

# Nicolas Moussiopoulos

## List of Publications by Year in descending order

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103  
papers

4,080  
citations

117625

34  
h-index

123424

61  
g-index

107  
all docs

107  
docs citations

107  
times ranked

5127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in air quality research – current and emerging challenges. Atmospheric Chemistry and Physics, 2022, 22, 4615-4703.	4.9	63
2	A nested multi-scale system implemented in the large-eddy simulation model PALM model system 6.0. Geoscientific Model Development, 2021, 14, 3185-3214.	3.6	21
3	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. Environment International, 2021, 157, 106818.	10.0	126
4	The Use of Geoinformatics in Coastal Atmospheric Transport Phenomena: The Athens Experiment. Journal of Marine Science and Engineering, 2021, 9, 1197.	2.6	0
5	Modeling of Pollutant Emissions from a Diesel Power Station and Dispersion Over Extremely Complex Topography. Springer Proceedings in Complexity, 2021, , 207-213.	0.3	0
6	Setting Emission Reduction Trajectories in Mediterranean Cities with the Use of Science-Based Targets: The Pathway towards Climate Neutrality and the Ambitious European Goals by 2050. Atmosphere, 2021, 12, 1505.	2.3	4
7	Assessment of Air Quality Impacts from the Deployment of an Intelligent Transport System in Balkan Cities. Springer Proceedings in Complexity, 2021, , 271-276.	0.3	0
8	Innovative Atmospheric Dispersion Modelling in Support of Smart Farming Applications Within the Frame of the EU LIFE+GAIA SENSE Project. Springer Proceedings in Complexity, 2021, , 195-200.	0.3	0
9	Development of an Algorithm for Prediction of the Wind Speed in Renewable Energy Environments. Fluids, 2021, 6, 461.	1.7	1
10	Holistic methodological framework for the characterization of urban sustainability and strategic planning. Journal of Cleaner Production, 2020, 243, 118432.	9.3	28
11	A Life Cycle Analysis Approach for the Evaluation of Municipal Solid Waste Management Practices: The Case Study of the Region of Central Macedonia, Greece. Sustainability, 2020, 12, 8221.	3.2	18
12	Decision Support System to Implement Units of Alternative Biowaste Treatment for Producing Bioenergy and Boosting Local Bioeconomy. Energies, 2020, 13, 2306.	3.1	33
13	Externalities of energy sources: The operation of a municipal solid waste-to-energy incineration facility in the greater Thessaloniki area, Greece. Waste Management, 2020, 113, 351-358.	7.4	13
14	Surface mining in Western Macedonia, Greece: fugitive dust (PM10) emissions and dispersion. International Journal of Mining and Mineral Engineering, 2019, 10, 288.	0.3	3
15	Bio-based circular economy in European national and regional strategies. International Journal of Sustainable Development and Planning, 2019, 14, 31-43.	0.7	26
16	Preservation of the Mediterranean Identity: An Intra-City Analysis Towards a Macro-Regional Approach for the Characterisation of Urban Sustainability. Sustainability, 2018, 10, 3551.	3.2	7
17	Characterisation of sustainability in urban areas: An analysis of assessment tools with emphasis on European cities. Sustainable Cities and Society, 2018, 43, 563-577.	10.4	74
18	Nested Multi-scale System in the PALM Large-Eddy Simulation Model. Springer Proceedings in Complexity, 2018, , 287-292.	0.3	2

