

Nicolas Moussiopoulos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2243494/publications.pdf>

Version: 2024-02-01

103
papers

4,080
citations

117453

34
h-index

123241

61
g-index

107
all docs

107
docs citations

107
times ranked

5127
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Life cycle assessment of hydrogen fuel production processes. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1443-1450. | 3.8 | 336 |
| 2 | Online coupled regional meteorology chemistry models in Europe: current status and prospects. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 317-398. | 1.9 | 271 |
| 3 | Exergy analysis of renewable energy sources. <i>Renewable Energy</i> , 2003, 28, 295-310. | 4.3 | 252 |
| 4 | 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. | 2.2 | 162 |
| 5 | Photocatalytic degradation of NO _x in a pilot street canyon configuration using TiO ₂ -mortar panels. <i>Environmental Monitoring and Assessment</i> , 2007, 136, 35-44. | 1.3 | 152 |
| 6 | Increased Biomass Burning Due to the Economic Crisis in Greece and Its Adverse Impact on Wintertime Air Quality in Thessaloniki. <i>Environmental Science & Technology</i> , 2013, 47, 13313-13320. | 4.6 | 150 |
| 7 | 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. | 2.7 | 128 |
| 8 | A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. <i>Environment International</i> , 2021, 157, 106818. | 4.8 | 126 |
| 9 | Social acceptance for the development of a waste-to-energy plant in an urban area. <i>Resources, Conservation and Recycling</i> , 2011, 55, 857-863. | 5.3 | 124 |
| 10 | 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. | 4.8 | 109 |
| 11 | PM ₁₀ forecasting for Thessaloniki, Greece. <i>Environmental Modelling and Software</i> , 2006, 21, 559-565. | 1.9 | 105 |
| 12 | Assessing multiple criteria for the optimal location of a construction and demolition waste management facility. <i>Building and Environment</i> , 2010, 45, 2317-2326. | 3.0 | 99 |
| 13 | A web-based Decision Support System for the optimal management of construction and demolition waste. <i>Waste Management</i> , 2011, 31, 2497-2502. | 3.7 | 90 |
| 14 | Application of ELECTRE III for the integrated management of municipal solid wastes in the Greater Athens Area. <i>European Journal of Operational Research</i> , 1997, 97, 439-449. | 3.5 | 84 |
| 15 | Urban air quality in larger conurbations in the European Union. <i>Environmental Modelling and Software</i> , 2001, 16, 399-414. | 1.9 | 80 |
| 16 | Life cycle assessment of beer production in Greece. <i>Journal of Cleaner Production</i> , 2005, 13, 433-439. | 4.6 | 75 |
| 17 | Characterisation of sustainability in urban areas: An analysis of assessment tools with emphasis on European cities. <i>Sustainable Cities and Society</i> , 2018, 43, 563-577. | 5.1 | 74 |
| 18 | A methodological framework for end-of-life management of electronic products. <i>Resources, Conservation and Recycling</i> , 2009, 53, 329-339. | 5.3 | 71 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | COST 732 in practice: the MUST model evaluation exercise. <i>International Journal of Environment and Pollution</i> , 2011, 44, 403. | 0.2 | 67 |
| 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. | 1.7 | 67 |
| 21 | Statistical analysis of environmental data as the basis of forecasting: an air quality application. <i>Science of the Total Environment</i> , 2002, 288, 227-237. | 3.9 | 66 |
| 22 | Advantages of the use of hydrogen fuel as compared to kerosene. <i>Resources, Conservation and Recycling</i> , 2005, 44, 99-113. | 5.3 | 66 |
| 23 | Advances in air quality research – current and emerging challenges. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4615-4703. | 1.9 | 63 |
| 24 | The microscale model MIMO: development and assessment. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2000, 85, 163-176. | 1.7 | 53 |
| 25 | Depth of manual dismantling analysis: A cost-benefit approach. <i>Waste Management</i> , 2013, 33, 948-956. | 3.7 | 51 |
