José Ignacio Huertas-Cardozo

List of Publications by Year
in descending order

66 papers	**1,007** citations	430442 **18** h-index	454577 **30** g-index
68 all docs	**68** docs citations	**68** times ranked	**1045** citing authors

#	Article	IF	Citations
1	Air quality impact assessment of multiple open pit coal mines in northern Colombia. Journal of Environmental Management, 2012, 93, 121-129.	3.8	97
2	Volatile organic compounds in the atmosphere of Mexico City. Atmospheric Environment, 2015, 119, 415-429.	1.9	85
3	The Effect of Using Ethanol-Gasoline Blends on the Mechanical, Energy and Environmental Performance of In-Use Vehicles. Energies, 2018, 11, 221.	1.6	60
4	Real emissions, driving patterns and fuel consumption of in-use diesel buses operating at high altitude. Transportation Research, Part D: Transport and Environment, 2019, 77, 21-36.	3.2	59
5	Eco-driving key factors that influence fuel consumption in heavy-truck fleets: A Colombian case. Transportation Research, Part D: Transport and Environment, 2017, 56, 258-270.	3.2	51
6	Characterization of airborne particles in an open pit mining region. Science of the Total Environment, 2012, 423, 39-46.	3.9	50
7	CO_2 Absorbing Capacity of MEA. Journal of Chemistry, 2015, 2015, 1-7.	0.9	50
8	Standardized emissions inventory methodology for open-pit mining areas. Environmental Science and Pollution Research, 2012, 19, 2784-2794.	2.7	44
9	Sensors for Sustainable Smart Cities: A Review. Applied Sciences (Switzerland), 2021, 11, 8198.	1.3	43
10	Assessment of the natural sources of particulate matter on the opencast mines air quality. Science of the Total Environment, 2014, 493, 1047-1055.	3.9	32
11	Aircraft maintenance, routing, and crew scheduling planning for airlines with a single fleet and a single maintenance and crew base. Computers and Industrial Engineering, 2014, 75, 68-78.	3.4	32
12	Driving Cycles Based on Fuel Consumption. Energies, 2018, 11, 3064.	1.6	30
13	Driving cycles that reproduce driving patterns, energy consumptions and tailpipe emissions. Transportation Research, Part D: Transport and Environment, 2020, 82, 102294.	3.2	27
14	Volatile organic compounds in Tijuana during the Cal-Mex 2010 campaign: Measurements and source apportionment. Atmospheric Environment, 2013, 70, 521-531.	1.9	25
15	A new methodology to determine typical driving cycles for the design of vehicles power trains. International Journal on Interactive Design and Manufacturing, 2018, 12, 319-326.	1.3	25
16	Comparison of Three Methods for Constructing Real Driving Cycles. Energies, 2019, 12, 665.	1.6	23
17	Monte Carlo Simulation of Multicomponent Aerosols Undergoing Simultaneous Coagulation and Condensation. Aerosol Science and Technology, 2004, 38, 963-971.	1.5	21
18	Gas-phase combustion synthesis of aluminum nitride powder. Proceedings of the Combustion Institute, 1996, 26, 1891-1897.	0.3	20

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19	Real-world emissions of in-use off-road vehicles in Mexico. Journal of the Air and Waste Management Association, 2017, 67, 958-972.	0.9	18
20	Eco-driving by replicating best driving practices. International Journal of Sustainable Transportation, 2018, 12, 107-116.	2.1	15
21	A Heat Conduction Microcalorimeter for the Determination of the Immersion Heats of Activated Carbon into Phenol Aqueous Solutions. Instrumentation Science and Technology, 2003, 31, 385-397.	0.9	13
22	Layout evaluation of large capacity warehouses. Facilities, 2007, 25, 259-270.	0.8	13
23	An experimental and numerical study of air pollution near unpaved roads. Air Quality, Atmosphere and Health, 2019, 12, 471-489.	1.5	13
24	Assessment of the effect of using air conditioning on the vehicle's real fuel consumption. International Journal on Interactive Design and Manufacturing, 2021, 15, 271-285.	1.3	13
25	Nano-Phase W and W-Ti Composite via Gas-Phase Combustion Synthesis. Materials and Manufacturing Processes, 1996, 11, 1043-1053.	2.7	12
26	Wireless Data Transmission from Inside Electromagnetic Fields. Journal of Microwave Power and Electromagnetic Energy, 2010, 44, 88-97.	0.4	11
27	HEAT CONDUCTION MICRO-CALORIMETER WITH METALLIC REACTION CELL AND IMPROVED HEAT FLUX SENSING SYSTEM. Instrumentation Science and Technology, 2002, 30, 177-186.	0.9	10
28	Assessing precision and accuracy of atmospheric emission inventories. International Journal of Environmental Science and Technology, 2012, 9, 195-202.	1.8	10
29	Main characteristic parameters to describe driving patterns and construct driving cycles. Transportation Research, Part D: Transport and Environment, 2021, 97, 102959.	3.2	10
30	Campus City Project: Challenge Living Lab for Smart Cities. Applied Sciences (Switzerland), 2021, 11, 11085.	1.3	9
31	Resonant fatigue test bench for shaft testing. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 364-374.	1.7	7
32	Assessment of the Reduction in Vehicles Emissions by Implementing Inspection and Maintenance Programs. International Journal of Environmental Research and Public Health, 2020, 17, 4730.	1.2	7
33	Numerical approximation to the effects of the atmospheric stability conditions on the dispersion of pollutants over flat areas. Scientific Reports, 2021, 11, 11566.	1.6	6
34	LED street lighting as a strategy for climate change mitigation at local government level. , 2014, , .		5
35	Determination of the Area Affected by Agricultural Burning. Atmosphere, 2019, 10, 312.	1.0	5
36	Design of Road-Side Barriers to Mitigate Air Pollution near Roads. Applied Sciences (Switzerland), 2021, 11, 2391.	1.3	5

