

# Andr F P Lucena

## 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.

67  
papers

1,695  
citations

23  
h-index

39  
g-index

69  
ext. papers

2,045  
ext. citations

7.4  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
67	Energy sector vulnerability to climate change: A review. <i>Energy</i> , <b>2012</b> , 38, 1-12	7.9	299
66	The vulnerability of renewable energy to climate change in Brazil. <i>Energy Policy</i> , <b>2009</b> , 37, 879-889	7.2	133
65	The threat of political bargaining to climate mitigation in Brazil. <i>Nature Climate Change</i> , <b>2018</b> , 8, 695-698	11.4	112
64	Least-cost adaptation options for global climate change impacts on the Brazilian electric power system. <i>Global Environmental Change</i> , <b>2010</b> , 20, 342-350	10.1	75
63	The vulnerability of wind power to climate change in Brazil. <i>Renewable Energy</i> , <b>2010</b> , 35, 904-912	8.1	71
62	Climate policy scenarios in Brazil: A multi-model comparison for energy. <i>Energy Economics</i> , <b>2016</b> , 56, 564-574	8.3	56
61	Estimating impacts of warming temperatures on California's electricity system. <i>Global Environmental Change</i> , <b>2013</b> , 23, 499-511	10.1	55
60	Contribution of Variable Renewable Energy to increase energy security in Latin America: Complementarity and climate change impacts on wind and solar resources. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 113, 109232	16.2	43
59	Will thermal power plants with CCS play a role in Brazil's future electric power generation?. <i>International Journal of Greenhouse Gas Control</i> , <b>2014</b> , 24, 115-123	4.2	42
58	Scenarios for the future Brazilian power sector based on a multi-criteria assessment. <i>Journal of Cleaner Production</i> , <b>2017</b> , 167, 938-950	10.3	40
57	Forecasting Brazil's crude oil production using a multi-Hubbert model variant. <i>Fuel</i> , <b>2014</b> , 115, 24-31	7.1	39
56	A cross-country assessment of energy-related CO <sub>2</sub> emissions: An extended Kaya Index Decomposition Approach. <i>Energy</i> , <b>2016</b> , 115, 1361-1374	7.9	34
55	Overlooked impacts of electricity expansion optimisation modelling: The life cycle side of the story. <i>Energy</i> , <b>2016</b> , 115, 1424-1435	7.9	32
54	Driving forces for aggregate energy consumption: A cross-country approach. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 68, 1033-1050	16.2	31
53	Possible energy futures for Brazil and Latin America in conservative and stringent mitigation pathways up to 2050. <i>Technological Forecasting and Social Change</i> , <b>2015</b> , 98, 186-210	9.5	29
52	Energy technology roll-out for climate change mitigation: A multi-model study for Latin America. <i>Energy Economics</i> , <b>2016</b> , 56, 526-542	8.3	29
51	Modelling concentrated solar power (CSP) in the Brazilian energy system: A soft-linked model coupling approach. <i>Energy</i> , <b>2016</b> , 116, 265-280	7.9	29

