Alessio Mastrucci

List of Publications by Year
in descending order

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27 papers	1,556 citations	489802 18 h-index	651938 25 g-index
27 all docs	27 docs citations	27 times ranked	1921 citing authors

#	Article	IF	Citations
1	Cool roofs can mitigate cooling energy demand for informal settlement dwellers. Renewable and Sustainable Energy Reviews, 2022, 159, 112183.	8.2	18
2	Assessing the potential of decarbonizing China's building construction by 2060 and synergy with industry sector. Journal of Cleaner Production, 2022, 359, 132086.	4.6	40
3	A Future Outlook of Narratives for the Built Environment in Japan. Sustainability, 2021, 13, 1653.	1.6	4
4	Swimming pool thermal energy storage, an alternative for distributed cooling energy storage. Energy Conversion and Management, 2021, 230, 113796.	4.4	16
5	Global scenarios of household access to modern energy services under climate mitigation policy. Nature Energy, 2021, 6, 824-833.	19.8	29
6	Future cooling gap in shared socioeconomic pathways. Environmental Research Letters, 2021, 16, 094053.	2.2	19
7	Decent living gaps and energy needs around the world. Environmental Research Letters, 2021, 16, 095006.	2.2	53
8	Global scenarios of residential heating and cooling energy demand and CO2 emissions. Climatic Change, 2021, 168, 1.	1.7	28
9	A Framework for Modelling Consumption-Based Energy Demand and Emission Pathways. Environmental Science & Technology, 2020, 54, 1799-1807.	4.6	21
10	A spatio-temporal life cycle assessment framework for building renovation scenarios at the urban scale. Renewable and Sustainable Energy Reviews, 2020, 126, 109834.	8.2	38
11	Bridging Indiaâ€™s housing gap: lowering costs and CO₂ emissions. Building Research and Information, 2019, 47, 8-23.	2.0	18
12	Improving the SDG energy poverty targets: Residential cooling needs in the Global South. Energy and Buildings, 2019, 186, 405-415.	3.1	93
13	Energy requirements for decent living in India, Brazil and South Africa. Nature Energy, 2019, 4, 1025-1032.	19.8	107
14	The MESSAGE Integrated Assessment Model and the ix modeling platform (ixmp): An open framework for integrated and cross-cutting analysis of energy, climate, the environment, and sustainable development. Environmental Modelling and Software, 2019, 112, 143-156.	1.9	114
15	Applying LCA to Estimate Development Energy Needs: The Cases of India and Brazil. , 2018, , 397-406.		0
16	Characterisation of domestic hot water end-uses for integrated urban thermal energy assessment and optimisation. Applied Energy, 2017, 186, 152-166.	5.1	51
17	Life Cycle Assessment of building stocks from urban to transnational scales: A review. Renewable and Sustainable Energy Reviews, 2017, 74, 316-332.	8.2	125
18	Global sensitivity analysis as a support for the generation of simplified building stock energy models. Energy and Buildings, 2017, 149, 368-383.	3.1	36

#	Article	IF	Citations
19	Decent housing in the developing world: Reducing life-cycle energy requirements. Energy and Buildings, 2017, 152, 629-642.	3.1	25
20	Geospatial characterization of building material stocks for the life cycle assessment of end-of-life scenarios at the urban scale. Resources, Conservation and Recycling, 2017, 123, 54-66.	5.3	104
21	Heat Demand Estimation for Different Building Types at Regional Scale Considering Building Parameters and Urban Topography. Energy Procedia, 2015, 78, 3403-3409.	1.8	10
22	Combining GIS-based statistical and engineering urban heat consumption models: Towards a new framework for multi-scale policy support. Energy and Buildings, 2015, 107, 204-212.	3.1	119
23	Towards a Comprehensive Approach to Sustainable Urban Planning: Integrated Estimation of Housing Electricity Consumption and Photovoltaic Generation Potential Using the web-based framework iGUESSÂ®. , 2015, , 791-800.		0
24	Estimating energy savings for the residential building stock of an entire city: A GIS-based statistical downscaling approach applied to Rotterdam. Energy and Buildings, 2014, 75, 358-367.	3.1	185
25	Life cycle assessment approach for the optimization of sustainable building envelopes: An application on solar wall systems. Building and Environment, 2012, 58, 278-288.	3.0	107
26	Trombe wall management in summer conditions: An experimental study. Solar Energy, 2012, 86, 2839-2851.	2.9	65
27	The behaviour of solar walls in residential buildings with different insulation levels: An experimental and numerical study. Energy and Buildings, 2012, 47, 217-229.	3.1	131