

Jose Luis Miguez Tabares

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9062480/publications.pdf>

Version: 2024-02-01

105
papers

3,469
citations

168829

31
h-index

175968

55
g-index

105
all docs

105
docs citations

105
times ranked

3796
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the Influence of the Ball Material on Abrasive Particlesâ€™ Dynamics in Ball-Cratering Thin Coatings Wear Tests. <i>Materials</i> , 2021, 14, 668.	1.3	6
2	Biological systems for CCS: Patent review as a criterion for technological development. <i>Applied Energy</i> , 2020, 257, 114032.	5.1	12
3	Novel Test Bench for the Active Reduction of Biomass Particulate Matter Emissions. <i>Sustainability</i> , 2020, 12, 422.	1.6	12
4	Assessment of the Fire Dynamics Simulator for Modeling Fire Suppression in Engine Rooms of Ships with Low-Pressure Water Mist. <i>Fire Technology</i> , 2020, 56, 1315-1352.	1.5	14
5	Numerical transient modelling of the fouling phenomena and its influence on thermal performance in a low-scale biomass shell boiler. <i>Renewable Energy</i> , 2020, 161, 309-318.	4.3	9
6	Viability of Agricultural and Forestry Residues as Biomass Fuels in the Galicia-North Portugal Region: An Experimental Study. <i>Sustainability</i> , 2020, 12, 8206.	1.6	6
7	Bed cooling effects in solid particulate matter emissions during biomass combustion. A morphological insight. <i>Energy</i> , 2020, 205, 118088.	4.5	8
8	Eulerian CFD fouling model for fixed bed biomass combustion systems. <i>Fuel</i> , 2020, 278, 118251.	3.4	10
9	Improving Bed Movement Physics in Biomass Computational Fluid Dynamics Combustion Simulations. <i>Chemical Engineering and Technology</i> , 2019, 42, 2556-2564.	0.9	9
10	CFD Analysis of a Buffer Tank Redesigned with a Thermosyphon Concentrator Tube. <i>Energies</i> , 2019, 12, 2162.	1.6	1
11	CFD study of fouling phenomena in small-scale biomass boilers: Experimental validation with two different boilers. <i>Renewable Energy</i> , 2019, 140, 552-562.	4.3	16
12	Assessment of micro-cogeneration network in European mining areas: A prototype system. <i>Energy</i> , 2019, 174, 350-358.	4.5	7
13	Numerical study of the thermal behaviour of a water heater tank with a corrugated coil. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 574-586.	2.5	15
14	An Eulerian model for the simulation of the thermal conversion of a single large biomass particle. <i>Fuel</i> , 2018, 220, 671-681.	3.4	18
15	Evolution of CO2 capture technology between 2007 and 2017 through the study of patent activity. <i>Applied Energy</i> , 2018, 211, 1282-1296.	5.1	95
16	On the Physical Vapour Deposition (PVD): Evolution of Magnetron Sputtering Processes for Industrial Applications. <i>Procedia Manufacturing</i> , 2018, 17, 746-757.	1.9	107
17	A critical review on the numerical simulation related to Physical Vapour Deposition. <i>Procedia Manufacturing</i> , 2018, 17, 860-869.	1.9	9
18	Sputtering Physical Vapour Deposition (PVD) Coatings: A Critical Review on Process Improvement and Market Trend Demands. <i>Coatings</i> , 2018, 8, 402.	1.2	256