50	The implementation costs of forest conservation policies in Brazil. <i>Ecological Economics</i> , <b>2016</b> , 130, 209-220	2.0	29
49	Energy-related climate change mitigation in Brazil: Potential, abatement costs and associated policies. <i>Energy Policy</i> , <b>2012</b> , 49, 430-441	7.2	28
48	Long-term abatement potential and current policy trajectories in Latin American countries. <i>Energy Economics</i> , <b>2016</b> , 56, 513-525	8.3	26
47	Baseline projections for Latin America: base-year assumptions, key drivers and greenhouse emissions. <i>Energy Economics</i> , <b>2016</b> , 56, 499-512	8.3	25
46	Critical technologies for sustainable energy development in Brazil: technological foresight based on scenario modelling. <i>Journal of Cleaner Production</i> , <b>2016</b> , 130, 12-24	10.3	25
45	Interactions between climate change mitigation and adaptation: The case of hydropower in Brazil. <i>Energy</i> , <b>2018</b> , 164, 1161-1177	7.9	25
44	Stranded asset implications of the Paris Agreement in Latin America and the Caribbean. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 044026	6.2	22
43	Modeling Future Life-Cycle Greenhouse Gas Emissions and Environmental Impacts of Electricity Supplies in Brazil. <i>Energies</i> , <b>2013</b> , 6, 3182-3208	3.1	22
42	Assessing the potential role of concentrated solar power (CSP) for the northeast power system of Brazil using a detailed power system model. <i>Energy</i> , <b>2017</b> , 121, 695-715	7.9	20
41	Brazil's emission trajectories in a well-below 2 °C world: the role of disruptive technologies versus land-based mitigation in an already low-emission energy system. <i>Climatic Change</i> , <b>2020</b> , 162, 1823-1842	4.5	20
40	The Vulnerable Amazon: The Impact of Climate Change on the Untapped Potential of Hydropower Systems. <i>IEEE Power and Energy Magazine</i> , <b>2013</b> , 11, 22-31	2.4	19
39	Building materials in a circular economy: The case of wood waste as CO <sub>2</sub> -sink in bio concrete. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 166, 105346	11.9	19
38	The power of light: socio-economic and environmental implications of a rural electrification program in Brazil. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 095004	6.2	18
37	Optimization model for evaluating on-site renewable technologies with storage in zero/nearly zero energy buildings. <i>Energy and Buildings</i> , <b>2018</b> , 172, 505-516	7	17
36	Climate change: The necessary, the possible and the desirable Earth League climate statement on the implications for climate policy from the 5th IPCC Assessment. <i>Earth's Future</i> , <b>2014</b> , 2, 606-611	7.9	16
35	Modelling the natural gas dynamics in the Southern Cone of Latin America. <i>Applied Energy</i> , <b>2017</b> , 201, 219-239	10.7	15
34	Fuel saving strategies in the Andes: Long-term impacts for Peru, Colombia and Ecuador. <i>Energy Strategy Reviews</i> , <b>2018</b> , 20, 35-48	9.8	14
33	Solar water heating technical-economic potential in the household sector in Brazil. <i>Renewable Energy</i> , <b>2020</b> , 146, 1618-1639	8.1	14

