

# Jose Luis Miguez Tabares

## List of Publications by Year in Descending Order

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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.

102  
papers

2,642  
citations

29  
h-index

48  
g-index

105  
ext. papers

3,025  
ext. citations

6.1  
avg, IF

5.22  
L-index

#	Paper	IF	Citations
102	Study on the Influence of the Ball Material on Abrasive Particles' Dynamics in Ball-Cratering Thin Coatings Wear Tests. <i>Materials</i> , <b>2021</b> , 14,	3.5	6
101	Viability of Agricultural and Forestry Residues as Biomass Fuels in the Galicia-North Portugal Region: An Experimental Study. <i>Sustainability</i> , <b>2020</b> , 12, 8206	3.6	3
100	Bed cooling effects in solid particulate matter emissions during biomass combustion. A morphological insight. <i>Energy</i> , <b>2020</b> , 205, 118088	7.9	4
99	Eulerian CFD fouling model for fixed bed biomass combustion systems. <i>Fuel</i> , <b>2020</b> , 278, 118251	7.1	5
98	Biological systems for CCS: Patent review as a criterion for technological development. <i>Applied Energy</i> , <b>2020</b> , 257, 114032	10.7	8
97	Novel Test Bench for the Active Reduction of Biomass Particulate Matter Emissions. <i>Sustainability</i> , <b>2020</b> , 12, 422	3.6	8
96	Assessment of the Fire Dynamics Simulator for Modeling Fire Suppression in Engine Rooms of Ships with Low-Pressure Water Mist. <i>Fire Technology</i> , <b>2020</b> , 56, 1315-1352	3	2
95	Numerical transient modelling of the fouling phenomena and its influence on thermal performance in a low-scale biomass shell boiler. <i>Renewable Energy</i> , <b>2020</b> , 161, 309-318	8.1	4
94	Improving Bed Movement Physics in Biomass Computational Fluid Dynamics Combustion Simulations. <i>Chemical Engineering and Technology</i> , <b>2019</b> , 42, 2556-2564	2	3
93	CFD Analysis of a Buffer Tank Redesigned with a Thermosyphon Concentrator Tube. <i>Energies</i> , <b>2019</b> , 12, 2162	3.1	1
92	CFD study of fouling phenomena in small-scale biomass boilers: Experimental validation with two different boilers. <i>Renewable Energy</i> , <b>2019</b> , 140, 552-562	8.1	9
91	Assessment of micro-cogeneration network in European mining areas: A prototype system. <i>Energy</i> , <b>2019</b> , 174, 350-358	7.9	4
90	Numerical study of the thermal behaviour of a water heater tank with a corrugated coil. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 122, 574-586	4.9	12
89	An Eulerian model for the simulation of the thermal conversion of a single large biomass particle. <i>Fuel</i> , <b>2018</b> , 220, 671-681	7.1	15
88	Evolution of CO2 capture technology between 2007 and 2017 through the study of patent activity. <i>Applied Energy</i> , <b>2018</b> , 211, 1282-1296	10.7	73
87	Comprehensive CFD modeling of the ash deposition in a biomass packed bed burner. <i>Fuel</i> , <b>2018</b> , 234, 1099-1122	7.1	16
86	On the Physical Vapour Deposition (PVD): Evolution of Magnetron Sputtering Processes for Industrial Applications. <i>Procedia Manufacturing</i> , <b>2018</b> , 17, 746-757	1.5	59