#	ARTICLE	IF	CITATIONS
19	Numerical Simulation Applied to PVD Reactors: An Overview. <i>Coatings</i> , 2018, 8, 410.	1.2	10
20	Technology Evolution in Membrane-Based CCS. <i>Energies</i> , 2018, 11, 3153.	1.6	22
21	Numerical study of an external device for the improvement of the thermal stratification in hot water storage tanks. <i>Applied Thermal Engineering</i> , 2018, 144, 996-1009.	3.0	25
22	Comprehensive CFD modeling of the ash deposition in a biomass packed bed burner. <i>Fuel</i> , 2018, 234, 1099-1122.	3.4	25
23	Dynamic simulation of a biomass domestic boiler under thermally thick considerations. <i>Energy Conversion and Management</i> , 2017, 140, 260-272.	4.4	27
24	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> , 2017, 16, 863-876.	2.1	4
25	Recycling COR-TENÂ® Sea Containers into Service Modules for Military Applications: Thermal Analysis. <i>Energies</i> , 2017, 10, 820.	1.6	6
26	The Sustainable Development Goals: An Experience on Higher Education. <i>Sustainability</i> , 2017, 9, 1353.	1.6	41
27	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> , 2016, 9, 239.	1.6	10
28	Effect of Air Staging Ratios on the Burning Rate and Emissions in an Underfeed Fixed-Bed Biomass Combustor. <i>Energies</i> , 2016, 9, 940.	1.6	22
29	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> , 2016, 9, 969.	1.6	4
30	On the Behavior of Different PCMs in a Hot Water Storage Tank against Thermal Demands. <i>Materials</i> , 2016, 9, 213.	1.3	17
31	Development of a new android application to remotely control a micro-€ogeneration system as e€learning tool. <i>Computer Applications in Engineering Education</i> , 2016, 24, 497-507.	2.2	5
32	Integration of the free software GenOpt for a thermal engineering course. <i>Computer Applications in Engineering Education</i> , 2016, 24, 356-364.	2.2	1
33	Building a Relationship with the Supervisor: An Exploratory Study. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 677-687.	0.5	0
34	Design and monitoring of a micro-€ogeneration system: A wide practice proposed for engineering education. <i>Computer Applications in Engineering Education</i> , 2016, 24, 723-735.	2.2	5
35	Experimental analysis of fouling rates in two small-scale domestic boilers. <i>Applied Thermal Engineering</i> , 2016, 100, 849-860.	3.0	26
36	Numerical simulation of the combustion process of a pellet-drop-feed boiler. <i>Fuel</i> , 2016, 184, 987-999.	3.4	54

#	ARTICLE	IF	CITATIONS
37	Comparative study of the relevance of musculoskeletal disorders between the Spanish and the European working population. <i>Work</i> , 2015, 51, 645-656.	0.6	7
38	Influence of Combustion Parameters on Fouling Composition after Wood Pellet Burning in a Lab-Scale Low-Power Boiler. <i>Energies</i> , 2015, 8, 9794-9816.	1.6	33
39	Experimental Study on Thermal Conductivity of Self-Compacting Concrete with Recycled Aggregate. <i>Materials</i> , 2015, 8, 4457-4478.	1.3	23
40	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> , 2015, 47, 924-932.	8.2	124
41	Eulerian CFD modelling for biomass combustion. Transient simulation of an underfeed pellet boiler. <i>Energy Conversion and Management</i> , 2015, 101, 666-680.	4.4	51
42	Integration of several renewable energies for internal combustion engine substitution in a commercial sailboat. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6689-6701.	3.8	8
43	Low-Quality Fuels for Small-Scale Combustion Boilers: An Experimental Study. <i>Energy & Fuels</i> , 2015, 29, 3064-3081.	2.5	20
44	New methodology for CFD three-dimensional simulation of a walking beam type reheating furnace in steady state. <i>Applied Thermal Engineering</i> , 2015, 86, 69-80.	3.0	66
45	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> , 2015, 105, 30-44.	4.4	54
46	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> , 2015, 108, 114-126.	3.1	54
47	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> , 2015, 91, 202-214.	4.5	14
48	Automating, monitoring, and control of an ICE based micro-CCHP system using LabVIEW and Android. , 2015, , .		2
49	Development of an improved dynamic model of a Stirling engine and a performance analysis of a cogeneration plant. <i>Applied Thermal Engineering</i> , 2014, 73, 608-621.	3.0	13
50	CFD modelling of thermal conversion and packed bed compaction in biomass combustion. <i>Fuel</i> , 2014, 117, 716-732.	3.4	118
51	Devolatilization behaviour and pyrolysis kinetic modelling of Spanish biomass fuels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 569-578.	2.0	18
52	CFD simulation of a solar radiation absorber. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 231-240.	2.5	55
53	Development of an experimental technique for oil recovery during biomass pyrolysis. <i>Renewable Energy</i> , 2013, 60, 179-184.	4.3	6
54	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> , 2013, 59, 414-424.	3.0	23

