John G Bartzis

List of Publications by Year
in descending order

61 papers	1,886 citations	279798 23 h-index	265206 42 g-index
62 all docs	62 docs citations	62 times ranked	2112 citing authors

#	Article	IF	Citations
1	Assessment of indoor air quality in office buildings across Europe â€“ The OFFICAIR study. Science of the Total Environment, 2017, 579, 169-178.	8.0	133
2	PM2.5 chemical composition in five European Mediterranean cities: A 1-year study. Atmospheric Research, 2015, 155, 102-117.	4.1	128
3	Perceived Indoor Environment and Occupantsâ€™ Comfort in European â€œModernâ€•Office Buildings: The OFFICAIR Study. International Journal of Environmental Research and Public Health, 2016, 13, 444.	2.6	124
4	Evaluation of Reynolds stress, k-Îµ and RNG k-Îµ turbulence models in street canyon flows using various experimental datasets. Environmental Fluid Mechanics, 2012, 12, 379-403.	1.6	108
5	Indoor air pollution, physical and comfort parameters related to schoolchildren's health: Data from the European SINPHONIE study. Science of the Total Environment, 2020, 739, 139870.	8.0	94
6	Mediterranean rural ozone characteristics around the urban area of Athens. Atmospheric Environment, 2000, 34, 5199-5208.	4.1	92
7	Indoor air quality investigation of the school environment and estimated health risks: Two-season measurements in primary schools in Kozani, Greece. Atmospheric Pollution Research, 2016, 7, 1128-1142.	3.8	84
8	VOCs and aldehydes source identification in European office buildingsÂ- The OFFICAIR study. Building and Environment, 2017, 115, 18-24.	6.9	80
9	CFD-RANS model validation of turbulent flow in a semi-idealized urban canopy. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 111, 61-72.	3.9	70
10	PM2.5 source apportionment for the port city of Thessaloniki, Greece. Science of the Total Environment, 2019, 650, 2337-2354.	8.0	69
11	COST 732 in practice: the MUST model evaluation exercise. International Journal of Environment and Pollution, 2011, 44, 403.	0.2	67
12	Advances in air quality research â€“ current and emerging challenges. Atmospheric Chemistry and Physics, 2022, 22, 4615-4703.	4.9	63
13	Oxidative potential and chemical composition of PM2.5 in office buildings across Europe â€“ The OFFICAIR study. Environment International, 2016, 92-93, 324-333.	10.0	56
14	Concentration and chemical composition of PM2.5 for a one-year period at Thessaloniki, Greece: A comparison between city and port area. Atmospheric Environment, 2015, 113, 197-207.	4.1	50
15	ADREA-I: A Three-Dimensional Transient Transport Code for Complex Terrain and Other Applications. Nuclear Technology, 1991, 94, 135-148.	1.2	44
16	An integrated multi-model approach for air quality assessment: Development and evaluation of the OSCAR Air Quality Assessment System. Environmental Modelling and Software, 2008, 23, 268-281.	4.5	39
17	Indoor gaseous air pollutants determinants in office buildingsâ€”The OFFICAIR project. Indoor Air, 2020, 30, 76-87.	4.3	39
18	Association of subjective health symptoms with indoor air quality in European office buildings: The OFFICAIR project. Indoor Air, 2021, 31, 426-439.	4.3	38

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19	One-year intensive characterization on PM2.5 nearby port area of Thessaloniki, Greece. Environmental Science and Pollution Research, 2015, 22, 6812-6826.	5.3	33
20	Office characteristics and dry eye complaints in European workersâ€“The OFFICAIR study. Building and Environment, 2016, 102, 54-63.	6.9	33
21	Investigation of the PM2.5, NO2 and O3 I/O ratios for office and school microenvironments.. Environmental Research, 2019, 179, 108791.	7.5	26
22	Identification of strength and location of stationary point source of atmospheric pollutant in urban conditions using computational fluid dynamics model. Mathematics and Computers in Simulation, 2011, 82, 244-257.	4.4	25
23	Methods for comparing gridded inventories of atmospheric emissionsâ€"application for Milan province, Italy and the Greater Athens Area, Greece. Science of the Total Environment, 2003, 303, 231-243.	8.0	24
24	PAHs sources contribution to the air quality of an office environment: experimental results and receptor model (PMF) application. Air Quality, Atmosphere and Health, 2010, 3, 225-234.	3.3	24
25	Prediction of high concentrations and concentration distribution of a continuous point source release in a semi-idealized urban canopy using CFD-RANS modeling. Atmospheric Environment, 2015, 100, 48-56.	4.1	23
26	Personal Control of the Indoor Environment in Offices: Relations with Building Characteristics, Influence on Occupant Perception and Reported Symptoms Related to the Buildingâ€"The Officair Project. Applied Sciences (Switzerland), 2019, 9, 3227.	2.5	23
27	Spatial and temporal variation of particulate matter characteristics within office buildings â€" The OFFICAIR study. Science of the Total Environment, 2017, 587-588, 59-67.	8.0	22
28	Comparison of methods for converting Dylos particle number concentrations to PM2.5 mass concentrations. Indoor Air, 2019, 29, 450-459.	4.3	20
29	Chemical characterization of particulate matter (PM) and source apportionment study during winter and summer period for the city of Kozani, Greece. Open Chemistry, 2014, 12, 643-651.	1.9	19
30	Improvement of source and wind field input of atmospheric dispersion model by assimilation of concentration measurements: Method and applications in idealized settings. Applied Mathematical Modelling, 2009, 33, 3511-3521.	4.2	18
31	Optimization of the numerical algorithms of the ADREA-I mesoscale prognostic meteorological model for real-time applications. Environmental Modelling and Software, 2008, 23, 96-108.	4.5	17
32	Modelling concentration fluctuations and individual exposure in complex urban environments. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 349-356.	3.9	17
33	Numerical experiments on the efficiency of local grid refinement based on truncation error estimates. Journal of Computational Physics, 2012, 231, 6725-6753.	3.8	17
34	An integrated approach for the chemical characterization and oxidative potential assessment of indoor PM2.5. Microchemical Journal, 2015, 119, 22-29.	4.5	17
35	PM1 and PM2.5 ionic composition and VOCs measurements in two typical apartments in Athens, Greece: investigation of smoking contribution to indoor air concentrations. Environmental Monitoring and Assessment, 2010, 167, 321-331.	2.7	14
36	Environmental data treatment to support exposure studies: The statistical behavior for NO2, O3, PM10 and PM2.5 air concentrations in Europe. Environmental Research, 2020, 181, 108864.	7.5	13

