Concerns, Objectives and Indicators: A Review towards a Framework for Effectiveness Assessment. <i>Energies</i> , 2020, 13, 6533.	1.6	6
42	Identification of objectives for national energy planning in developing countries. <i>Energy Strategy Reviews</i> , 2018, 21, 218-232.	3.3	5
43	Health and Housing Energy Expenditures: A Two-Part Model Approach. <i>Processes</i> , 2021, 9, 943.	1.3	4
44	Buildings Energy Efficiency and Innovative Energy Systems. <i>Energies</i> , 2021, 14, 5092.	1.6	3
45	Analysis of Renewable Energy Policies through Decision Trees. <i>Sustainability</i> , 2022, 14, 7720.	1.6	3
46	Factors That Contribute to Changes in Local or Municipal GHG Emissions: A Framework Derived from a Systematic Literature Review. <i>Energies</i> , 2020, 13, 3205.	1.6	2
47	A new tilted strips external thermal insulation composite system (TiS-ETICS): Description and performance assessment through thermal and energy simulation for a residential building. <i>Journal of Building Engineering</i> , 2021, 38, 101953.	1.6	2
48	An exploratory study on energy sustainability indicators for local energy planning. <i>WIT Transactions on Ecology and the Environment</i> , 2009, , .	0.0	2
49	PoDIT: Portable Device for Indoor Temperature Stabilization: Concept and Theoretical Performance Assessment. <i>Energies</i> , 2020, 13, 5982.	1.6	1
50	A Review of the Measures and Instruments to Promote Efficiency and Renewable Energy in Domestic Water Heating. <i>Energies</i> , 2020, 13, 5370.	1.6	1
51	Decomposition Analysis of the Evolution of the Local Energy System as a Tool to Assess the Effect of Local Actions: Methodology and Example of MalmÅr, Sweden. <i>Energies</i> , 2021, 14, 461.	1.6	1