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19	Investigation of the occupational health and safety conditions in Hellenic solid waste management facilities and assessment of the in-situ hazard level. <i>Safety Science</i> , 2017, 96, 192-197.	4.9	24
20	Environmental impacts in the life cycle of olive oil: a literature review. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 1686-1697.	3.5	67
21	New power law inflow boundary conditions for street scale modelling. <i>International Journal of Environment and Pollution</i> , 2017, 62, 214.	0.2	1
22	Satellite data based approach for the estimation of anthropogenic heat flux over urban areas. , 2017, , .		0
23	Modelling the dispersion of particle numbers in five European cities. <i>Geoscientific Model Development</i> , 2016, 9, 451-478.	3.6	50
24	Chemical complexity of the urban atmosphere and its consequences: general discussion. <i>Faraday Discussions</i> , 2016, 189, 137-167.	3.2	1
25	Modelling the Dispersion of Particle Numbers in Five European Cities. <i>Springer Proceedings in Complexity</i> , 2016, , 415-418.	0.3	1
26	Green tourism supply chain management based on life cycle impact assessment. <i>European Journal of Environmental Sciences</i> , 2016, 6, 30-36.	0.2	9
27	Strategic planning for climate change mitigation and adaptation: the case of Greece. <i>International Journal of Climate Change Strategies and Management</i> , 2015, 7, 272-289.	2.9	15
28	Photocatalytic abatement results from a model street canyon. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18185-18196.	5.3	39
29	An integrated numerical methodology for describing multiscale interactions on atmospheric flow and pollutant dispersion in the urban atmospheric boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 144, 191-201.	3.9	8
30	A methodology to assess the overall environmental pressure attributed to tourism areas: A combined approach for typical all-sized hotels in Chalkidiki, Greece. <i>Ecological Indicators</i> , 2015, 50, 108-119.	6.3	45
31	Comparing land use regression and dispersion modelling to assess residential exposure to ambient air pollution for epidemiological studies. <i>Environment International</i> , 2014, 73, 382-392.	10.0	109
32	Cense: A tool to assess combined exposure to environmental health stressors in urban areas. <i>Environment International</i> , 2014, 63, 1-10.	10.0	20
33	Online coupled regional meteorology chemistry models in Europe: current status and prospects. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 317-398.	4.9	271
34	Increased Biomass Burning Due to the Economic Crisis in Greece and Its Adverse Impact on Wintertime Air Quality in Thessaloniki. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13313-13320.	10.0	150
35	The use of multi-criteria decision analysis to tackle waste management problems: a literature review. <i>Waste Management and Research</i> , 2013, 31, 115-129.	3.9	162
36	Depth of manual dismantling analysis: A cost-benefit approach. <i>Waste Management</i> , 2013, 33, 948-956.	7.4	51

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37	Particulate monitoring, modeling, and management: natural sources, long-range transport, and emission control options: a case study of Cyprus. , 2013, , .		1
38	An Air Quality Management System for Policy Support in Cyprus. Advances in Meteorology, 2012, 2012, 1-8.	1.6	16
39	Current trends in the use of models for source apportionment of air pollutants in Europe. International Journal of Environment and Pollution, 2012, 50, 363.	0.2	11
40	An approach for determining urban concentration increments. International Journal of Environment and Pollution, 2012, 50, 376.	0.2	1
41	Transportation cost analysis of the Hellenic system for alternative management of Waste Electrical and Electronic Equipment. International Journal of Environment and Waste Management, 2012, 10, 70.	0.3	8
42	A multi-objective decision-making model to select waste electrical and electronic equipment transportation media. Resources, Conservation and Recycling, 2012, 66, 76-84.	10.8	44
43	Electronic waste management cost: a scenario-based analysis for Greece. Waste Management and Research, 2011, 29, 963-972.	3.9	28
44	A web-based Decision Support System for the optimal management of construction and demolition waste. Waste Management, 2011, 31, 2497-2502.	7.4	90
45	Application of life cycle assessment and exergy analysis in a combined cycle power plant using natural gas at Lavrion, Greece. International Journal of Power and Energy Conversion, 2011, 2, 365.	0.3	1
46	Willingness to pay for reducing the risk of premature mortality attributed to air pollution: a contingent valuation study for Greece. Atmospheric Pollution Research, 2011, 2, 275-282.	3.8	19
47	Recommendations for the spatial assessment of air quality resulting from the FP6 EU project Air4EU. International Journal of Environment and Pollution, 2011, 44, 128.	0.2	1
48	Data assimilation within the Air4EU project: the Athens case. International Journal of Environment and Pollution, 2011, 44, 298.	0.2	0
49	COST 732 in practice: the MUST model evaluation exercise. International Journal of Environment and Pollution, 2011, 44, 403.	0.2	67
50	Impact of European emission control strategies on urban and local air quality. Atmospheric Environment, 2011, 45, 4753-4762.	4.1	46
51	Numerical Model Inter-comparison for Wind Flow and Turbulence Around Single-Block Buildings. Environmental Modeling and Assessment, 2011, 16, 169-181.	2.2	40
52	Social acceptance for the development of a waste-to-energy plant in an urban area. Resources, Conservation and Recycling, 2011, 55, 857-863.	10.8	124
53	Meteorological simulations with use of satellite data for assessing urban heat island under summertime anticyclonic conditions. International Journal of Environment and Pollution, 2010, 40, 123.	0.2	6
54	Promoting reuse strategies for electrical/electronic equipment. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2010, 163, 173-182.	0.8	5