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37	Evolution and Transport of Pollutants over a Mediterranean Coastal Area: The Influence of Biogenic Volatile Organic Compound Emissions on Ozone Concentrations. Journal of Applied Meteorology and Climatology, 2000, 39, 526-545.	1.7	11
38	A comprehensive air quality investigation at an aquatic centre: Indoor/outdoor comparisons. Environmental Science and Pollution Research, 2018, 25, 16710-16719.	5.3	11
39	Parametric study of the dispersion aspects in a street-canyon area. International Journal of Environment and Pollution, 2005, 25, 155.	0.2	10
40	Radiation source rate estimation through data assimilation of gamma dose rate measurements for operational nuclear emergency response systems. International Journal of Environment and Pollution, 2012, 50, 386.	0.2	10
41	Commutersâ€™ Personal Exposure to Ambient and Indoor Ozone in Athens, Greece. Environments - MDPI, 2017, 4, 53.	3.3	9
42	Air quality in cabin environment of different passenger cars: effect of car usage, fuel type and ventilation/infiltration conditions. Environmental Science and Pollution Research, 2021, 28, 51232-51241.	5.3	9
43	Statistical Projection of Material Intensity: Evidence from the Global Economy and 107 Countries. Journal of Industrial Ecology, 2018, 22, 1465-1472.	5.5	7
44	Title is missing!. Environmental Monitoring and Assessment, 2000, 65, 41-48.	2.7	6
45	Modelling Short-Term Maximum Individual Exposure from Airborne Hazardous Releases in Urban Environments. Part Î™I: Validation of a Deterministic Model with Wind Tunnel Experimental Data. Toxics, 2015, 3, 259-267.	3.7	6
46	Modelling Exposure from Airborne Hazardous Short-Duration Releases in Urban Environments. Atmosphere, 2021, 12, 130.	2.3	6
47	Challenges on detection, identification and monitoring of indoor airborne chemical-biological agents. Safety Science, 2020, 129, 104789.	4.9	6
48	Simulation of Nocturnal Drainage Flows Enhanced by Deep Canyons: The Rocky Flats Case. Journal of Applied Meteorology and Climatology, 1997, 36, 775-791.	1.7	5
49	Dispersion modelling of radioactive pollutants: application of the 'Demokritos' Transport code system for Complex Terrain (DETRACT) to the Hanford Purex scenario. International Journal of Environment and Pollution, 2005, 25, 33.	0.2	5
50	Atmospheric dispersion and individual exposure of hazardous materials. Validation and intercomparison studies. International Journal of Environment and Pollution, 2014, 55, 76.	0.2	5
51	Experimental investigation and optimization of carbohydrazide application using different alkalization agents on boilers All-Volatile treatment. Applied Thermal Engineering, 2010, 30, 1269-1275.	6.0	4
52	Microstuctural analysis and determination of PM10 emission sources in an industrial Mediterranean city. Open Chemistry, 2014, 12, 1081-1090.	1.9	3
53	Assessment of Puff-Dispersion Variability Through Lagrangian and Eulerian Modelling Based on the JU2003 Campaign. Boundary-Layer Meteorology, 2019, 171, 395-422.	2.3	3
54	Evaluation of the Lagrangian particle dispersion model DIPCOT against data from wind tunnel simulations of quasi two-dimensional turbulent flow. International Journal of Environment and Pollution, 2005, 24, 114.	0.2	2

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55	A Three-Dimensional Model Study of the Impact of AVOC and BVOC Emissions on Ozone in an Urban Area of the Eastern Spain. , 2000, , 41-48.		2
56	CFD studies of pollutant spatial distribution in a large office. International Journal of Environment and Pollution, 2019, 65, 125.	0.2	1
57	An investigation of the parameters influencing the determination of the number of particulate matter sources and their contribution to the air quality of an indoor residential environment. Environmental Science and Engineering, 2009, , 453-464.	0.2	1
58	On exposure uncertainty quantification from accidental airborne point releases. Journal of Hazardous Materials Advances, 2022, 6, 100080.	3.0	1
59	Modeling Short-Term Maximum Individual Exposure from Airborne Hazardous Releases in Urban Environments. Part I: Validation of a Deterministic Model with Field Experimental Data. Toxics, 2015, 3, 249-258.	3.7	0
60	Development of a decision support system for the operation of thermal power plants in Western Macedonia. Environmental Science and Engineering, 2009, , 149-161.	0.2	0
61	New Approaches on Prediction of Maximum Individual Exposure from Airborne Hazardous Releases. NATO Security Through Science Series C: Environmental Security, 2008, , 725-726.	0.1	0