| 26 | Modelling the dispersion of particle numbers in five European cities. <i>Geoscientific Model Development</i> , 2016, 9, 451-478. | 1.3 | 50 |
| 27 | Impact of European emission control strategies on urban and local air quality. <i>Atmospheric Environment</i> , 2011, 45, 4753-4762. | 1.9 | 46 |
| 28 | Multi-objective optimization in energy systems: the case study of Lesvos Island, Greece. <i>Renewable and Sustainable Energy Reviews</i> , 2004, 8, 91-100. | 8.2 | 45 |
| 29 | 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. | 2.6 | 45 |
| 30 | A multi-objective decision-making model to select waste electrical and electronic equipment transportation media. <i>Resources, Conservation and Recycling</i> , 2012, 66, 76-84. | 5.3 | 44 |
| 31 | On a new nonlinear turbulence model for simulating flows around building-shaped structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2000, 88, 91-99. | 1.7 | 43 |
| 32 | Exergy analysis of cement production. <i>International Journal of Exergy</i> , 2005, 2, 55. | 0.2 | 41 |
| 33 | Numerical Model Inter-comparison for Wind Flow and Turbulence Around Single-Block Buildings. <i>Environmental Modeling and Assessment</i> , 2011, 16, 169-181. | 1.2 | 40 |
| 34 | Photocatalytic abatement results from a model street canyon. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18185-18196. | 2.7 | 39 |
| 35 | 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. | 3.7 | 34 |
| 36 | Decision Support System to Implement Units of Alternative Biowaste Treatment for Producing Bioenergy and Boosting Local Bioeconomy. <i>Energies</i> , 2020, 13, 2306. | 1.6 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Modification of the local winds due to hypothetical urbanization of the Zagreb surroundings. <i>Meteorology and Atmospheric Physics</i> , 2002, 79, 1-12. | 0.9 | 32 |
| 38 | Life Cycle Assessment of Kerosene Used in Aviation (8 pp). <i>International Journal of Life Cycle Assessment</i> , 2005, 10, 417-424. | 2.2 | 31 |
| 39 | Electronic waste management cost: a scenario-based analysis for Greece. <i>Waste Management and Research</i> , 2011, 29, 963-972. | 2.2 | 28 |
| 40 | Holistic methodological framework for the characterization of urban sustainability and strategic planning. <i>Journal of Cleaner Production</i> , 2020, 243, 118432. | 4.6 | 28 |
| 41 | Bio-based circular economy in European national and regional strategies. <i>International Journal of Sustainable Development and Planning</i> , 2019, 14, 31-43. | 0.3 | 26 |
| 42 | The effects of basic flow and topography on the development of the sea breeze over a complex coastal environment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 305-327. | 1.0 | 25 |
| 43 | 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. | 2.2 | 25 |
| 44 | 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. | 2.6 | 24 |
| 45 | Cyprus energy system and the use of renewable energy sources. <i>Energy</i> , 2005, 30, 1889-1901. | 4.5 | 22 |
| 46 | Characteristics of wastes from electric and electronic equipment in Greece: results of a field survey. <i>Waste Management and Research</i> , 2005, 23, 381-388. | 2.2 | 22 |
| 47 | A nested multi-scale system implemented in the large-eddy simulation model PALM model system 6.0. <i>Geoscientific Model Development</i> , 2021, 14, 3185-3214. | 1.3 | 21 |
| 48 | Optimization of energy production system in the Dodecanese Islands. <i>Renewable Energy</i> , 2005, 30, 195-210. | 4.3 | 20 |
| 49 | Cense: A tool to assess combined exposure to environmental health stressors in urban areas. <i>Environment International</i> , 2014, 63, 1-10. | 4.8 | 20 |
| 50 | A model generating framework for regional waste management taking local peculiarities explicitly into account. <i>Location Science</i> , 1998, 6, 281-305. | 0.2 | 19 |
