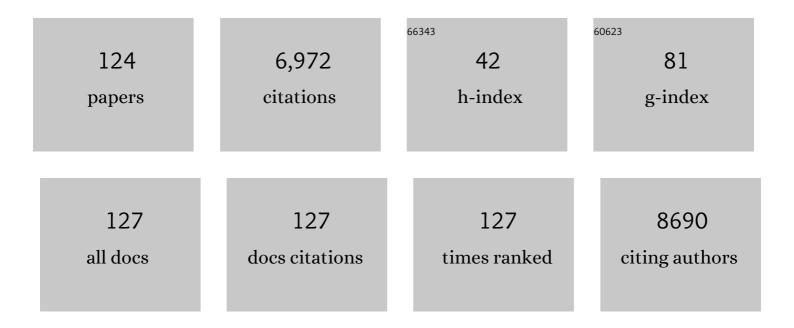
Maria Cm Alvim-Ferraz

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Estimating the health and economic burden of shipping related air pollution in the Iberian Peninsula. Environment International, 2021, 156, 106763.	10.0	19
2	Health economic assessment of a shift to active transport. Environmental Pollution, 2020, 258, 113745.	7.5	17
3	Impact of indoor air pollution in nursery and primary schools on childhood asthma. Science of the Total Environment, 2020, 745, 140982.	8.0	26
4	Development of low-cost indoor air quality monitoring devices: Recent advancements. Science of the Total Environment, 2020, 727, 138385.	8.0	99
5	Monitoring Enzymatic Hydroesterification of Low-Cost Feedstocks by Fourier Transform InfraRed Spectroscopy. Catalysts, 2019, 9, 535.	3.5	12
6	Environmental and social valuation of shipping emissions on four ports of Portugal. Journal of Environmental Management, 2019, 235, 62-69.	7.8	35
7	Quantifying indoor air quality determinants in urban and rural nursery and primary schools. Environmental Research, 2019, 176, 108534.	7.5	51
8	Integrated production of biodiesel and bioethanol from sweet potato. Renewable Energy, 2018, 124, 114-120.	8.9	47
9	Effect of Crambe abyssinica oil degumming in phosphorus concentration of refined oil and derived biodiesel. Renewable Energy, 2018, 124, 27-33.	8.9	21
10	RECOVERY OF BY-PRODUCTS FROM THE OLIVE OIL PRODUCTION AND THE VEGETABLE OIL REFINING FOR BIODIESEL PRODUCTION. Detritus, 2018, In Press, 1.	0.9	1
11	Photobioreactor design for microalgae production through computational fluid dynamics: A review. Renewable and Sustainable Energy Reviews, 2017, 79, 248-254.	16.4	122
12	Assessment of shipping emissions on four ports of Portugal. Environmental Pollution, 2017, 231, 1370-1379.	7.5	60
13	The activity-based methodology to assess ship emissions - A review. Environmental Pollution, 2017, 231, 87-103.	7.5	102
14	Integration of Microalgae-Based Bioenergy Production into a Petrochemical Complex: Techno-Economic Assessment. Energies, 2016, 9, 224.	3.1	18
15	Children's Exposure to Radon in Nursery and Primary Schools. International Journal of Environmental Research and Public Health, 2016, 13, 386.	2.6	22
16	Asthma prevalence in Portuguese preschool children: The latest scientific evidence. Revista Portuguesa De Pneumologia, 2016, 22, 293-295.	0.7	5
17	Asthma prevalence and risk factors in early childhood at Northern Portugal. Revista Portuguesa De Pneumologia, 2016, 22, 146-150.	0.7	12
18	Gaseous pollutants on rural and urban nursery schools in Northern Portugal. Environmental Pollution, 2016, 208, 2-15.	7.5	24

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19	Exploratory study on internal recycling of crude glycerol for biodiesel production: Catalyst replacement. Chemical Industry and Chemical Engineering Quarterly, 2016, 22, 445-452.	0.7	3
20	Children's exposure to indoor air in urban nurseries – Part II: Gaseous pollutants' assessment. Environmental Research, 2015, 142, 662-670.	7.5	39
21	Particulate matter in rural and urban nursery schools in Portugal. Environmental Pollution, 2015, 202, 7-16.	7.5	37
22	Children's exposure to indoor air in urban nurseries-part I: CO2 and comfort assessment. Environmental Research, 2015, 140, 1-9.	7.5	45
23	Radon Levels in Nurseries and Primary Schools in <i>Bragança</i> District—Preliminary Assessment. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 805-813.	2.3	10
24	Towards sustainable microalgal biomass production by phycoremediation of a synthetic wastewater: A kinetic study. Algal Research, 2015, 11, 350-358.	4.6	56
25	Glycerol-enriched heterogeneous catalyst for biodiesel production from soybean oil and waste frying oil. Energy Conversion and Management, 2015, 89, 665-671.	9.2	40
26	Effect of light supply on CO2 capture from atmosphere by Chlorella vulgaris and Pseudokirchneriella subcapitata. Mitigation and Adaptation Strategies for Global Change, 2014, 19, 1109-1117.	2.1	26
