Alejandro Josa

List of Publications by Year
in descending order

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67	4,749	126858	98753
papers	citations	33 h-index	67 g-index

67	67	67	3359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Building-integrated greenhouses raise energy co-benefits through active ventilation systems. Building and Environment, 2022, 208, 108585.	3.0	13
2	Urban greenhouse covering materials: Assessing environmental impacts and crop yields effects. Resources, Conservation and Recycling, 2022, 186, 106527.	5.3	7
3	3D modelling of strip reinforced MSE walls. Acta Geotechnica, 2021, 16, 711-730.	2.9	15
4	Building-integrated agriculture: Are we shifting environmental impacts? AnÂenvironmental assessment and structural improvement of urban greenhouses. Resources, Conservation and Recycling, 2021, 169, 105526.	5.3	23
5	Perceptions on barriers and opportunities for integrating urban agri-green roofs: A European Mediterranean compact city case. Cities, 2021, 114, 103196.	2.7	18
6	Potential Key Factors, Policies, and Barriers for Rooftop Agriculture in EU Cities: Barcelona, Berlin, Bologna, and Paris. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	5
7	Assessment of the food-water-energy nexus suitability of rooftops. A methodological remote sensing approach in an urban Mediterranean area. Sustainable Cities and Society, 2021, 75, 103287.	5.1	16
8	Environmental analysis of concrete deep foundations: Influence of prefabrication, concrete strength, and design codes. Journal of Cleaner Production, 2020, 244, 118751.	4.6	10
9	Applying nutrient dynamics to adjust the nutrient-water balance in hydroponic crops. A case study with open hydroponic tomato crops from Barcelona. Scientia Horticulturae, 2020, 261, 108908.	1.7	19
10	Laboratory-based spectral data acquisition of roof materials. International Journal of Remote Sensing, 2020, 41, 9180-9205.	1.3	2
11	Quantifying energy symbiosis of building-integrated agriculture in a mediterranean rooftop greenhouse. Renewable Energy, 2020, 156, 696-709.	4.3	28
12	Feasibility assessment of rooftop greenhouses in Latin America. The case study of a social neighborhood in Quito, Ecuador. Urban Forestry and Urban Greening, 2019, 44, 126389.	2.3	15
13	Environmental effects of using different construction codes applied to reinforced concrete beam designs based on Model Code 2010 and Spanish Standard EHE-08. Engineering Structures, 2019, 179, 438-447.	2.6	3
14	Towards Productive Cities: Environmental Assessment of the Foodâ€Energyâ€Water Nexus of the Urban Roof Mosaic. Journal of Industrial Ecology, 2019, 23, 767-780.	2.8	55
15	Ecological network analysis of growing tomatoes in an urban rooftop greenhouse. Science of the Total Environment, 2019, 651, 1495-1504.	3.9	42
16	Rooftop greenhouses in educational centers: A sustainability assessment of urban agriculture in compact cities. Science of the Total Environment, 2018, 626, 1319-1331.	3.9	41
17	Environmental assessment of an integrated rooftop greenhouse for food production in cities. Journal of Cleaner Production, 2018, 177, 326-337.	4.6	113
18	Environmental analysis of building shallow foundations: The influence of prefabrication, typology, and structural design codes. Journal of Cleaner Production, 2018, 186, 407-417.	4.6	21

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19	Social perception of urban agriculture in Latin-America. A case study in Mexican social housing. Land Use Policy, 2018, 76, 719-734.	2.5	33
20	Sustainability assessment of earth-retaining wall structures. Environmental Geotechnics, 2018, 5, 187-203.	1.3	41
21	Addressing the Life Cycle of Sewers in Contrasting Cities through an Ecoâ€Efficiency Approach. Journal of Industrial Ecology, 2018, 22, 1092-1104.	2.8	10
22	Life cycle and hydrologic modeling of rainwater harvesting in urban neighborhoods: Implications of urban form and water demand patterns in the US and Spain. Science of the Total Environment, 2018, 621, 434-443.	3.9	36
23	Improving the Metabolism and Sustainability of Buildings and Cities Through Integrated Rooftop Greenhouses (i-RTG). Sustainable Development and Biodiversity, 2018, , 53-72.	1.4	4
24	Floods and consequential life cycle assessment: Integrating flood damage into the environmental assessment of stormwater Best Management Practices. Journal of Cleaner Production, 2017, 162, 601-608.	4.6	69
25	Urban planning and agriculture. Methodology for assessing rooftop greenhouse potential of non-residential areas using airborne sensors. Science of the Total Environment, 2017, 601-602, 493-507.	3.9	45
26	Urban rainwater runoff quantity and quality â€“ A potential endogenous resource in cities?. Journal of Environmental Management, 2017, 189, 14-21.	3.8	65
27	Are we preventing flood damage eco-efficiently? An integrated method applied to post-disaster emergency actions. Science of the Total Environment, 2017, 580, 873-881.	3.9	16
28	Environmental performance of rainwater harvesting strategies in Mediterranean buildings. International Journal of Life Cycle Assessment, 2017, 22, 398-409.	2.2	22
29	Building-integrated rooftop greenhouses: An energy and environmental assessment in the mediterranean context. Applied Energy, 2017, 187, 338-351.	5.1	110
30	Environmental assessment of earth retaining wall structures. Environmental Geotechnics, 2017, 4, 415-431.	1.3	48
31	Environmental Impact of Public Charging Facilities for Electric Twoâ€Wheelers. Journal of Industrial Ecology, 2016, 20, 54-66.	2.8	16
32	Integrated Structural Analysis and Life Cycle Assessment of Equivalent Trench-Pipe Systems for Sewerage. Water Resources Management, 2016, 30, 1117-1130.	1.9	24
33	Multi-Criteria Decision Making in the sustainability assessment of sewerage pipe systems. Journal of Cleaner Production, 2016, 112, 4762-4770.	4.6	82
34	Development of urban solar infrastructure to support low-carbon mobility. Energy Policy, 2015, 85, 102-114.	4.2	13
35	LCA of recycled and conventional concretes designed using the Equivalent Mortar Volume and classic methods. Construction and Building Materials, 2015, 84, 245-252.	3.2	64
36	Assessing the Energetic and Environmental Impacts of the Operation and Maintenance of Spanish Sewer Networks from a Life-Cycle Perspective. Water Resources Management, 2015, 29, 2581-2597.	1.9	12

