PatrÃ-cia C Baptista

List of Publications by Year
in descending order

84 papers	**2,163** citations

218381
26 h-index

264894
42 g-index

84 all docs	**84** docs citations

84 times ranked

2097 citing authors

#	Article	IF	Citations
1	Energy, Environmental and Mobility Impacts of Car-sharing Systems. Empirical Results from Lisbon, Portugal. Procedia, Social and Behavioral Sciences, 2014, 111, 28-37.	0.5	151
2	Evaluating the impacts of using cargo cycles on urban logistics: integrating traffic, environmental and operational boundaries. European Transport Research Review, 2017, 9, .	2.3	101
3	Multivariate near infrared spectroscopy models for predicting methanol and water content in biodiesel. Analytica Chimica Acta, 2007, 595, 107-113.	2.6	100
4	Plug-in hybrid fuel cell vehicles market penetration scenarios. International Journal of Hydrogen Energy, 2010, 35, 10024-10030.	3.8	90
5	Multivariate near infrared spectroscopy models for predicting the iodine value, CFPP, kinematic viscosity at 40 Â°C and density at 15 Â°C of biodiesel. Talanta, 2008, 77, 144-151.	2.9	77
6	Multivariate near infrared spectroscopy models for predicting the methyl esters content in biodiesel. Analytica Chimica Acta, 2008, 607, 153-159.	2.6	73
7	Indirect methodologies to estimate energy use in vehicles: Application to battery electric vehicles. Energy Conversion and Management, 2016, 124, 116-129.	4.4	60
8	Assessing the influence of boundary conditions, driving behavior and data analysis methods on real driving CO2 and NOx emissions. Science of the Total Environment, 2019, 658, 879-894.	3.9	57
9	Assessment of offloading pathways for wind-powered offshore hydrogen production: Energy and economic analysis. Applied Energy, 2021, 286, 116553.	5.1	57
10	Fuel cell hybrid taxi life cycle analysis. Energy Policy, 2011, 39, 4683-4691.	4.2	56
11	Energy and environmental impacts of alternative pathways for the Portuguese road transportation sector. Energy Policy, 2012, 51, 802-815.	4.2	56
12	Monitoring Biodiesel Fuel Quality by near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2007, 15, 97-105.	0.8	53
13	Engine cold start analysis using naturalistic driving data: City level impacts on local pollutants emissions and energy consumption. Science of the Total Environment, 2018, 630, 544-559.	3.9	50
14	Establishing bonds between vehicle certification data and real-world vehicle fuel consumption â€" A Vehicle Specific Power approach. Energy Conversion and Management, 2015, 92, 251-265.	4.4	47
15	Energy reduction potential from the shift to electric vehicles: The Flores island case study. Energy Policy, 2014, 67, 37-47.	4.2	45
16	Assessing the performance of vehicles powered by battery, fuel cell and ultra-capacitor: Application to light-duty vehicles and buses. Energy Conversion and Management, 2021, 229, 113767.	4.4	45
17	Capacity-sharing in logistics solutions: A new pathway towards sustainability. Transport Policy, 2019, 73, 143-151.	3.4	43
18	Designing a municipal sustainable energy strategy using multi-criteria decision analysis. Journal of Cleaner Production, 2018, 176, 251-260.	4.6	39

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19	How do road grade, road type and driving aggressiveness impact vehicle fuel consumption? Assessing potential fuel savings in Lisbon, Portugal. Transportation Research, Part D: Transport and Environment, 2019, 72, 148-161.	3.2	37
20	Guiding cities to pursue a smart mobility paradigm: An example from vehicle routing guidance and its traffic and operational effects. Research in Transportation Economics, 2017, 65, 24-33.	2.2	36
21	How battery electric vehicles can contribute to sustainable urban logistics: A real-world application in Lisbon, Portugal. Sustainable Energy Technologies and Assessments, 2016, 15, 71-78.	1.7	35
22	Promotion of renewable energy sources in the Portuguese transport sector: A scenario analysis. Journal of Cleaner Production, 2018, 186, 918-932.	4.6	34
23	Comparing the Use of Small Sized Electric Vehicles with Diesel Vans on City Logistics. Procedia, Social and Behavioral Sciences, 2014, 111, 350-359.	0.5	33
24	Quantification of technical impacts and environmental benefits of electric vehicles integration on electricity grids. , 2009, , .		31
25	From on-road trial evaluation of electric and conventional bicycles to comparison with other urban transport modes: Case study in the city of Lisbon, Portugal. Energy Conversion and Management, 2015, 92, 10-18.	4.4	30
26	Evaluation of the benefits of the introduction of electricity powered vehicles in an island. Energy Conversion and Management, 2013, 76, 541-553.	4.4	29
27	Impacts of On-board Devices and Training on Light Duty Vehicle Driving Behavior. Procedia, Social and Behavioral Sciences, 2014, 111, 711-720.	0.5	29
28	Comparison of Data Analysis Methods for European Real Driving Emissions Regulation. , 0, , .		29
29	Photovoltaic integrated electric vehicles: Assessment of synergies between solar energy, vehicle types and usage patterns. Journal of Cleaner Production, 2022, 348, 131402.	4.6	29
30	Quantification of the Impacts of Eco-driving Training and Real-time Feedback on Urban Buses Driver's Behaviour. Transportation Research Procedia, 2014, 3, 70-79.	0.8	28
31	Assessment of multiple-based demand response actions for peak residential electricity reduction in Ghana. Sustainable Cities and Society, 2020, 59, 102235.	5.1	27
32	Sustainable and inclusive energy solutions in refugee camps: Developing a modelling approach for energy demand and alternative renewable power supply. Journal of Cleaner Production, 2021, 298, 126745.	4.6	27
33	Monitoring the Quality of Oils for Biodiesel Production Using Multivariate near Infrared Spectroscopy Models. Journal of Near Infrared Spectroscopy, 2008, 16, 445-454.	0.8	25
34	Electric vehicle parking in European and American context: Economic, energy and environmental analysis. Transportation Research, Part A: Policy and Practice, 2014, 64, 110-121.	2.0	24
35	Disaggregation and characterization of residential electricity use: Analysis for Ghana. Sustainable Cities and Society, 2019, 48, 101586.	5.1	23
36	Driving for decarbonization: Assessing the energy, environmental, and economic benefits of less aggressive driving in Lisbon, Portugal. Energy Research and Social Science, 2019, 47, 113-127.	3.0	23

