Sergio Vera

List of Publications by Year
in descending order

44 papers	925 citations	471371 17 h-index	477173 29 g-index
45 all docs	45 docs citations	45 times ranked	719 citing authors

#	Article	IF	Citations
1	Analysis of Net Zero Energy Buildings public policies at the residential building sector: A comparison between Chile and selected countries. Energy Policy, 2022, 161, 112707.	4.2	10
2	Cooling potential of greenery systems for a stand-alone retail building under semiarid and humid subtropical climates. Energy and Buildings, 2022, 259, 111897.	3.1	10
3	A quantitative and qualitative evaluation of the sustainability of industrialised building systems: A bibliographic review and analysis of case studies. Renewable and Sustainable Energy Reviews, 2022, 157, 112034.	8.2	13
4	Evaluation of view clarity through solar shading fabrics. Building and Environment, 2022, 212, 108750.	3.0	7
5	Integration of energy and seismic-structural design variables through the optimization of a multi-story residential light-frame timber building with different seismic lateral connectors and building stories. Journal of Building Engineering, 2022, 57, 104831.	1.6	2
6	Effects of biodiversity in green roofs and walls on the capture of fine particulate matter. Urban Forestry and Urban Greening, 2021, 63, 127229.	2.3	14
7	Green roofs and green walls layouts for improved urban air quality by mitigating particulate matter. Building and Environment, 2021, 204, 108120.	3.0	52
8	Assessment of the Effect of Phase Change Material (PCM) Glazing on the Energy Consumption and Indoor Comfort of an Office in a Semiarid Climate. Applied Sciences (Switzerland), 2021, 11, 9597.	1.3	14
9	Improved balance between compressive strength and thermal conductivity of insulating and structural lightweight concretes for low rise construction. Construction and Building Materials, 2020, 247, 118448.	3.2	14
10	Multi-objective optimization to balance thermal comfort and energy use in a mining camp located in the Andes Mountains at high altitude. Energy, 2020, 199, 117121.	4.5	8
11	Analysis and comparison of two vegetative roof heat and mass transfer models in three different climates. Energy and Buildings, 2019, 202, 109367.	3.1	7
12	Impact of different control strategies of perforated curved louvers on the visual comfort and energy consumption of office buildings in different climates. Solar Energy, 2019, 190, 495-510.	2.9	39
13	Potential of perforated exterior louvers to improve the comfort and energy performance of an office space in different climates. Building Simulation, 2018, 11, 695-708.	3.0	13
14	Potential of Particle Matter Dry Deposition on Green Roofs and Living Walls Vegetation for Mitigating Urban Atmospheric Pollution in Semiarid Climates. Sustainability, 2018, 10, 2431.	1.6	66
15	A critical review of heat and mass transfer in vegetative roof models used in building energy and urban environment simulation tools. Applied Energy, 2018, 232, 752-764.	5.1	36
16	Using a Hydrological Model to Simulate the Performance and Estimate the Runoff Coefficient of Green Roofs in Semiarid Climates. Water (Switzerland), 2018, 10, 198.	1.2	26
17	Diagnosis of Sustainable Business Strategies Implemented by Chilean Construction Companies. Sustainability, 2018, 10, 82.	1.6	8
18	Experimental study on the stomatal resistance of green roof vegetation of semiarid climates for building energy simulations. , 2018, , .		4