| 51 | Willingness to pay for reducing the risk of premature mortality attributed to air pollution: a contingent valuation study for Greece. <i>Atmospheric Pollution Research</i> , 2011, 2, 275-282. | 1.8 | 19 |
| 52 | 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. | 1.2 | 18 |
| 53 | A Life Cycle Analysis Approach for the Evaluation of Municipal Solid Waste Management Practices: The Case Study of the Region of Central Macedonia, Greece. <i>Sustainability</i> , 2020, 12, 8221. | 1.6 | 18 |
| 54 | Title is missing!. <i>Environmental Monitoring and Assessment</i> , 2000, 65, 407-415. | 1.3 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | 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. | 1.9 | 16 |
| 56 | 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. | 2.2 | 16 |
| 57 | An Air Quality Management System for Policy Support in Cyprus. <i>Advances in Meteorology</i> , 2012, 2012, 1-8. | 0.6 | 16 |
| 58 | 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. | 1.5 | 15 |
| 59 | Externalities of energy sources: The operation of a municipal solid waste-to-energy incineration facility in the greater Thessaloniki area, Greece. <i>Waste Management</i> , 2020, 113, 351-358. | 3.7 | 13 |
| 60 | The OFIS model: an efficient tool for assessing ozone exposure and evaluating air pollution abatement strategies. <i>International Journal of Environment and Pollution</i> , 2000, 14, 597. | 0.2 | 12 |
| 61 | Coupling of mesoscale and microscale models – an approach to simulate scale interaction. <i>Environmental Modelling and Software</i> , 2000, 15, 597-602. | 1.9 | 12 |
| 62 | Influence of power plant emissions and industrial emissions on the leeward ozone levels. <i>Atmospheric Environment Part A General Topics</i> , 1990, 24, 1451-1460. | 1.3 | 11 |
| 63 | Identification of major components for integrated urban air quality management and information systems via user requirements prioritisation. <i>Environmental Modelling and Software</i> , 2003, 18, 173-178. | 1.9 | 11 |
| 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. | 1.9 | 11 |
| 65 | Estimating long term urban exposure to particulate matter and ozone in Europe. <i>Environmental Modelling and Software</i> , 2006, 21, 447-453. | 1.9 | 11 |
| 66 | Current trends in the use of models for source apportionment of air pollutants in Europe. <i>International Journal of Environment and Pollution</i> , 2012, 50, 363. | 0.2 | 11 |
| 67 | A modelling method for estimating transboundary air pollution in southeastern Europe. <i>Environmental Modelling and Software</i> , 2004, 19, 549-558. | 1.9 | 10 |
| 68 | A simplified three-dimensional approach to street canyon modelling using SEP-SCAM. <i>Environmental Modelling and Software</i> , 2008, 23, 304-313. | 1.9 | 9 |
| 69 | Green tourism supply chain management based on life cycle impact assessment. <i>European Journal of Environmental Sciences</i> , 2016, 6, 30-36. | 0.6 | 9 |
| 70 | Title is missing!. <i>Environmental Monitoring and Assessment</i> , 2000, 65, 451-458. | 1.3 | 8 |
| 71 | 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 |
| 72 | Transportation cost analysis of the Hellenic system for alternative management of Waste Electrical and Electronic Equipment. <i>International Journal of Environment and Waste Management</i> , 2012, 10, 70. | 0.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | 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. | 1.7 | 8 |
| 74 | Correlation of air pollution and meteorological data using neural networks. <i>International Journal of Environment and Pollution</i> , 2003, 20, 218. | 0.2 | 7 |
| 75 | Preservation of the Mediterranean Identity: An Intra-City Analysis Towards a Macro-Regional Approach for the Characterisation of Urban Sustainability. <i>Sustainability</i> , 2018, 10, 3551. | 1.6 | 7 |
| 76 | Web-based tools for environmental management. <i>Management of Environmental Quality</i> , 2001, 12, 356-363. | 0.4 | 6 |
| 77 | 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 |