32	Time-varying impacts of demand and supply oil shocks on correlations between crude oil prices and stock markets indices. <i>Research in International Business and Finance</i> , <b>2017</b> , 42, 1011-1020	4.8	13
31	Can Bolivia keep its role as a major natural gas exporter in South America?. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 33, 717-730	4.6	13
30	Analysis of past and future oil production in Peru under a Hubbert approach. <i>Energy Policy</i> , <b>2015</b> , 77, 140-151	7.2	12
29	Bridging the energy divide and securing higher collective well-being in a climate-constrained world. <i>Energy Policy</i> , <b>2017</b> , 108, 435-450	7.2	11
28	Analysis of energy security and sustainability in future low carbon scenarios for Brazil. <i>Natural Resources Forum</i> , <b>2015</b> , 39, 175-190	2.2	11
27	Are conventional energy megaprojects competitive? Suboptimal decisions related to cost overruns in Brazil. <i>Energy Policy</i> , <b>2018</b> , 122, 689-700	7.2	11
26	Impacts of Carbon Pricing on Brazilian Industry: Domestic Vulnerability and International Trade Exposure. <i>Sustainability</i> , <b>2018</b> , 10, 2390	3.6	9
25	Rising Temps, Tides, and Wildfires: Assessing the Risk to California's Energy Infrastructure from Projected Climate Change. <i>IEEE Power and Energy Magazine</i> , <b>2013</b> , 11, 32-45	2.4	8
24	Constructive systems for social housing deployment in developing countries: A case study using dynamic life cycle carbon assessment and cost analysis in Brazil. <i>Energy and Buildings</i> , <b>2020</b> , 227, 110395	7	8
23	Impacts of a warmer world on space cooling demand in Brazilian households. <i>Energy and Buildings</i> , <b>2021</b> , 234, 110696	7	8
22	Greenhouse gas mitigation potential and abatement costs in the Brazilian residential sector. <i>Energy and Buildings</i> , <b>2019</b> , 184, 19-33	7	8
21	Promoting social development in developing countries through solar thermal power plants. <i>Journal of Cleaner Production</i> , <b>2020</b> , 246, 119072	10.3	7
20	Sustainable Insurance Assessment: Towards an Integrative Model. <i>Geneva Papers on Risk and Insurance: Issues and Practice</i> , <b>2018</b> , 43, 275-299	1.2	7
19	Green fiscal reform for a just energy transition in Latin America. <i>Economics</i> , <b>2019</b> , 13,	1.3	6
18	A multicriteria approach for measuring the carbon-risk of oil companies. <i>Energy Strategy Reviews</i> , <b>2012</b> , 1, 122-129	9.8	6
17	Diesel imports dependence in Brazil: A demand decomposition analysis. <i>Energy Strategy Reviews</i> , <b>2017</b> , 18, 63-72	9.8	5
16	Would different methodologies for assessing carbon leakage exposure lead to different risk levels? A case study of the Brazilian industry. <i>Climate Policy</i> , <b>2019</b> , 19, 1102-1116	5.3	4
15	Do low-carbon investments in emerging economies pay off? Evidence from the Brazilian stock market. <i>International Review of Financial Analysis</i> , <b>2021</b> , 74, 101700	6.7	4

14	Closing the energy divide in a climate-constrained world: A focus on the buildings sector. <i>Energy and Buildings</i> , <b>2019</b> , 199, 264-274	7	3
13	Brazilian ethanol expansion subject to limitations. <i>Nature Climate Change</i> , <b>2019</b> , 9, 209-210	21.4	3
12	Air-conditioning and the adaptation cooling deficit in emerging economies. <i>Nature Communications</i> , <b>2021</b> , 12, 6460	17.4	3
11	Distributional effects of carbon pricing in Brazil under the Paris Agreement. <i>Energy Economics</i> , <b>2021</b> , 101, 105396	8.3	3
10	Interactions between global climate change strategies and local air pollution: lessons learnt from the expansion of the power sector in Brazil. <i>Climatic Change</i> , <b>2018</b> , 148, 293-309	4.5	2
9	Price Adjustments and Transaction Costs in the European Natural Gas Market. <i>Energy Journal</i> , <b>2019</b> , 40,	3.5	2
8	Climate change impact on the technical-economic potential for solar photovoltaic energy in the residential sector: a case study for Brazil. <i>Energy and Climate Change</i> , <b>2021</b> , 2, 100062	1.2	2
7	Regional Low-Emission Pathways from Global Models. <i>SSRN Electronic Journal</i> ,	1	1
6	The role of CSP in Brazil: A multi-model analysis <b>2016</b> ,		1
5	Blue sky mining: Strategy for a feasible transition in emerging countries from natural gas to hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 25843-25859	6.7	1
4	Evaluating strategies for monetizing natural gas liquids from processing plants Liquid fuels versus petrochemicals. <i>Journal of Natural Gas Science and Engineering</i> , <b>2022</b> , 99, 104413	4.6	0
3	Can global models provide insights into regional mitigation strategies? A diagnostic model comparison study of bioenergy in Brazil. <i>Climatic Change</i> , <b>2022</b> , 170, 1	4.5	0
2	REDD+: a carbon stock-flow analysis of the Brazilian Amazon municipalities. <i>Carbon Management</i> , <b>2014</b> , 5, 557-572	3.3	
1	Climate Change and the Energy Sector in Brazil <b>2019</b> , 143-179		