27	Study of an ethylic biodiesel integrated process: Raw-materials, reaction optimization and purification methods. Fuel Processing Technology, 2014, 124, 198-205.	7.2	18
28	Water-free process for eco-friendly purification of biodiesel obtained using a heterogeneous Ca-based catalyst. Fuel Processing Technology, 2014, 121, 114-118.	7.2	25
29	Indoor air quality in urban nurseries at Porto city: Particulate matter assessment. Atmospheric Environment, 2014, 84, 133-143.	4.1	70
30	The microenvironmental modelling approach to assess children's exposure to air pollution – A review. Environmental Research, 2014, 135, 317-332.	7.5	45
31	Multiple Linear Regression and Artificial Neural Networks to Predict Time and Efficiency of Soil Vapor Extraction. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	9
32	PAH air pollution at a Portuguese urban area: carcinogenic risks and sources identification. Environmental Science and Pollution Research, 2013, 20, 3932-3945.	5.3	83
33	Evaluation of atmospheric deposition and patterns of polycyclic aromatic hydrocarbons in façades of historic monuments of Oporto (Portugal). International Journal of Environmental Analytical Chemistry, 2013, 93, 1052-1064.	3.3	3
34	Impact of vehicular traffic emissions on particulate-bound PAHs: Levels and associated health risks. Atmospheric Research, 2013, 127, 141-147.	4.1	96
35	Health effects of ozone focusing on childhood asthma: What is now known – a review from an epidemiological point of view. Chemosphere, 2013, 90, 2051-2058.	8.2	52
36	Biodiesel production from raw castor oil. Energy, 2013, 53, 58-66.	8.8	127

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37	Biodiesel production using oil from fish canning industry wastes. Energy Conversion and Management, 2013, 74, 17-23.	9.2	88
38	Wastewater treatment to enhance the economic viability of microalgae culture. Environmental Science and Pollution Research, 2013, 20, 5096-5105.	5.3	123
39	Biodiesel production using calcium manganese oxide as catalyst and different raw materials. Energy Conversion and Management, 2013, 65, 647-653.	9.2	61
40	Biocomplementation of SVE to achieve clean-up goals in soils contaminated with toluene and xylene. Environmental Monitoring and Assessment, 2013, 185, 8429-8438.	2.7	3
41	Bioactive Nano-Filters to Control Legionella on Indoor Air. Advanced Materials Research, 2012, 506, 23-26.	0.3	1
42	Comparison of several linear statistical models to predict tropospheric ozone concentrations. Journal of Statistical Computation and Simulation, 2012, 82, 183-192.	1.2	9
43	Elemental Characterization Of Indoor Breathable Particles at a Portuguese Urban Hospital. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2012, 75, 909-919.	2.3	27
44	Surface ozone behaviour at rural sites in Portugal. Atmospheric Research, 2012, 104-105, 164-171.	4.1	21
45	Short-term effects of air pollution on respiratory morbidity at Rio de Janeiro — PART I: Air Pollution Assessment. Environment International, 2012, 44, 18-25.	10.0	10
46	Short-term effects of air pollution on respiratory morbidity at Rio de Janeiro — Part II: Health assessment. Environment International, 2012, 43, 1-5.	10.0	40
47	Indoor air pollution on nurseries and primary schools: impact on childhood asthma â \in study protocol. BMC Public Health, 2012, 12, 435.	2.9	34
48	Sequential Application of Soil Vapor Extraction and Bioremediation Processes for the Remediation of Ethylbenzene-Contaminated Soils. Water, Air, and Soil Pollution, 2012, 223, 2601-2609.	2.4	8
49	Selection of heterogeneous catalysts for biodiesel production from animal fat. Fuel, 2012, 94, 418-425.	6.4	86
50	Carbon dioxide capture from flue gases using microalgae: Engineering aspects and biorefinery concept. Renewable and Sustainable Energy Reviews, 2012, 16, 3043-3053.	16.4	351