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37	Introducing specific power to bicycles and motorcycles: Application to electric mobility. Transportation Research Part C: Emerging Technologies, 2015, 51, 120-135.	3.9	22
38	Energy efficiency deployment: A pathway to sustainable electrification in Ghana. Journal of Cleaner Production, 2018, 186, 544-557.	4.6	22
39	Assessment of wireless charging impacts based on real-world driving patterns: Case study in Lisbon, Portugal. Sustainable Cities and Society, 2021, 71, 102952.	5.1	22
40	Comparing the Use of Small Sized Electric Vehicles with Diesel Vans on City Logistics. Procedia, Social and Behavioral Sciences, 2014, 111, 1265-1274.	0.5	20
41	Analysis of the Influence of Outdoor Temperature in Vehicle Cold-Start Operation Following EU Real Driving Emission Test Procedure. SAE International Journal of Commercial Vehicles, 0, 10, 596-697.	0.4	20
42	Modelling approach for assessing influential factors for EV energy performance. Sustainable Energy Technologies and Assessments, 2021, 44, 100984.	1.7	19
43	Impacts of delayed feedback on eco-driving behavior and resulting environmental performance changes. Transportation Research Part F: Traffic Psychology and Behaviour, 2016, 43, 366-378.	1.8	17
44	Assessing the impacts of driving environment on driving behavior patterns. Transportation, 2020, 47, 1311-1337.	2.1	17
45	Assessing the costs of contributing to climate change targets in sub-Saharan Africa: The case of the Ghanaian electricity system. Energy for Sustainable Development, 2020, 57, 32-47.	2.0	17
46	Real-Time Feedback Impacts on Eco-Driving Behavior and Influential Variables in Fuel Consumption in a Lisbon Urban Bus Operator. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3061-3071.	4.7	15
47	Evaluation of Alternatives for the Passenger Road Transport Sector in Europe: A Life-Cycle Assessment Approach. Environments - MDPI, 2018, 5, 21.	1.5	15
48	Assessing electric mobility feasibility based on naturalistic driving data. Journal of Cleaner Production, 2019, 206, 646-660.	4.6	14
49	Spatial Planning of Electric Vehicle Infrastructure for Belo Horizonte, Brazil. Journal of Advanced Transportation, 2018, 2018, 1-16.	0.9	12
50	The Contribution of Car Sharing to the Sustainable Mobility Transition. Transfers, 2018, 8, 113-121.	0.3	12
51	Including engine data for energy and pollutants assessment into the vehicle specific power methodology. Applied Energy, 2022, 311, 118690.	5.1	12
52	The Cost and Effectiveness of Sustainable City Logistics Policies Using Small Electric Vehicles. Transport and Sustainability, 2014, , 295-314.	0.2	11
53	ICT Solutions in Transportation Systems: Estimating the Benefits and Environmental Impacts in the Lisbon. Procedia, Social and Behavioral Sciences, 2012, 54, 716-725.	0.5	10
54	Plug-In Vehicle Acceptance and Probable Utilization Behaviour. Journal of Transportation Technologies, 2012, 02, 67-74.	0.2	10

