

Beatriz Sanchez

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Review on urban tree modelling in CFD simulations: Aerodynamic, deposition and thermal effects. Urban Forestry and Urban Greening, 2018, 31, 212-220.	5.3	135
2	Modelling NOx concentrations through CFD-RANS in an urban hot-spot using high resolution traffic emissions and meteorology from a mesoscale model. Atmospheric Environment, 2017, 163, 155-165.	4.1	55
3	CFD modelling of vegetation barrier effects on the reduction of traffic-related pollutant concentration in an avenue of Pamplona, Spain. Sustainable Cities and Society, 2019, 48, 101559.	10.4	51
4	Application of a short term air quality action plan in Madrid (Spain) under a high-pollution episode - Part II: Assessment from multi-scale modelling. Science of the Total Environment, 2018, 635, 1574-1584.	8.0	46
5	The Impact of Planting Trees on NOx Concentrations: The Case of the Plaza de la Cruz Neighborhood in Pamplona (Spain). Atmosphere, 2017, 8, 131.	2.3	41
6	CFD modeling of reactive pollutant dispersion in simplified urban configurations with different chemical mechanisms. Atmospheric Chemistry and Physics, 2016, 16, 12143-12157.	4.9	38
7	On the Impact of Trees on Ventilation in a Real Street in Pamplona, Spain. Atmosphere, 2019, 10, 697.	2.3	23
8	Performance evaluation of a multiscale modelling system applied to particulate matter dispersion in a real traffic hot spot in Madrid (Spain). Atmospheric Pollution Research, 2020, 11, 141-155.	3.8	21
9	NOx depolluting performance of photocatalytic materials in an urban area – Part I: Monitoring ambient impact. Atmospheric Environment, 2021, 251, 118190.	4.1	9
10	NO depolluting performance of photocatalytic materials in an urban area - Part II: Assessment through Computational Fluid Dynamics simulations. Atmospheric Environment, 2021, 246, 118091.	4.1	7
11	Simulating the meteorology during persistent Wintertime Thermal Inversions over urban areas. The case of Madrid. Atmospheric Research, 2021, 263, 105789.	4.1	6
12	Assessment of a meteorological mesoscale model's capability to simulate intra-urban thermal variability in a tropical city. Urban Climate, 2021, 40, 101006.	5.7	5
13	High Spatial Resolution Assessment of the Effect of the Spanish National Air Pollution Control Programme on Street-Level NO2 Concentrations in Three Neighborhoods of Madrid (Spain) Using Mesoscale and CFD Modelling. Atmosphere, 2022, 13, 248.	2.3	4
14	Simulating the pollutant dispersion during persistent Wintertime thermal Inversions over urban areas. The case of Madrid. Atmospheric Research, 2022, 270, 106058.	4.1	3