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37	BI-LAYER DIAPHRAGM WALLS: STRUCTURAL AND SECTIONAL ANALYSIS. Journal of Civil Engineering and Management, 2015, 22, 645-654.	1.9	1
38	Environmental and economic assessment of a pilot stormwater infiltration system for flood prevention in Brazil. Ecological Engineering, 2015, 84, 194-201.	1.6	22
39	Environmental and geometric optimisation of cylindrical drinking water storage tanks. International Journal of Life Cycle Assessment, 2015, 20, 1612-1624.	2.2	10
40	Environmental assessment of drinking water transport and distribution network use phase for small to medium-sized municipalities in Spain. Journal of Cleaner Production, 2015, 87, 573-582.	4.6	17
41	Numerical Analysis of an Instrumented Steel-Reinforced Soil Wall. International Journal of Geomechanics, 2015, 15, .	1.3	55
42	Life Cycle Management Applied to Urban Fabric Planning. LCA Compendium, 2015, , 307-317.	0.8	1
43	Numerical study of the influence of foundation compressibility and reinforcement stiffness on the behavior of reinforced soil walls. International Journal of Geotechnical Engineering, 2014, 8, 247-259.	1.1	41
44	Life cycle inventory analysis of granite production from cradle to gate. International Journal of Life Cycle Assessment, 2014, 19, 153-165.	2.2	38
45	Environmental Assessment of Sewer Construction in Small to Medium Sized Cities Using Life Cycle Assessment. Water Resources Management, 2014, 28, 979-997.	1.9	47
46	Bi-layer diaphragm walls: Parametric study of construction processes. Engineering Structures, 2014, 59, 608-618.	2.6	6
47	Environmental management of granite slab production fromÂanÂindustrial ecology standpoint. Journal of Cleaner Production, 2014, 84, 619-628.	4.6	35
48	Environmental assessment of different pipelines for drinking water transport and distribution network in small to medium cities: a case from Betanzos, Spain. Journal of Cleaner Production, 2014, 66, 588-598.	4.6	40
49	Plugrisost: a model for design, economic cost and environmental analysis of rainwater harvesting in urban systems. Water Practice and Technology, 2014, 9, 243-255.	1.0	10
50	Comparative LCA of sewage sludge valorisation as both fuel and raw material substitute in clinker production. Journal of Cleaner Production, 2013, 51, 205-213.	4.6	87
51	Vertical-Facing Loads in Steel-Reinforced Soil Walls. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1419-1432.	1.5	37
52	Bi-layer diaphragm walls: Experimental and numerical structural analysis. Engineering Structures, 2013, 56, 154-164.	2.6	9
53	Sustainability Assessment of Concrete Structures within the Spanish Structural Concrete Code. Journal of Construction Engineering and Management - ASCE, 2012, 138, 268-276.	2.0	86
54	Life cycle assessment of granite application in sidewalks. International Journal of Life Cycle Assessment, 2012, 17, 580-592.	2.2	29

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55	Planning strategies for promoting environmentally suitable pedestrian pavements in cities. Transportation Research, Part D: Transport and Environment, 2012, 17, 442-450.	3.2	27
56	Implementation of best available techniques in cement manufacturing: a life-cycle assessment study. Journal of Cleaner Production, 2012, 25, 60-67.	4.6	150
57	Environmental analysis of rainwater harvesting infrastructures in diffuse and compact urban models of Mediterranean climate. International Journal of Life Cycle Assessment, 2012, 17, 25-42.	2.2	106
58	A Value Function for Assessing Sustainability: Application to Industrial Buildings. Sustainability, 2011, 3, 35-50.	1.6	115
59	The GWP-Chart: An environmental tool for guiding urban planning processes. Application to concrete sidewalks. Cities, 2011, 28, 245-250.	2.7	23
60	Environmental optimization of concrete sidewalks in urban areas. International Journal of Life Cycle Assessment, 2009, 14, 302-312.	2.2	43
61	Comparison between laboratory and field leachability of MSWI bottom ash as a road material. Science of the Total Environment, 2008, 389, 10-19.	3.9	64
62	Comparative analysis of the life cycle impact assessment of available cement inventories in the EU. Cement and Concrete Research, 2007, 37, 781-788.	4.6	144
63	Assessment of soil and groundwater impacts by treated urban wastewater reuse. A case study: Application in a golf course (Girona, Spain). Science of the Total Environment, 2007, 374, 26-35.	3.9	118
64	Comparative analysis of available life cycle inventories of cement in the EU. Cement and Concrete Research, 2004, 34, 1313-1320.	4.6	125
65	Fatigue behavior of polymer-modified porous concretes. Cement and Concrete Research, 1999, 29, 1077-1083.	4.6	58
66	A constitutive model for partially saturated soils. Geotechnique, 1990, 40, 405-430.	2.2	1,995
67	Negative skin friction on piles: a simplified analysis and prediction procedure. Geotechnique, 1984, 34, 341-357.	2.2	54