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55	Car Sharing Systems as a Sustainable Transport Policy: A Case Study from Lisbon, Portugal. Transport and Sustainability, 2015, , 205-227.	0.2	9
56	Scenario-based analysis of traffic-related PM2.5 concentration: Lisbon case study. Environmental Science and Pollution Research, 2017, 24, 12026-12037.	2.7	9
57	Identifying driving behavior patterns and their impacts on fuel use. Transportation Research Procedia, 2017, 27, 953-960.	0.8	9
58	Assessing energy consumption impacts of traffic shifts based on real-world driving data. Transportation Research, Part D: Transport and Environment, 2018, 62, 489-507.	3.2	9
59	Novel approach for connecting real driving emissions to the European vehicle laboratorial certification test procedure. Environmental Science and Pollution Research, 2019, 26, 35163-35182.	2.7	9
60	Use of waste vegetable oil for hydrotreated vegetable oil production with high-temperature electrolysis as hydrogen source. Fuel, 2020, 278, 117991.	3.4	9
61	Evaluation of low power electric vehicles in demanding urban conditions: An application to Lisbon. , 2013, , .		8
62	Comparing driversâ€™ self-perception on driving behaviour changes with real world driving performance data: Lisbon case-study. Travel Behaviour & Society, 2018, 11, 86-92.	2.4	8
63	Climate Change Mitigation Policies in the Transportation Sector in Rio de Janeiro, Brazil. Environments - MDPI, 2020, 7, 99.	1.5	8
64	From Microcars to Heavy-Duty Vehicles: Vehicle Performance Comparison of Battery and Fuel Cell Electric Vehicles. Vehicles, 2021, 3, 691-720.	1.7	8
65	Assessment of decarbonization alternatives for passenger transportation in Rio de Janeiro, Brazil. Transportation Research, Part D: Transport and Environment, 2022, 103, 103161.	3.2	8
66	Enhanced biogas production from anaerobic co-digestion of pig slurry and horse manure with mechanical pre-treatment. Environmental Technology (United Kingdom), 2019, 40, 1289-1297.	1.2	7
67	CO2 emissions and mitigation policies for urban road transportation: Sao Paulo versus Shanghai. Urbe, 2018, 10, 143-158.	0.3	6
68	Assessment of particulate matter levels and sources in a street canyon at Loures, Portugal â€“ A case study of the REMEDIO project. Atmospheric Pollution Research, 2020, 11, 1857-1869.	1.8	6
69	Monitoring and Simulation of Fuel Cell Electric Vehicles. World Electric Vehicle Journal, 2009, 3, 511-518.	1.6	5
70	Suitable Locations for Electric Vehicles Charging Infrastructure in Rio De Janeiro, Brazil. , 2017, , .		5
71	Sharing Lisboa: A Digital Social Market to Promote Sustainable and Energy Efficient Behaviours. Climate, 2021, 9, 34.	1.2	5
72	Full life cycle analysis of market penetration of electricity based vehicles. World Electric Vehicle Journal, 2009, 3, 505-510.	1.6	3

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73	Energy and Environmental Impacts of Potential Application of Fully or Partially Electric Propulsion Vehicles: Application to Lisbon and SÃ£o Miguel, Portugal. Transportation Research Procedia, 2014, 3, 750-759.	0.8	3
74	The use of alternative fuels to mitigate climate change impacts in the transportation sector in Rio de Janeiro, Brazil. Transportation Research Procedia, 2022, 62, 752-759.	0.8	3
75	Fuel Cell Hybrid Taxi Well-to-Wheel Life-Cycle Analysis. World Electric Vehicle Journal, 2010, 4, 798-803.	1.6	2
76	Electric vehicle adopters' motivation, utilization patterns and environmental impacts: A Lisbon case study. , 2013, , .		2
77	Impacts of topography and weather barriers on commercial cargo bicycle energy using urban delivery crowdsourced cycling data. Sustainable Cities and Society, 2022, 76, 103326.	5.1	2
78	ICT for Mobility Pattern and Driver Behavior Characterization: Trial Case-Study in the City of Lisbon, Portugal. , 2014, , .		1
79	Impact on Biker Effort of Electric Bicycle Utilization: Results from On-Road Monitoring in Lisbon, Portugal. Lecture Notes in Computer Science, 2014, , 119-133.	1.0	1
80	URBAN MOBILITY STRATEGIES TO IMPROVE LOCAL AIR QUALITY: CASE STUDY OF LISBON, PORTUGAL. WIT Transactions on Ecology and the Environment, 2019, , .	0.0	1
81	Effects of temperature on economic attractiveness and airborne emissions' external costs of large battery electric and diesel delivery vans. Economics and Policy of Energy and the Environment, 2020, , 95-151.	0.1	1
82	Predicting Methanol and Water Content in Biodiesel by near Infrared Spectroscopy. NIR News, 2008, 19, 7-9.	1.6	0
83	Assessing the impact of electricity interconnections to achieve the EU targets for CO<inf>2</inf> emissions reduction. , 2015, , .		0
84	Systematic Method for Developing Reference Driving Cycles Appropriate to Electric L-Category Vehicles. Energies, 2022, 15, 3466.	1.6	0