#	Article	IF	Citations
19	Impact of the substrate thermal inertia on the thermal behaviour of an extensive vegetative roof in a semiarid climate. , 2018, , .		1
20	Influence of vegetation, substrate, and thermal insulation of an extensive vegetated roof on the thermal performance of retail stores in semiarid and marine climates. Energy and Buildings, 2017, 146, 312-321.	3.1	49
21	An integrated thermal and lighting simulation tool to support the design process of complex fenestration systems for office buildings. Applied Energy, 2017, 198, 36-48.	5.1	35
22	Porous Media Characterization to Simulate Water and Heat Transport through Green Roof Substrates. Vadose Zone Journal, 2017, 16, 1-14.	1.3	23
23	Assessing and understanding the interaction between mechanical and thermal properties in concrete for developing a structural and insulating material. Construction and Building Materials, 2017, 132, 353-364.	3.2	18
24	A model for simulating the performance and irrigation of green stormwater facilities at residential scales in semiarid and Mediterranean regions. Environmental Modelling and Software, 2017, 95, 246-257.	1.9	16
25	Optimization of a fixed exterior complex fenestration system considering visual comfort and energy performance criteria. Building and Environment, 2017, 113, 163-174.	3.0	54
26	Seasonal optimization of a fixed exterior complex fenestration system considering visual comfort and energy performance criteria. Energy Procedia, 2017, 132, 490-495.	1.8	6
27	Effect of substrate depth and roof layers on green roof temperature and water requirements in a semi-arid climate. Ecological Engineering, 2016, 97, 624-632.	1.6	42
28	A flexible and time-efficient schedule-based communication tool for integrated lighting and thermal simulations of spaces with controlled artificial lighting and complex fenestration systems. Journal of Building Performance Simulation, 2016, 9, 382-396.	1.0	11
29	Thermal and Lighting Performance of 5 Complex Fenestration Systems in a Semiarid Climate of Chile. Energy Procedia, 2015, 78, 2494-2499.	1.8	4
30	EvaluaciÃ³n de modelos de turbulencia para predecir los flujos de masa de aire interzonas a travÃ©s de una abertura de escalera para la convecciÃ³n natural y mixta en los edificios. Revista Ingenieria De Construccion, 2015, 30, 85-97.	0.4	4
31	Evaluation of radiance's genBSDF capability to assess solar bidirectional properties of complex fenestration systems. Journal of Building Performance Simulation, 2015, 8, 216-225.	1.0	31
32	Experimental Study of the Thermal Performance of Living Walls Under Semiarid Climatic Conditions. Energy Procedia, 2015, 78, 3416-3421.	1.8	25
33	Impact of the Properties of a Green Roof Substrate on its Hydraulic and Thermal Behavior. Energy Procedia, 2015, 78, 1177-1182.	1.8	16
34	Influence of Plant and Substrate Characteristics of Vegetated Roofs on a Supermarket Energy Performance Located in a Semiarid Climate. Energy Procedia, 2015, 78, 1171-1176.	1.8	22
35	ModelaciÃ³n CFD de casos bÃ¡sicos de convecciÃ³n en ambientes cerrados: Necesidades de principiantes en CFD para adquirir habilidades y confianza en la modelaciÃ³n CFD. Revista Ingenieria De Construccion, 2014, 29, 22-45.	0.4	5
36	Solar and Lighting Transmission through Complex Fenestration Systems of Office Buildings in a Warm and Dry Climate of Chile. Sustainability, 2014, 6, 2786-2801.	1.6	17

#	Article	IF	Citations
37	Mixed convective heat transfer through a horizontal opening in a full-scale, two-story test-hut. Applied Thermal Engineering, 2014, 64, 499-507.	3.0	1
38	AWARENESS, ACTIONS, DRIVERS AND BARRIERS OF SUSTAINABLE CONSTRUCTION IN CHILE. Technological and Economic Development of Economy, 2013, 19, 272-288.	2.3	121
39	Assessment of fire reaction and fire resistance of Guadua angustifolia kunth bamboo. Construction and Building Materials, 2012, 27, 60-65.	3.2	48
40	Interzonal air and moisture transport through large horizontal openings in a full-scale two-story test-hut: Part 1 â€“ Experimental study. Building and Environment, 2010, 45, 1192-1201.	3.0	8
41	Interzonal air and moisture transport through large horizontal openings in a full-scale two-story test-hut: Part 2 â€“ CFD study. Building and Environment, 2010, 45, 622-631.	3.0	16
42	Evaluation of Hexahydrated Magnesium Chloride Performance as Chemical Stabilizer of Granular Road Surfaces. Transportation Research Record, 2003, 1819, 44-51.	1.0	8
43	Modelling and Validation of two Heat and Mass Transfer Model of Living Walls and Evaluation of Their Impact on the Energy Performance of a Supermarket in a Semiarid Climate. , 0, , .		0
44	Potential of Mid-Rise Social Residential Buildings to Reach Net Zero Energy Building Standard in Two Different Climates of Chile. , 0, , .		0