51	Remediation of sandy soils contaminated with hydrocarbons and halogenated hydrocarbons by soil vapour extraction. Journal of Environmental Management, 2012, 104, 195-201.	7.8	45
52	Spirometric tests to assess the prevalence of childhood asthma at Portuguese rural areas: Influence of exposure to high ozone levels. Environment International, 2011, 37, 474-478.	10.0	17
53	Identification and origin of nocturnal ozone maxima at urban and rural areas of Northern Portugal – Influence of horizontal transport. Atmospheric Environment, 2011, 45, 942-956.	4.1	30
54	Identification of tobacco smoke components in indoor breathable particles by SEM–EDS. Atmospheric Environment, 2011, 45, 863-872.	4.1	26

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55	Polycyclic aromatic hydrocarbons in gas and particulate phases of indoor environments influenced by tobacco smoke: Levels, phase distributions, and health risks. Atmospheric Environment, 2011, 45, 1799-1808.	4.1	109
56	Recent developments on carbon capture and storage: An overview. Chemical Engineering Research and Design, 2011, 89, 1446-1460.	5.6	604
57	Prediction of tropospheric ozone concentrations: Application of a methodology based on the Darwin's Theory of Evolution. Expert Systems With Applications, 2011, 38, 1903-1908.	7.6	11
58	Air pollution from traffic emissions in Oporto, Portugal: Health and environmental implications. Microchemical Journal, 2011, 99, 51-59.	4.5	84
59	Activated carbon modifications to enhance its water treatment applications. An overview. Journal of Hazardous Materials, 2011, 187, 1-23.	12.4	467
60	Chromatographic Techniques for the Determination of Free Phenol in Foundry Resins. Analytical Letters, 2011, 44, 1536-1543.	1.8	1
61	Outdoor and indoor benzene evaluation by GC-FID and GC-MS/MS. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 181-187.	1.7	2
62	Remediation of coastal sandy soils polluted by petroleum leaks. , 2011, , .		0
63	Evolutionary procedure based model to predict ground–level ozone concentrations. Atmospheric Pollution Research, 2010, 1, 215-219.	3.8	8
64	Influence of land-sea breezes on nocturnal ozone maxima observed in urban sites. International Journal of Environment and Waste Management, 2010, 6, 293.	0.3	6
65	Prediction of PM10 concentrations through multi–gene genetic programming. Atmospheric Pollution Research, 2010, 1, 305-310.	3.8	10
66	Estimation of pollutant partition in sandy soils with different water contents. Environmental Monitoring and Assessment, 2010, 171, 171-180.	2.7	14
67	Remediation of soils combining soil vapor extraction and bioremediation: Benzene. Chemosphere, 2010, 80, 823-828.	8.2	51
68	Influence of Traffic Emissions on the Carcinogenic Polycyclic Aromatic Hydrocarbons in Outdoor Breathable Particles. Journal of the Air and Waste Management Association, 2010, 60, 393-401.	1.9	45
69	Biodiesel Production through Transesterification of Poultry Fat at 30 °C. Energy & Fuels, 2010, 24, 5717-5721.	5.1	25
70	Evaluation of Formaldehyde in Foundry Waste Sands Using Liquid Chromatography. Analytical Letters, 2009, 42, 492-504.	1.8	0
71	Influence of tobacco smoke on the elemental composition of indoor particles of different sizes. Atmospheric Environment, 2009, 43, 486-493.	4.1	64
72	Identification of redundant air quality measurements through the use of principal component analysis. Atmospheric Environment, 2009, 43, 3837-3842.	4.1	36

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73	Influence of tobacco smoke on carcinogenic PAH composition in indoor PM10 and PM2.5. Atmospheric Environment, 2009, 43, 6376-6382.	4.1	44
74	Potentialities of quantile regression to predict ozone concentrations. Environmetrics, 2009, 20, 147-158.	1.4	39
75	Analysis of polycyclic aromatic hydrocarbons in atmospheric particulate samples by microwaveâ€assisted extraction and liquid chromatography. Journal of Separation Science, 2009, 32, 501-510.	2.5	53