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55	Environmental, social and economic information management for the evaluation of sustainability in urban areas: A system of indicators for Thessaloniki, Greece. <i>Cities</i> , 2010, 27, 377-384.	5.6	128
56	Assessing generated quantities of infectious medical wastes: A case study for a health region administration in Central Macedonia, Greece. <i>Waste Management</i> , 2010, 30, 532-538.	7.4	34
57	Assessing multiple criteria for the optimal location of a construction and demolition waste management facility. <i>Building and Environment</i> , 2010, 45, 2317-2326.	6.9	99
58	A methodological framework for end-of-life management of electronic products. <i>Resources, Conservation and Recycling</i> , 2009, 53, 329-339.	10.8	71
59	The study of traffic hotspot air quality and street scale modelling in the Street Emission Ceilings (SEC) Project. <i>International Journal of Environment and Waste Management</i> , 2009, 4, 156.	0.3	1
60	Comparison of Numerical and Experimental Results for the Evaluation of the Depollution Effectiveness of Photocatalytic Coverings in Street Canyons. <i>Environmental Modeling and Assessment</i> , 2008, 13, 357-368.	2.2	18
61	A simplified three-dimensional approach to street canyon modelling using SEP-SCAM. <i>Environmental Modelling and Software</i> , 2008, 23, 304-313.	4.5	9
62	Photocatalytic degradation of NO <sub>x</sub> in a pilot street canyon configuration using TiO <sub>2</sub> -mortar panels. <i>Environmental Monitoring and Assessment</i> , 2007, 136, 35-44.	2.7	152
63	PM <sub>10</sub> forecasting for Thessaloniki, Greece. <i>Environmental Modelling and Software</i> , 2006, 21, 559-565.	4.5	105
64	Wind flow and photochemical air pollution in Thessaloniki, Greece. Part II: Statistical evaluation of European Zooming Model's simulation results. <i>Environmental Modelling and Software</i> , 2006, 21, 1752-1758.	4.5	11
65	Estimating long term urban exposure to particulate matter and ozone in Europe. <i>Environmental Modelling and Software</i> , 2006, 21, 447-453.	4.5	11
66	Wind flow and photochemical air pollution in Thessaloniki, Greece. Part I: Simulations with the European Zooming Model. <i>Environmental Modelling and Software</i> , 2006, 21, 1741-1751.	4.5	16
67	LCA of Multicrystalline Silicon Photovoltaic Systems - Part 1: Present Situation and Future Perspectives (8 pp). <i>International Journal of Life Cycle Assessment</i> , 2006, 11, 129-136.	4.7	25
68	LCA of Multicrystalline Silicon Photovoltaic Systems - Part 2: Application on an Island Economy (8 pp). <i>International Journal of Life Cycle Assessment</i> , 2006, 11, 183-188.	4.7	16
69	Exergy analysis of cement production. <i>International Journal of Exergy</i> , 2005, 2, 55.	0.4	41
70	The Dodecanese energy system. <i>International Journal of Global Energy Issues</i> , 2005, 23, 43.	0.4	1
71	Efficient calculation of urban scale air pollutant dispersion and transformation using the OFIS model within the framework of CityDelta. <i>International Journal of Environment and Pollution</i> , 2005, 24, 64.	0.2	6
72	A study of heat transfer effects on air pollution dispersion in street canyons by numerical simulations. <i>International Journal of Environment and Pollution</i> , 2005, 25, 131.	0.2	5