| 78 | Meteorological simulations with use of satellite data for assessing urban heat island under summertime anticyclonic conditions. <i>International Journal of Environment and Pollution</i> , 2010, 40, 123. | 0.2 | 6 |
| 79 | 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 |
| 80 | Promoting reuse strategies for electrical/electronic equipment. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2010, 163, 173-182. | 0.9 | 5 |
| 81 | 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. <i>Atmosphere</i> , 2021, 12, 1505. | 1.0 | 4 |
| 82 | Surface mining in Western Macedonia, Greece: fugitive dust (PM10) emissions and dispersion. <i>International Journal of Mining and Mineral Engineering</i> , 2019, 10, 288. | 0.1 | 3 |
| 83 | Nested Multi-scale System in the PALM Large-Eddy Simulation Model. <i>Springer Proceedings in Complexity</i> , 2018, , 287-292. | 0.2 | 2 |
| 84 | The Ozone Fine Structure Model: Model Concept and Options. <i>Environmental Monitoring and Assessment</i> , 2000, 65, 305-312. | 1.3 | 1 |
| 85 | Overview of LCA activities in Greece from LHTEE. <i>International Journal of Life Cycle Assessment</i> , 2000, 5, 203-204. | 2.2 | 1 |
| 86 | The Dodecanese energy system. <i>International Journal of Global Energy Issues</i> , 2005, 23, 43. | 0.2 | 1 |
| 87 | 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. | 0.2 | 1 |
| 88 | Application of life cycle assessment and exergy analysis in a combined cycle power plant using natural gas at Lavrion, Greece. <i>International Journal of Power and Energy Conversion</i> , 2011, 2, 365. | 0.2 | 1 |
| 89 | Recommendations for the spatial assessment of air quality resulting from the FP6 EU project Air4EU. <i>International Journal of Environment and Pollution</i> , 2011, 44, 128. | 0.2 | 1 |
| 90 | An approach for determining urban concentration increments. <i>International Journal of Environment and Pollution</i> , 2012, 50, 376. | 0.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Particulate monitoring, modeling, and management: natural sources, long-range transport, and emission control options: a case study of Cyprus. , 2013, , . | | 1 |
| 92 | Chemical complexity of the urban atmosphere and its consequences: general discussion. Faraday Discussions, 2016, 189, 137-167. | 1.6 | 1 |
| 93 | New power law inflow boundary conditions for street scale modelling. International Journal of Environment and Pollution, 2017, 62, 214. | 0.2 | 1 |
| 94 | Modelling the Dispersion of Particle Numbers in Five European Cities. Springer Proceedings in Complexity, 2016, , 415-418. | 0.2 | 1 |
| 95 | Development of an Algorithm for Prediction of the Wind Speed in Renewable Energy Environments. Fluids, 2021, 6, 461. | 0.8 | 1 |
| 96 | 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 |
| 97 | Data assimilation within the Air4EU project: the Athens case. International Journal of Environment and Pollution, 2011, 44, 298. | 0.2 | 0 |
| 98 | On the Performance and Applicability of Nonlinear Two-Equation Turbulence Models for Urban Air Quality Modelling. , 2000, , 201-209. | | 0 |
| 99 | Satellite data based approach for the estimation of anthropogenic heat flux over urban areas. , 2017, , . | | 0 |
| 100 | The Use of Geoinformatics in Coastal Atmospheric Transport Phenomena: The Athens Experiment. Journal of Marine Science and Engineering, 2021, 9, 1197. | 1.2 | 0 |
| 101 | Modeling of Pollutant Emissions from a Diesel Power Station and Dispersion Over Extremely Complex Topography. Springer Proceedings in Complexity, 2021, , 207-213. | 0.2 | 0 |
| 102 | Assessment of Air Quality Impacts from the Deployment of an Intelligent Transport System in Balkan Cities. Springer Proceedings in Complexity, 2021, , 271-276. | 0.2 | 0 |
| 103 | Innovative Atmospheric Dispersion Modelling in Support of Smart Farming Applications Within the Frame of the EU LIFE+â€™GAIA SENSE Project. Springer Proceedings in Complexity, 2021, , 195-200. | 0.2 | 0 |