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37	Wireless data transmission from inside electromagnetic fields. , 2009, , .		4
38	Vehicular road influence areas. Atmospheric Environment, 2017, 151, 108-116.	1.9	4
39	A continuous time model for a short-term multiproduct batch process scheduling. Ingenieria E Investigacion, 2018, 38, 96-104.	0.2	4
40	Real vehicle fuel consumption in logistic corridors. Applied Energy, 2022, 314, 118921.	5.1	4
41	Caracterización de Partículas Suspendidas (PST) y Partículas Respirables (PM 10) producidas en Áreas de Explotación Carbonífera a Cielo Abierto. Informacion Tecnologica (discontinued), 2011, 22, 23-34.	0.1	3
42	Removal of main exhaust gases of vehicles by a double dielectric barrier discharge. Journal of Physics: Conference Series, 2012, 370, 012023.	0.3	3
43	CFD Modeling of Near-Roadway Air Pollution. Environmental Modeling and Assessment, 2020, 25, 129-145.	1.2	3
44	The Effect of Driving Cycle Duration on Its Representativeness. World Electric Vehicle Journal, 2021, 12, 212.	1.6	3
45	Configuration of Electric Vehicles for Specific Applications from a Holistic Perspective. World Electric Vehicle Journal, 2022, 13, 29.	1.6	3
46	Using neural networks to identify annoying noises in vehicles. International Journal of Vehicle Noise and Vibration, 2006, 2, 177.	0.0	2
47	Characterisation of adaptive filters used in the identification process of annoying noises in vehicles. International Journal of Vehicle Noise and Vibration, 2006, 2, 101.	0.0	2
48	The Role of Science in Advising the Decision Making Process: A Pathway for Building Effective Climate Change Mitigation Policies in Mexico at the Local Level. International Journal of Environmental Research and Public Health, 2016, 13, 451.	1.2	2
49	Potential environmental impact of I/M Programs in Urban Centers based on RSD monitoring campaigns. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012015.	0.2	2
50	Increasing productivity and reducing energy consumption in the pizza industry by the synergetic combination of cooking technologies. Journal of Food Processing and Preservation, 2021, 45, e15286.	0.9	2
51	Considering Competition to Solve a Flight Schedule and Aircraft Routing Problem for Small Airlines. Journal of Applied Research and Technology, 2012, 10, .	0.6	2
52	Using Neural Networks to Identify Squeaks and Rattles in Vehicles. , 2006, , .		1
53	H2S and CO2 Filtration of Biogas Used in Internal Combustion Engines for Power Generation. , 2009, , .		1
54	Determination of pizzas quality and acceptability by physic-mechanical tests. Journal of Food Science and Technology, 2022, 59, 1384-1395.	1.4	1

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55	Driving cycle and emission factors in high-altitude cities: Riobamba case. , 2020, , .		1
56	Root causes of the differences in the real-world vehicle emissions between Mexico and the US. Transportation Research, Part D: Transport and Environment, 2022, 102, 103153.	3.2	1
57	Identification of Annoying Noises in Vehicles. , 2003, , .		0
58	Air Dispersion Model to Forecast Pollutant Concentration Around Thermal Power Plants. , 2006, , 531.		0
59	Engine Simulator for ECMs Diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 147-151.	0.4	0
60	Modeling Dispersion of PM10 and PST in the Cesar Department Mining Region, Colombia by Using ISC and AERMOD. , 2010, , .		0
61	Non-thermal plasma for exhaust gases treatment. Frontiers of Mechanical Engineering, 2015, 10, 301-305.	2.5	0
62	Impact of the Vehicle Air Conditioning on Fuel Consumption under Real-world Conditions. , 2020, , .		0
63	Methodology to Assess Sustainable Mobility in LATAM Cities. Applied Sciences (Switzerland), 2021, 11, 9592.	1.3	0
64	Model to Estimate Mass Emissions of Atmospheric Pollutants in Thermal Power Plants. , 2007, , .		0
65	Engine Simulator for ECMs Diagnosis. , 2008, , .		0
66	Low-cost and high-precision labs to promote active learning in online learning environments. , 2020, , .		0