

# Luis Javier Miguel

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Fossil fuel depletion and socio-economic scenarios: An integrated approach. <i>Energy</i> , 2014, 77, 641-666.	8.8	238
2	Dynamic Energy Return on Energy Investment (EROI) and material requirements in scenarios of global transition to renewable energies. <i>Energy Strategy Reviews</i> , 2019, 26, 100399.	7.3	119
3	Angular resampling for vibration analysis in wind turbines under non-linear speed fluctuation. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 2157-2168.	8.0	102
4	Global solar electric potential: A review of their technical and sustainable limits. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 824-835.	16.4	98
5	Macroeconomic modelling under energy constraints: Global low carbon transition scenarios. <i>Energy Policy</i> , 2020, 137, 111090.	8.8	81
6	MEDEAS: a new modeling framework integrating global biophysical and socioeconomic constraints. <i>Energy and Environmental Science</i> , 2020, 13, 986-1017.	30.8	78
7	Statistical fault diagnosis based on vibration analysis for gear test-bench under non-stationary conditions of speed and load. <i>Mechanical Systems and Signal Processing</i> , 2012, 29, 436-446.	8.0	73
8	Global wind power potential: Physical and technological limits. <i>Energy Policy</i> , 2011, 39, 6677-6682.	8.8	69
9	Fuzzy logic-based decision-making for fault diagnosis in a DC motor. <i>Engineering Applications of Artificial Intelligence</i> , 2005, 18, 423-450.	8.1	61
10	A system dynamics approach for the photovoltaic energy market in Spain. <i>Energy Policy</i> , 2013, 60, 142-154.	8.8	59
11	Perspective of comprehensive and comprehensible multi-model energy and climate science in Europe. <i>Energy</i> , 2021, 215, 119153.	8.8	57
12	Less than 2 °C? An Economic-Environmental Evaluation of the Paris Agreement. <i>Ecological Economics</i> , 2018, 146, 69-84.	5.7	56
13	The role of non conventional oil in the attenuation of peak oil. <i>Energy Policy</i> , 2009, 37, 1825-1833.	8.8	55
14	A top-down approach to assess physical and ecological limits of biofuels. <i>Energy</i> , 2014, 64, 506-512.	8.8	52
15	The Role of Renewable Energies for the Sustainable Energy Governance and Environmental Policies for the Mitigation of Climate Change in Ecuador. <i>Energies</i> , 2020, 13, 3883.	3.1	49
16	The transition towards renewable energies: Physical limits and temporal conditions. <i>Energy Policy</i> , 2013, 52, 297-311.	8.8	41
17	An ecological macroeconomics model: The energy transition in the EU. <i>Energy Policy</i> , 2020, 145, 111726.	8.8	34
18	Laser welding defects detection in automotive industry based on radiation and spectroscopical measurements. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 49, 133-145.	3.0	31

#	ARTICLE	IF	CITATIONS
19	Modelling the renewable transition: Scenarios and pathways for a decarbonized future using pymedeas, a new open-source energy systems model. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110105.	16.4	29
20	The Trends of the Energy Intensity and CO2 Emissions Related to Final Energy Consumption in Ecuador: Scenarios of National and Worldwide Strategies. <i>Sustainability</i> , 2020, 12, 20.	3.2	27
21	Energy-socio-economic-environmental modelling for the EU energy and post-COVID-19 transitions. <i>Science of the Total Environment</i> , 2022, 805, 150329.	8.0	27
22	More growth? An unfeasible option to overcome critical energy constraints and climate change. <i>Sustainability Science</i> , 2015, 10, 397-411.	4.9	25
23	Fault-diagnostic system using analytical fuzzy redundancy. <i>Engineering Applications of Artificial Intelligence</i> , 2000, 13, 441-450.	8.1	22
24	Traffic sign recognition application based on image processing techniques. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 104-109.	0.4	22
25	Experimental analysis of change detection algorithms for multitooth machine tool fault detection. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 2320-2335.	8.0	21
26	Modelling of sectoral energy demand through energy intensities in MEDEAS integrated assessment model. <i>Energy Strategy Reviews</i> , 2019, 26, 100419.	7.3	18
27	Industrial application of a multitooth tool breakage detection system using spindle motor electrical power consumption. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 46, 517-528.	3.0	15
28	A modified direct torque control with fault tolerance. <i>Control Engineering Practice</i> , 2011, 19, 1056-1065.	5.5	12
29	Global Sustainability Crossroads: A Participatory Simulation Game to Educate in the Energy and Sustainability Challenges of the 21st Century. <i>Sustainability</i> , 2019, 11, 3672.	3.2	12
30	Low-Carbon Energy Governance: Scenarios to Accelerate the Change in the Energy Matrix in Ecuador. <i>Energies</i> , 2020, 13, 4731.	3.1	11
31	Is the Electric Vehicle an Attractive Option for Customers?. <i>Energies</i> , 2012, 5, 71-91.	3.1	9
32	Neuro-fuzzy identification applied to fault detection in nonlinear systems. <i>International Journal of Systems Science</i> , 2011, 42, 1771-1787.	5.5	7
33	Isolation of Multiplicative Faults in the Industrial Actuator Benchmark. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997, 30, 851-856.	0.4	6
34	Fuzzy Identification of Systems and Its Applications to Fault Diagnosis Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997, 30, 693-700.	0.4	6
35	Additive fault detection in nonlinear dynamic systems with saturation. <i>ISA Transactions</i> , 2005, 44, 515-538.	5.7	6
36	Controller Reconfiguration System Using Parity Equations and Fuzzy Logic. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997, 30, 1249-1254.	0.4	4

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	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
41	Neurofuzzy based temperature prediction of an industrial polymerization reactor in real time. , 2015, , .		1
42	INTEGRATES ASSESSMENT MODELS (IAMS) APPLIED TO CLIMATE CHANGE AND ENERGY TRANSITION. Dyna (Spain), 2021, 96, 316-321.	0.2	1
43	Fault diagnosis system based on sensitivity analysis and fuzzy logic. , 0, , .		0
44	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
45	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
46	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
47	On-line path planning for robot manipulators in dynamic environments. , 2001, , .		0
48	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
49	Fault Detection by Neuro-Fuzzy Identification in a Nonlinear System. , 2007, , 228-233.		0
50	Sensor and Inverter Fault Tolerant Control in Induction Motors. , 2007, , 920-925.		0