#	ARTICLE	IF	CITATIONS
55	Development of a Transient Model of a Stirling-Based CHP System. <i>Energies</i> , 2013, 6, 3115-3133.	1.6	21
56	Biomass Fuel and Combustion Conditions Selection in a Fixed Bed Combustor. <i>Energies</i> , 2013, 6, 5973-5989.	1.6	33
57	The Influence of Phase Change Materials on the Properties of Self-Compacting Concrete. <i>Materials</i> , 2013, 6, 3530-3546.	1.3	54
58	The "we" and the "others" in an interprofessional surgical context: Findings from a Portuguese study. <i>Journal of Interprofessional Care</i> , 2013, 27, 91-92.	0.8	5
59	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> , 2012, 55, 109-117.	3.1	11
60	Numerical simulation of a small-scale biomass boiler. <i>Energy Conversion and Management</i> , 2012, 64, 87-96.	4.4	84
61	CFD Simulation of a Concrete Cubicle to Analyze the Thermal Effect of Phase Change Materials in Buildings. <i>Energies</i> , 2012, 5, 2093-2111.	1.6	21
62	Study of the reaction front thickness in a counter-current fixed-bed combustor of a pelletised biomass. <i>Combustion and Flame</i> , 2012, 159, 1296-1302.	2.8	51
63	Review of technology in small-scale biomass combustion systems in the European market. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3867-3875.	8.2	66
64	The influence of slotted floors on the bioclimatic traditional Galician agricultural dry-store structure (horreo). <i>Energy and Buildings</i> , 2011, 43, 3491-3496.	3.1	5
65	Diesel engine condition monitoring using a multi-net neural network system with nonintrusive sensors. <i>Applied Thermal Engineering</i> , 2011, 31, 4097-4105.	3.0	49
66	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> , 2010, 37, 1432-1439.	2.9	12
67	The motion of discs and spherical fuel particles in combustion burners based on Monte Carlo simulation. <i>Energy Conversion and Management</i> , 2010, 51, 795-801.	4.4	1
68	Experimental analysis of the ignition front propagation of several biomass fuels in a fixed-bed combustor. <i>Fuel</i> , 2010, 89, 26-35.	3.4	157
69	Simulation and experimental validation of a methanol burner. <i>Fuel</i> , 2009, 88, 326-334.	3.4	28
70	Study of the feasibility of mixing Refuse Derived Fuels with wood pellets through the grey and Fuzzy theory. <i>Renewable Energy</i> , 2009, 34, 2607-2612.	4.3	22
71	Numerical Modeling of a Biomass Pellet Domestic Boiler. <i>Energy & Fuels</i> , 2009, 23, 1067-1075.	2.5	93
72	Improving the Cofiring Process of Wood Pellet and Refuse Derived Fuel in a Small-Scale Boiler Plant. <i>Energy & Fuels</i> , 2008, 22, 2121-2128.	2.5	23