85	A critical review on the numerical simulation related to Physical Vapour Deposition. <i>Procedia Manufacturing</i> , <b>2018</b> , 17, 860-869	1.5	6
84	Sputtering Physical Vapour Deposition (PVD) Coatings: A Critical Review on Process Improvement and Market Trend Demands. <i>Coatings</i> , <b>2018</b> , 8, 402	2.9	135
83	Numerical Simulation Applied to PVD Reactors: An Overview. <i>Coatings</i> , <b>2018</b> , 8, 410	2.9	7
82	Technology Evolution in Membrane-Based CCS. <i>Energies</i> , <b>2018</b> , 11, 3153	3.1	16
81	Numerical study of an external device for the improvement of the thermal stratification in hot water storage tanks. <i>Applied Thermal Engineering</i> , <b>2018</b> , 144, 996-1009	5.8	19
80	Dynamic simulation of a biomass domestic boiler under thermally thick considerations. <i>Energy Conversion and Management</i> , <b>2017</b> , 140, 260-272	10.6	20
79	The Sustainable Development Goals: An Experience on Higher Education. <i>Sustainability</i> , <b>2017</b> , 9, 1353	3.6	26
78	Using NVivo to assess a program of goal-corrected empathic attunement skills: a case study in the context of higher education. <i>Universal Access in the Information Society</i> , <b>2017</b> , 16, 863-876	2.5	2
77	Recycling COR-TEN <sup>®</sup> Sea Containers into Service Modules for Military Applications: Thermal Analysis. <i>Energies</i> , <b>2017</b> , 10, 820	3.1	5
76	Design and monitoring of a micro-cogeneration system: A wide practice proposed for engineering education. <i>Computer Applications in Engineering Education</i> , <b>2016</b> , 24, 723-735	1.6	4
75	Measuring and Predicting the Slagging of Woody and Herbaceous Mediterranean Biomass Fuels on a Domestic Pellet Boiler. <i>Energy &amp; Fuels</i> , <b>2016</b> ,	4.1	14
74	Experimental analysis of fouling rates in two small-scale domestic boilers. <i>Applied Thermal Engineering</i> , <b>2016</b> , 100, 849-860	5.8	20
73	Numerical simulation of the combustion process of a pellet-drop-feed boiler. <i>Fuel</i> , <b>2016</b> , 184, 987-999	7.1	40
72	Development of an ICE-Based Micro-CHP System Based on a Stirling Engine; Methodology for a Comparative Study of its Performance and Sensitivity Analysis in Recreational Sailing Boats in Different European Climates. <i>Energies</i> , <b>2016</b> , 9, 239	3.1	8
71	Effect of Air Staging Ratios on the Burning Rate and Emissions in an Underfeed Fixed-Bed Biomass Combustor. <i>Energies</i> , <b>2016</b> , 9, 940	3.1	17
70	Suitability Assessment of an ICE-Based Micro-CCHP Unit in Different Spanish Climatic Zones: Application of an Experimental Model in Transient Simulation. <i>Energies</i> , <b>2016</b> , 9, 969	3.1	4
69	On the Behavior of Different PCMs in a Hot Water Storage Tank against Thermal Demands. <i>Materials</i> , <b>2016</b> , 9,	3.5	11
68	Development of a new android application to remotely control a micro-cogeneration system as e-learning tool. <i>Computer Applications in Engineering Education</i> , <b>2016</b> , 24, 497-507	1.6	5

67	Integration of the free software GenOpt for a thermal engineering course. <i>Computer Applications in Engineering Education</i> , <b>2016</b> , 24, 356-364	1.6	1
66	Building a Relationship with the Supervisor: An Exploratory Study. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 677-687	0.4	
65	Eulerian CFD modelling for biomass combustion. Transient simulation of an underfeed pellet boiler. <i>Energy Conversion and Management</i> , <b>2015</b> , 101, 666-680	10.6	44
64	Integration of several renewable energies for internal combustion engine substitution in a commercial sailboat. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 6689-6701	6.7	7
63	Low-Quality Fuels for Small-Scale Combustion Boilers: An Experimental Study. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 3064-3081	4.1	14
62	New methodology for CFD three-dimensional simulation of a walking beam type reheating furnace in steady state. <i>Applied Thermal Engineering</i> , <b>2015</b> , 86, 69-80	5.8	46
61	Fast-solving thermally thick model of biomass particles embedded in a CFD code for the simulation of fixed-bed burners. <i>Energy Conversion and Management</i> , <b>2015</b> , 105, 30-44	10.6	43
60	Calibrated simulation of a public library HVAC system with a ground-source heat pump and a radiant floor using TRNSYS and GenOpt. <i>Energy and Buildings</i> , <b>2015</b> , 108, 114-126	7	47
59	Experimental investigation of the thermal response of a thermal storage tank partially filled with different PCMs (phase change materials) to a steep demand. <i>Energy</i> , <b>2015</b> , 91, 202-214	7.9	14
58	Comparative study of the relevance of musculoskeletal disorders between the Spanish and the European working population. <i>Work</i> , <b>2015</b> , 51, 645-56	1.6	4
57	Influence of Combustion Parameters on Fouling Composition after Wood Pellet Burning in a Lab-Scale Low-Power Boiler. <i>Energies</i> , <b>2015</b> , 8, 9794-9816	3.1	28
56	Experimental Study on Thermal Conductivity of Self-Compacting Concrete with Recycled Aggregate. <i>Materials</i> , <b>2015</b> , 8, 4457-4478	3.5	17
55	The use of grey-based methods in multi-criteria decision analysis for the evaluation of sustainable energy systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 47, 924-932	16.2	93
54	Development of an improved dynamic model of a Stirling engine and a performance analysis of a cogeneration plant. <i>Applied Thermal Engineering</i> , <b>2014</b> , 73, 608-621	5.8	13
53	CFD modelling of thermal conversion and packed bed compaction in biomass combustion. <i>Fuel</i> , <b>2014</b> , 117, 716-732	7.1	91
52	Devolatilization behaviour and pyrolysis kinetic modelling of Spanish biomass fuels. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 113, 569-578	4.1	15
51	CFD simulation of a solar radiation absorber. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 57, 231-240	4.9	37
50	Development of an experimental technique for oil recovery during biomass pyrolysis. <i>Renewable Energy</i> , <b>2013</b> , 60, 179-184	8.1	6

