Luis Javier Miguel

List of Publications by Year
in descending order

50 papers	1,650 citations	304743 22 h-index	289244 40 g-index
51 all docs	51 docs citations	51 times ranked	1745 citing authors

#	Article	IF	Citations
1	Energy-socio-economic-environmental modelling for the EU energy and post-COVID-19 transitions. Science of the Total Environment, 2022, 805, 150329.	8.0	27
2	Perspective of comprehensive and comprehensible multi-model energy and climate science in Europe. Energy, 2021, 215, 119153.	8.8	57
3	ANALYSIS OF THE VARIABLE RENEWABLE ENERGY IN THE SPANISH POWER SYSTEM BASED ON KERNEL PROBABILISTIC DISTRIBUTIONS. Dyna (Spain), 2021, 96, 179-185.	0.2	2
4	INTEGRATES ASSESSMENT MODELS (IAMS) APPLIED TO CLIMATRE CHANGE AND ENERGY TRANSITION. Dyna (Spain), 2021, 96, 316-321.	0.2	1
5	Macroeconomic modelling under energy constraints: Global low carbon transition scenarios. Energy Policy, 2020, 137, 111090.	8.8	81
6	The Trends of the Energy Intensity and CO2 Emissions Related to Final Energy Consumption in Ecuador: Scenarios of National and Worldwide Strategies. Sustainability, 2020, 12, 20.	3.2	27
7	Low-Carbon Energy Governance: Scenarios to Accelerate the Change in the Energy Matrix in Ecuador. Energies, 2020, 13, 4731.	3.1	11
8	An ecological macroeconomics model: The energy transition in the EU. Energy Policy, 2020, 145, 111726.	8.8	34
9	Modelling the renewable transition: Scenarios and pathways for a decarbonized future using pymedeas, a new open-source energy systems model. Renewable and Sustainable Energy Reviews, 2020, 132, 110105.	16.4	29
10	The Role of Renewable Energies for the Sustainable Energy Governance and Environmental Policies for the Mitigation of Climate Change in Ecuador. Energies, 2020, 13, 3883.	3.1	49
11	MEDEAS: a new modeling framework integrating global biophysical and socioeconomic constraints. Energy and Environmental Science, 2020, 13, 986-1017.	30.8	78
12	Global Sustainability Crossroads: A Participatory Simulation Game to Educate in the Energy and Sustainability Challenges of the 21st Century. Sustainability, 2019, 11, 3672.	3.2	12
13	Dynamic Energy Return on Energy Investment (EROI) and material requirements in scenarios of global transition to renewable energies. Energy Strategy Reviews, 2019, 26, 100399.	7.3	119
14	Modelling of sectoral energy demand through energy intensities in MEDEAS integrated assessment model. Energy Strategy Reviews, 2019, 26, 100419.	7.3	18
15	Less than 2 Â°C? An Economic-Environmental Evaluation of the Paris Agreement. Ecological Economics, 2018, 146, 69-84.	5.7	56
16	Neurofuzzy based temperature prediction of an industrial polymerization reactor in real time. , 2015, , .		1
17	More growth? An unfeasible option to overcome critical energy constraints and climate change. Sustainability Science, 2015, 10, 397-411.	4.9	25
18	Fossil fuel depletion and socio-economic scenarios: An integrated approach. Energy, 2014, 77, 641-666.	8.8	238

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19	A top-down approach to assess physical and ecological limits of biofuels. Energy, 2014, 64, 506-512.	8.8	52
20	Online monitoring of an industrial semi-batch vinyl acetate polymerization reaction by programmable logic controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1290-1295.	0.4	3
21	Application of fuzzy tools to the automatic analysis of system dynamics models: an example of World3. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8983-8988.	0.4	4
22	Traffic sign recognition application based on image processing techniques. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 104-109.	0.4	22
23	A system dynamics approach for the photovoltaic energy market in SpainÂ¤Energy Policy, 2013, 60, 142-154.	8.8	59
24	The transition towards renewable energies: Physical limits and temporal conditions. Energy Policy, 2013, 52, 297-311.	8.8	41
25	Global solar electric potential: A review of their technical and sustainable limits. Renewable and Sustainable Energy Reviews, 2013, 28, 824-835.	16.4	98
26	Is the Electric Vehicle an Attractive Option for Customers?. Energies, 2012, 5, 71-91.	3.1	9
27	Statistical fault diagnosis based on vibration analysis for gear test-bench under non-stationary conditions of speed and load. Mechanical Systems and Signal Processing, 2012, 29, 436-446.	8.0	73
28	A modified direct torque control with fault tolerance. Control Engineering Practice, 2011, 19, 1056-1065.	5.5	12
29	Global wind power potential: Physical and technological limits. Energy Policy, 2011, 39, 6677-6682.	8.8	69
30	Angular resampling for vibration analysis in wind turbines under non-linear speed fluctuation. Mechanical Systems and Signal Processing, 2011, 25, 2157-2168.	8.0	102
31	Neuro-fuzzy identification applied to fault detection in nonlinear systems. International Journal of Systems Science, 2011, 42, 1771-1787.	5.5	7
32	Industrial application of a multitooth tool breakage detection system using spindle motor electrical power consumption. International Journal of Advanced Manufacturing Technology, 2010, 46, 517-528.	3.0	15
33	Laser welding defects detection in automotive industry based on radiation and spectroscopical measurements. International Journal of Advanced Manufacturing Technology, 2010, 49, 133-145.	3.0	31
34	Experimental analysis of change detection algorithms for multitooth machine tool fault detection. Mechanical Systems and Signal Processing, 2009, 23, 2320-2335.	8.0	21
35	The role of non conventional oil in the attenuation of peak oil. Energy Policy, 2009, 37, 1825-1833.	8.8	55
36	Fault Detection by Neuro-Fuzzy Identification in a Nonlinear System. , 2007, , 228-233.		0

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37	Sensor and Inverter Fault Tolerant Control in Induction Motors. , 2007, , 920-925.		0
38	A METHOD FOR DETECTING DEFECTS IN LASER WELDINGS FOR THE AUTOMOTIVE INDUSTRY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 341-346.	0.4	0
39	Additive fault detection in nonlinear dynamic systems with saturation. ISA Transactions, 2005, 44, 515-538.	5.7	6
40	Fuzzy logic-based decision-making for fault diagnosis in a DC motor. Engineering Applications of Artificial Intelligence, 2005, 18, 423-450.	8.1	61
41	On-line path planning for robot manipulators in dynamic environments. , 2001, , .		0
42	Fault-diagnostic system using analytical fuzzy redundancy. Engineering Applications of Artificial Intelligence, 2000, 13, 441-450.	8.1	22
43	Thermal Simulation of Refrigeration Control System in Combustion Engine Test-Bench. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 89-93.	0.4	0
44	Fault Diagnosis of Emission Control System of Automotive Engines Via Fuzzy ARTMAP Neural Network. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 79-83.	0.4	0
45	Isolation of Multiplicative Faults in the Industrial Actuator Benchmark. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 851-856.	0.4	6
46	Fault Detection and Diagnostic System for an Industrial Refrigeration Installation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 397-403.	0.4	0
47	Fuzzy Identification of Systems and Its Applications to Fault Diagnosis Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 693-700.	0.4	6
48	Decision-Making Approaches for a Model-Based FDI Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 707-713.	0.4	2
49	Controller Reconfiguration System Using Parity Equations and Fuzzy Logic. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1249-1254.	0.4	4
50	Fault diagnosis system based on sensitivity analysis and fuzzy logic. , 0, , .		0