76	Ozone exposure and its influence on the worsening of childhood asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2009, 64, 1046-1055.	5.7	24
77	Production of biodiesel from acid waste lard. Bioresource Technology, 2009, 100, 6355-6361.	9.6	145
78	Indoor Air Quality in Schools and Health Symptoms among Portuguese Teachers. Human and Ecological Risk Assessment (HERA), 2009, 15, 159-169.	3.4	53
79	Influence of traffic emissions on the composition of atmospheric particles of different sizes—Part 2: SEM–EDS characterization. Journal of Atmospheric Chemistry, 2008, 60, 221-236.	3.2	48
80	Selection and validation of parameters in multiple linear and principal component regressions. Environmental Modelling and Software, 2008, 23, 50-55.	4.5	66
81	Comparison of the performance of different homogeneous alkali catalysts during transesterification of waste and virgin oils and evaluation of biodiesel quality. Fuel, 2008, 87, 3572-3578.	6.4	268
82	Management of air quality monitoring using principal component and cluster analysis—Part II: CO, NO2 and O3. Atmospheric Environment, 2008, 42, 1261-1274.	4.1	82
83	Management of air quality monitoring using principal component and cluster analysis—Part I: SO2 and PM10. Atmospheric Environment, 2008, 42, 1249-1260.	4.1	121
84	Influence of atmospheric ozone, PM10 and meteorological factors on the concentration of airborne pollen and fungal spores. Atmospheric Environment, 2008, 42, 7452-7464.	4.1	66
85	Mixtures of Vegetable Oils and Animal Fat for Biodiesel Production: Influence on Product Composition and Quality. Energy & Fuels, 2008, 22, 3889-3893.	5.1	75
86	Soil vapor extraction in sandy soils: Influence of airflow rate. Chemosphere, 2008, 73, 1557-1561.	8.2	33
87	Identification of Regions with High Ozone Concentrations Aiming the Impact Assessment on Childhood Asthma. Human and Ecological Risk Assessment (HERA), 2008, 14, 610-622.	3.4	9
88	Air Quality Improvements Using European Environment Policies: A Case Study of SO2in a Coastal Region in Portugal. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 347-351.	2.3	26
89	Poster 18 Principal component and multiple linear regressions to predict ozone concentrations. Developments in Environmental Science, 2007, 6, 790-792.	0.5	0
90	Multiple linear regression and artificial neural networks based on principal components to predict ozone concentrations. Environmental Modelling and Software, 2007, 22, 97-103.	4.5	380

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91	Waste materials for activated carbon preparation and its use in aqueous-phase treatment: A review. Journal of Environmental Management, 2007, 85, 833-846.	7.8	810
92	Influence of traffic emissions on the composition of atmospheric particles of different sizes – Part 1: concentrations and elemental characterization. Journal of Atmospheric Chemistry, 2007, 58, 55-68.	3.2	61
93	Influence of traffic on the elemental composition of PM10 and PM2.5 in Oporto region. WIT Transactions on Ecology and the Environment, 2007, , .	0.0	2
94	Remediation efficiency of vapour extraction of sandy soils contaminated with cyclohexane: Influence of air flow rate, water and natural organic matter content. Environmental Pollution, 2006, 143, 146-152.	7.5	28
95	Soil remediation time to achieve clean-up goals I: Influence of soil water content. Chemosphere, 2006, 62, 853-860.	8.2	10
96	Soil remediation time to achieve clean-up goals II: Influence of natural organic matter and water contents. Chemosphere, 2006, 64, 817-825.	8.2	19
97	Prediction of ozone concentrations in Oporto city with statistical approaches. Chemosphere, 2006, 64, 1141-1149.	8.2	48
98	Contribution of anthropogenic pollutants to the increase of tropospheric ozone levels in the Oporto Metropolitan Area, Portugal since the 19th century. Environmental Pollution, 2006, 140, 516-524.	7.5	46
99	Mapping Carbon Monoxide Using GPS Tracked Sensors. Environmental Monitoring and Assessment, 2006, 101, 203-21.	2.7	30