49	Feasibility of using a Stirling engine-based micro-CHP to provide heat and electricity to a recreational sailing boat in different European ports. <i>Applied Thermal Engineering</i> , <b>2013</b> , 59, 414-424	5.8	21
48	Development of a Transient Model of a Stirling-Based CHP System. <i>Energies</i> , <b>2013</b> , 6, 3115-3133	3.1	18
47	Biomass Fuel and Combustion Conditions Selection in a Fixed Bed Combustor. <i>Energies</i> , <b>2013</b> , 6, 5973-5989	3.9	29
46	The Influence of Phase Change Materials on the Properties of Self-Compacting Concrete. <i>Materials</i> , <b>2013</b> , 6, 3530-3546	3.5	37
45	The "we" and the "others" in an interprofessional surgical context: findings from a Portuguese study. <i>Journal of Interprofessional Care</i> , <b>2013</b> , 27, 91-2	2.7	3
44	Review of technology in small-scale biomass combustion systems in the European market. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 3867-3875	16.2	48
43	A study of the influence of solar radiation and humidity in a bioclimatic traditional Galician agricultural dry storage structure (horreo). <i>Energy and Buildings</i> , <b>2012</b> , 55, 109-117	7	7
42	Numerical simulation of a small-scale biomass boiler. <i>Energy Conversion and Management</i> , <b>2012</b> , 64, 87-96	6.6	69
41	CFD Simulation of a Concrete Cubicle to Analyze the Thermal Effect of Phase Change Materials in Buildings. <i>Energies</i> , <b>2012</b> , 5, 2093-2111	3.1	19
40	Study of the reaction front thickness in a counter-current fixed-bed combustor of a pelletised biomass. <i>Combustion and Flame</i> , <b>2012</b> , 159, 1296-1302	5.3	38
39	The influence of slotted floors on the bioclimatic traditional Galician agricultural dry-store structure (horreo). <i>Energy and Buildings</i> , <b>2011</b> , 43, 3491-3496	7	4
38	Diesel engine condition monitoring using a multi-net neural network system with nonintrusive sensors. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 4097-4105	5.8	38
37	An electrical network for the numerical solution of transient mhd couette flow of a dusty fluid: Effects of variable properties and hall current. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 1432-1439	5.8	11
36	The motion of discs and spherical fuel particles in combustion burners based on Monte Carlo simulation. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 795-801	10.6	1
35	Experimental analysis of the ignition front propagation of several biomass fuels in a fixed-bed combustor. <i>Fuel</i> , <b>2010</b> , 89, 26-35	7.1	127
34	Simulation and experimental validation of a methanol burner. <i>Fuel</i> , <b>2009</b> , 88, 326-334	7.1	22
33	Study of the feasibility of mixing Refuse Derived Fuels with wood pellets through the grey and Fuzzy theory. <i>Renewable Energy</i> , <b>2009</b> , 34, 2607-2612	8.1	22
32	Numerical Modeling of a Biomass Pellet Domestic Boiler. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 1067-1075	4.1	81