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73	Optimization of energy production system in the Dodecanese Islands. Renewable Energy, 2005, 30, 195-210.	8.9	20
74	Advantages of the use of hydrogen fuel as compared to kerosene. Resources, Conservation and Recycling, 2005, 44, 99-113.	10.8	66
75	Cyprus energy system and the use of renewable energy sources. Energy, 2005, 30, 1889-1901.	8.8	22
76	The effects of basic flow and topography on the development of the sea breeze over a complex coastal environment. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 305-327.	2.7	25
77	Life Cycle Assessment of Kerosene Used in Aviation (8 pp). International Journal of Life Cycle Assessment, 2005, 10, 417-424.	4.7	31
78	Life cycle assessment of beer production in Greece. Journal of Cleaner Production, 2005, 13, 433-439.	9.3	75
79	Characteristics of wastes from electric and electronic equipment in Greece: results of a field survey. Waste Management and Research, 2005, 23, 381-388.	3.9	22
80	Exergy Analysis for Power Plant Alternative Designs, Part I. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2004, 26, 1277-1285.	0.5	8
81	Life cycle assessment of hydrogen fuel production processes. International Journal of Hydrogen Energy, 2004, 29, 1443-1450.	7.1	336
82	Multi-objective optimization in energy systems: the case study of Lesbos Island, Greece. Renewable and Sustainable Energy Reviews, 2004, 8, 91-100.	16.4	45
83	A modelling method for estimating transboundary air pollution in southeastern Europe. Environmental Modelling and Software, 2004, 19, 549-558.	4.5	10
84	Exergy Analysis for Power Plant Alternative Designs, Part II. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2004, 26, 1287-1295.	0.5	0
85	Exergy analysis of renewable energy sources. Renewable Energy, 2003, 28, 295-310.	8.9	252
86	Identification of major components for integrated urban air quality management and information systems via user requirements prioritisation. Environmental Modelling and Software, 2003, 18, 173-178.	4.5	11
87	Correlation of air pollution and meteorological data using neural networks. International Journal of Environment and Pollution, 2003, 20, 218.	0.2	7
88	Statistical analysis of environmental data as the basis of forecasting: an air quality application. Science of the Total Environment, 2002, 288, 227-237.	8.0	66
89	Modification of the local winds due to hypothetical urbanization of the Zagreb surroundings. Meteorology and Atmospheric Physics, 2002, 79, 1-12.	2.0	32
90	Web-based tools for environmental management. Management of Environmental Quality, 2001, 12, 356-363.	0.4	6

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91	Urban air quality in larger conurbations in the European Union. Environmental Modelling and Software, 2001, 16, 399-414.	4.5	80
92	The OFIS model: an efficient tool for assessing ozone exposure and evaluating air pollution abatement strategies. International Journal of Environment and Pollution, 2000, 14, 597.	0.2	12
93	Coupling of mesoscale and microscale models – an approach to simulate scale interaction. Environmental Modelling and Software, 2000, 15, 597-602.	4.5	12
94	The microscale model MIMO: development and assessment. Journal of Wind Engineering and Industrial Aerodynamics, 2000, 85, 163-176.	3.9	53
95	On a new nonlinear turbulence model for simulating flows around building-shaped structures. Journal of Wind Engineering and Industrial Aerodynamics, 2000, 88, 91-99.	3.9	43
96	Title is missing!. Environmental Monitoring and Assessment, 2000, 65, 407-415.	2.7	17
97	The Ozone Fine Structure Model: Model Concept and Options. Environmental Monitoring and Assessment, 2000, 65, 305-312.	2.7	1
98	Title is missing!. Environmental Monitoring and Assessment, 2000, 65, 451-458.	2.7	8
99	Overview of LCA activities in Greece from LHTEE. International Journal of Life Cycle Assessment, 2000, 5, 203-204.	4.7	1
100	On the Performance and Applicability of Nonlinear Two-Equation Turbulence Models for Urban Air Quality Modelling. , 2000, , 201-209.		0
101	A model generating framework for regional waste management taking local peculiarities explicitly into account. Location Science, 1998, 6, 281-305.	0.1	19
102	Application of ELECTRE III for the integrated management of municipal solid wastes in the Greater Athens Area. European Journal of Operational Research, 1997, 97, 439-449.	5.7	84
103	Influence of power plant emissions and industrial emissions on the leeward ozone levels. Atmospheric Environment Part A General Topics, 1990, 24, 1451-1460.	1.3	11