100	Prediction of the next day maximum ozone concentration using multiple linear and principal component regressions. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	0
101	Effects of air pollution on emergency admissions for chronic obstructive pulmonary diseases in Oporto, Portugal. International Journal of Environment and Pollution, 2005, 23, 42.	0.2	8
102	Catalytic activity of active carbons impregnated before activation of pinewood sawdust and nutshells to be used on the control of atmospheric emissions. Journal of Hazardous Materials, 2005, 119, 135-143.	12.4	13
103	Incineration of healthcare wastes: management of atmospheric emissions through waste segregation. Waste Management, 2005, 25, 638-648.	7.4	48
104	Determination of free furfuryl alcohol in foundry resins by chromatographic techniques. Analytica Chimica Acta, 2005, 537, 47-51.	5.4	19
105	Impregnated Active Carbons to Control Atmospheric Emissions:  Influence of Impregnation Methodology and Raw Material on the Catalytic Activity. Environmental Science & Technology, 2005, 39, 6231-6236.	10.0	8
106	European Directives for Air Quality: Analysis of the New Limits in Comparison with Asthmatic Symptoms in Children Living in the Oporto Metropolitan Area, Portugal. Human and Ecological Risk Assessment (HERA), 2005, 11, 607-616.	3.4	17
107	Active carbons impregnated before activation of olive stones: catalytic activity to remove benzene from gaseous emissions. Journal of Physics and Chemistry of Solids, 2004, 65, 655-659.	4.0	3
108	Micropore Size Distribution of Activated Carbons Impregnated After Carbonization. Journal of Porous Materials, 2003, 10, 47-55.	2.6	9

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109	Dioxin Emission Factors for the Incineration of Different Medical Waste Types. Archives of Environmental Contamination and Toxicology, 2003, 44, 460-466.	4.1	18
110	Incineration of different types of medical wastes: emission factors for gaseous emissions. Atmospheric Environment, 2003, 37, 5415-5422.	4.1	26
111	Impregnated active carbons to control atmospheric emissions. Journal of Colloid and Interface Science, 2003, 259, 133-138.	9.4	15
112	Impregnated active carbons to control atmospheric emissions. Journal of Colloid and Interface Science, 2003, 266, 160-167.	9.4	3
113	Incineration of Different Types of Medical Wastes:Â Emission Factors for Particulate Matter and Heavy Metals. Environmental Science & Technology, 2003, 37, 3152-3157.	10.0	47
114	Activation and Impregnation of Chars $\hat{a} \in \raimedia$ Nutshells and Pinewood Sawdust. Adsorption Science and Technology, 2003, 21, 897-909.	3.2	2
115	Determination of free formaldehyde in foundry resins as its 2,4-dinitrophenylhydrazone by liquid chromatography. Analytica Chimica Acta, 2002, 467, 97-103.	5.4	34
116	Structure of impregnated active carbons produced with almond shells—influence of impregnation methodology. Fuel, 2000, 79, 645-650.	6.4	8
117	Extraction of Chromium from Contaminated Soils. International Journal of Environmental Analytical Chemistry, 1999, 75, 33-42.	3.3	2
118	Control of atmospheric emissions of volatile organic compounds using impregnated active carbons. Fuel, 1999, 78, 1567-1573.	6.4	27
119	Time-series analysis of air pollution data. Atmospheric Environment, 1999, 33, 2361-2372.	4.1	62
120	Evolution of air pollution in Oporto area. Environmental Monitoring and Assessment, 1988, 11, 43-58.	2.7	2
121	Air pollution and lung diseases in Oporto Area. Environmental Monitoring and Assessment, 1988, 11, 183-192.	2.7	4
122	Preparation Of Active Carbon Supported Oxidation Catalysts. Studies in Surface Science and Catalysis, 1983, , 571-577.	1.5	0
123	Textural modifications in impregnated active carbons. Studies in Surface Science and Catalysis, 1982, 10, 239-244.	1.5	0
124	Indoor PM ₁₀ and PM _{2.5} at Nurseries and Primary Schools. Advanced Materials Research, 0, 433-440, 385-390.	0.3	6