31	Improving the Cofiring Process of Wood Pellet and Refuse Derived Fuel in a Small-Scale Boiler Plant. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 2121-2128	4.1	23
30	Exhaust Emissions from Diesel, LPG, and Gasoline Low-power Engines. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2008</b> , 30, 1065-1073	1.6	3
29	Performance and exhaust emissions in the use of biodiesel in outboard diesel engines. <i>Fuel</i> , <b>2007</b> , 86, 1765-1771	7.1	231
28	Contribution of renewable energy sources to electricity production in the La Rioja Autonomous Community, Spain. A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2007</b> , 11, 1244-1259	16.2	11
27	Contribution of renewable energy sources to electricity production in the autonomous community of Navarre (Spain): A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2007</b> , 11, 1776-1793	16.2	13
26	Modelling and dynamic simulation of processes with MATLAB—An application of a natural gas installation in a power plant. <i>Energy</i> , <b>2007</b> , 32, 1271-1282	7.9	10
25	Combustion Behavior of Spanish Lignocellulosic Briquettes. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2006</b> , 28, 501-515	1.6	6
24	Contribution of Renewable Energy Sources to Electricity Production in Galicia (Spain). <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2006</b> , 28, 995-1012	1.6	4
23	Effect of Different Configurations on Small Pellet Combustion Systems. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2006</b> , 28, 1135-1148	1.6	9
22	Optimising ventilation-system design for a container-housed engine. <i>Applied Energy</i> , <b>2006</b> , 83, 1125-1138	10.7	7
21	Exergetic analysis and thermoeconomic study for a container-housed engine. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 1840-1850	5.8	15
20	Feasibility study of forest residue use as fuel through co-firing with pellet. <i>Biomass and Bioenergy</i> , <b>2006</b> , 30, 238-246	5.3	16
19	Use of grey relational analysis to assess and optimize small biomass boilers. <i>Fuel Processing Technology</i> , <b>2006</b> , 87, 123-127	7.2	140
18	Mathematical modelling of the combustion of a single wood particle. <i>Fuel Processing Technology</i> , <b>2006</b> , 87, 169-175	7.2	80
17	Modelling and simulation of the dynamic performance of a natural-gas turbine flowmeter. <i>Applied Energy</i> , <b>2006</b> , 83, 1222-1234	10.7	7
16	Review of the energy rating of dwellings in the European Union as a mechanism for sustainable energy. <i>Renewable and Sustainable Energy Reviews</i> , <b>2006</b> , 10, 24-45	16.2	34
15	Review of compliance with EU-2010 targets on renewable energy in Galicia (Spain). <i>Renewable and Sustainable Energy Reviews</i> , <b>2006</b> , 10, 225-247	16.2	31
14	Improvement of a chain-hardening furnace by computational fluid dynamics (CFD) simulation. <i>Applied Energy</i> , <b>2005</b> , 81, 260-276	10.7	4

13	LPG: Pollutant emission and performance enhancement for spark-ignition four strokes outboard engines. <i>Applied Thermal Engineering</i> , <b>2005</b> , 25, 1882-1893	5.8	33
12	Feasibility of a new domestic CHP trigeneration with heat pump: I. Design and development. <i>Applied Thermal Engineering</i> , <b>2004</b> , 24, 1409-1419	5.8	53
11	Experimental modelling of a pilot lignocellulosic pellets stove plant. <i>Biomass and Bioenergy</i> , <b>2004</b> , 27, 577-583	5.3	20
10	Feasibility of a new domestic CHP trigeneration with heat pump: II. Availability analysis. <i>Applied Thermal Engineering</i> , <b>2004</b> , 24, 1421-1429	5.8	38
9	Viability of LPG use in low-power outboard engines for reduction in consumption and pollutant emissions. <i>International Journal of Energy Research</i> , <b>2003</b> , 27, 467-480	4.5	11
8	Pellet Combustion in Stove: Performance and Emissions Statistical Approach. <i>Renewable Energy and Power Quality Journal</i> , <b>2003</b> , 1, 641-646		2
7	Prediction of global daily solar radiation using higher order statistics. <i>Renewable Energy</i> , <b>2002</b> , 27, 647-666		41
6	Prediction of the properties of Spanish lignocellulosic briquettes by means of dispersive X-ray fluorescence. <i>Renewable Energy</i> , <b>2002</b> , 27, 575-584	8.1	3
5	Fuel lignocellulosic briquettes, die design and products study. <i>Renewable Energy</i> , <b>2002</b> , 27, 561-573	8.1	53
4	Feasibility study for the installation of HVAC for a spa by means of energy recovery from thermal water Part I: Analysis of conditions. <i>Renewable Energy</i> , <b>2001</b> , 23, 123-134	8.1	3
3	Feasibility study for the installation of HVAC for a spa by means of energy recovery from thermal water Part II: Energy analysis. <i>Renewable Energy</i> , <b>2001</b> , 23, 135-149	8.1	1
2	Proposal for the use of renewable energy in the La Rioja autonomous community (LRAC) (Spain). <i>Renewable Energy</i> , <b>2000</b> , 20, 289-304	8.1	10
1	Feasibility study of energy use for densificated lignocellulosic material (briquettes). <i>Fuel</i> , <b>2000</b> , 79, 1229-1237		23