#	ARTICLE	IF	CITATIONS
73	Exhaust Emissions from Diesel, LPG, and Gasoline Low-power Engines. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 1065-1073.	1.2	5
74	Performance and exhaust emissions in the use of biodiesel in outboard diesel engines. Fuel, 2007, 86, 1765-1771.	3.4	270
75	Contribution of renewable energy sources to electricity production in the La Rioja Autonomous Community, Spain. A review. Renewable and Sustainable Energy Reviews, 2007, 11, 1244-1259.	8.2	15
76	Contribution of renewable energy sources to electricity production in the autonomous community of Navarre (Spain): A review. Renewable and Sustainable Energy Reviews, 2007, 11, 1776-1793.	8.2	18
77	Modelling and dynamic simulation of processes with "MATLAB"™. An application of a natural gas installation in a power plant. Energy, 2007, 32, 1271-1282.	4.5	11
78	STUDY OF THE COMBUSTION OF PELLETS AND RDF IN A SMALL BOILER-STOVE PLANT. Clean Air, 2007, 8, 183-197.	0.0	1
79	Optimising ventilation-system design for a container-housed engine. Applied Energy, 2006, 83, 1125-1138.	5.1	7
80	Energetic analysis and thermoeconomic study for a container-housed engine. Applied Thermal Engineering, 2006, 26, 1840-1850.	3.0	15
81	Feasibility study of forest residue use as fuel through co-firing with pellet. Biomass and Bioenergy, 2006, 30, 238-246.	2.9	19
82	Use of grey relational analysis to assess and optimize small biomass boilers. Fuel Processing Technology, 2006, 87, 123-127.	3.7	175
83	Mathematical modelling of the combustion of a single wood particle. Fuel Processing Technology, 2006, 87, 169-175.	3.7	91
84	Modelling and simulation of the dynamic performance of a natural-gas turbine flowmeter. Applied Energy, 2006, 83, 1222-1234.	5.1	14
85	Review of the energy rating of dwellings in the European Union as a mechanism for sustainable energy. Renewable and Sustainable Energy Reviews, 2006, 10, 24-45.	8.2	40
86	Review of compliance with EU-2010 targets on renewable energy in Galicia (Spain). Renewable and Sustainable Energy Reviews, 2006, 10, 225-247.	8.2	40
87	Combustion Behavior of Spanish Lignocellulosic Briquettes. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2006, 28, 501-515.	1.2	8
88	Contribution of Renewable Energy Sources to Electricity Production in Galicia (Spain). Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2006, 28, 995-1012.	1.2	10
89	Effect of Different Configurations on Small Pellet Combustion Systems. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2006, 28, 1135-1148.	1.2	10
90	Improvement of a chain-hardening furnace by computational fluid dynamics (CFD) simulation. Applied Energy, 2005, 81, 260-276.	5.1	5

#	ARTICLE	IF	CITATIONS
91	LPG: Pollutant emission and performance enhancement for spark-ignition four strokes outboard engines. <i>Applied Thermal Engineering</i> , 2005, 25, 1882-1893.	3.0	44
92	Feasibility of a new domestic CHP trigeneration with heat pump: I. Design and development. <i>Applied Thermal Engineering</i> , 2004, 24, 1409-1419.	3.0	57
93	Experimental modelling of a pilot lignocellulosic pellets stove plant. <i>Biomass and Bioenergy</i> , 2004, 27, 577-583.	2.9	22
94	Feasibility of a new domestic CHP trigeneration with heat pump: II. Availability analysis. <i>Applied Thermal Engineering</i> , 2004, 24, 1421-1429.	3.0	42
95	Viability of LPG use in low-power outboard engines for reduction in consumption and pollutant emissions. <i>International Journal of Energy Research</i> , 2003, 27, 467-480.	2.2	17
96	Pellet Combustion in Stove: Performance and Emissions Statistical Approach. <i>Renewable Energy and Power Quality Journal</i> , 2003, 1, 641-646.	0.2	2
97	Preheating In Pellet Stoves: Effect in Energy Balance and Emissions. <i>Renewable Energy and Power Quality Journal</i> , 2003, 1, 636-640.	0.2	0
98	Prediction of global daily solar radiation using higher order statistics. <i>Renewable Energy</i> , 2002, 27, 647-666.	4.3	58
99	Prediction of the properties of Spanish lignocellulosic briquettes by means of dispersive X-ray fluorescence. <i>Renewable Energy</i> , 2002, 27, 575-584.	4.3	4
100	Fuel lignocellulosic briquettes, die design and products study. <i>Renewable Energy</i> , 2002, 27, 561-573.	4.3	68
101	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> , 2001, 23, 123-134.	4.3	6
102	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> , 2001, 23, 135-149.	4.3	2
103	Proposal for the use of renewable energy in the La Rioja autonomous community (LRAC) (Spain). <i>Renewable Energy</i> , 2000, 20, 289-304.	4.3	10
104	Feasibility study of energy use for densificated lignocellulosic material (briquettes). <i>Fuel</i> , 2000, 79, 1229-1237.	3.4	28
105	Measuring and Predicting the Slagging of Woody and Herbaceous Mediterranean Biomass Fuels on a Domestic Pellet Boiler. <i>Energy & Fuels</i> , 0, , .	2.5	16