

Coupling dynamics and chemistry in the air pollution m review

Environmental Pollution

214, 690-704

DOI: [10.1016/j.envpol.2016.04.052](https://doi.org/10.1016/j.envpol.2016.04.052)

Citation Report

#	ARTICLE	IF	CITATIONS
1	On the impact of the turbulent/non-turbulent interface on differential diffusion in a turbulent jet flow. <i>Journal of Fluid Mechanics</i> , 2016, 802, .	1.4	15
2	Modelling photochemical pollutants in a deep urban street canyon: Application of a coupled two-box model approximation. <i>Atmospheric Environment</i> , 2016, 143, 86-107.	1.9	11
3	Validation and optimization of SST k- ϵ turbulence model for pollutant dispersion within a building array. <i>Atmospheric Environment</i> , 2016, 145, 225-238.	1.9	71
4	Air pollution abatement performances of green infrastructure in open road and built-up street canyon environments – A review. <i>Atmospheric Environment</i> , 2017, 162, 71-86.	1.9	611
5	Large eddy simulation of reactive pollutants in a deep urban street canyon: Coupling dynamics with O ₃ -NO _x -VOC chemistry. <i>Environmental Pollution</i> , 2017, 224, 171-184.	3.7	37
6	Thermal comfort in the historical urban canyon: the effect of innovative materials. <i>Energy Procedia</i> , 2017, 134, 151-160.	1.8	14
7	Simulations of the impacts of building height layout on air quality in natural-ventilated rooms around street canyons. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23620-23635.	2.7	12
8	The impact of urban open space and “lift-up” building design on building intake fraction and daily pollutant exposure in idealized urban models. <i>Science of the Total Environment</i> , 2018, 633, 1314-1328.	3.9	79
9	Cross-sectional associations of objectively assessed neighbourhood attributes with depressive symptoms in older adults of an ultra-dense urban environment: the Hong Kong ALECS study. <i>BMJ Open</i> , 2018, 8, e020480.	0.8	12
10	A state of the art regarding urban air quality prediction models. <i>E3S Web of Conferences</i> , 2018, 32, 01010.	0.2	2
11	On the impact of innovative materials on outdoor thermal comfort of pedestrians in historical urban canyons. <i>Renewable Energy</i> , 2018, 118, 825-839.	4.3	81
13	CFD-Based Selection of Dispersion Plates. <i>MATEC Web of Conferences</i> , 2018, 232, 03047.	0.1	0
14	A Computational Fluid Dynamic (CFD) Simulation of PM ₁₀ Dispersion Caused by Rail Transit Construction Activity: A Real Urban Street Canyon Model. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 482.	1.2	16
15	Roadside atmospheric pollution: still a serious environmental problem in Beijing, China. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 1203-1216.	1.5	9
16	Large-eddy simulation of reactive pollutant exchange at the top of a street canyon. <i>Atmospheric Environment</i> , 2018, 187, 381-389.	1.9	25
17	The impacts of viaduct settings and street aspect ratios on personal intake fraction in three-dimensional urban-like geometries. <i>Building and Environment</i> , 2018, 143, 138-162.	3.0	60
18	Tailored reduced kinetic mechanisms for atmospheric chemistry modeling. <i>Atmospheric Environment</i> , 2019, 213, 675-685.	1.9	4
19	Evaluation of an operational air quality model using large-eddy simulation. <i>Atmospheric Environment: X</i> , 2019, 3, 100041.	0.8	9

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20	Pseudo-simultaneous measurements for the spatial-temporal characteristics of accumulation and coarse mode particles near an urban viaduct within street canyons. Atmospheric Pollution Research, 2019, 10, 1643-1654.	1.8	6
21	Fully resolved scalar transport for high Prandtl number flows using adaptive mesh refinement. Chemical Engineering Science: X, 2019, 4, 100047.	1.5	4
23	Implementation of the sectional aerosol module SALSA2.0 into the PALM model system 6.0: model development and first evaluation. Geoscientific Model Development, 2019, 12, 1403-1422.	1.3	31
24	Characterisation of diesel vehicle emissions and determination of remote sensing cutpoints for diesel high-emitters. Environmental Pollution, 2019, 252, 31-38.	3.7	27
25	A new approach for inferring traffic-related air pollution: Use of radar-calibrated crowd-sourced traffic data. Environment International, 2019, 127, 142-159.	4.8	16
26	Objectively-Measured Neighbourhood Attributes as Correlates and Moderators of Quality of Life in Older Adults with Different Living Arrangements: The ALECS Cross-Sectional Study. International Journal of Environmental Research and Public Health, 2019, 16, 876.	1.2	22
27	Large-Eddy Simulations of Reactive Pollutant Dispersion in the Convective Boundary Layer over Flat and Urban-Like Surfaces. Boundary-Layer Meteorology, 2019, 172, 271-289.	1.2	8
28	Method for forecasting pollution of urban areas. E3S Web of Conferences, 2019, 140, 09005.	0.2	1
29	Real time monitoring network demonstrator for air quality management. , 2019, , .		1
30	To what extent does physical activity explain the associations between neighborhood environment and depressive symptoms in older adults living in an Asian metropolis?. Mental Health and Physical Activity, 2019, 16, 96-104.	0.9	11
31	Numerical evaluations of urban design technique to reduce vehicular personal intake fraction in deep street canyons. Science of the Total Environment, 2019, 653, 968-994.	3.9	127
32	Exploration of sustainable building morphologies for effective passive pollutant dispersion within compact urban environments. Building and Environment, 2019, 148, 508-523.	3.0	32
33	Impact of indoor-outdoor temperature differences on dispersion of gaseous pollutant and particles in idealized street canyons with and without viaduct settings. Building Simulation, 2019, 12, 285-297.	3.0	24
34	Development of the Real-time On-road Emission (ROE v1.0) model for street-scale air quality modeling based on dynamic traffic big data. Geoscientific Model Development, 2020, 13, 23-40.	1.3	17
35	The effect of turbulence induced by different kinds of moving vehicles in street canyons. Sustainable Cities and Society, 2020, 54, 102015.	5.1	19
36	Numerical investigations of reactive pollutant dispersion and personal exposure in 3D urban-like models. Building and Environment, 2020, 169, 106569.	3.0	17
37	Reduction of urban traffic-related particulate matter leaf trait matters. Environmental Science and Pollution Research, 2020, 27, 5825-5844.	2.7	28
38	Traffic data in air quality modeling: A review of key variables, improvements in results, open problems and challenges in current research. Atmospheric Pollution Research, 2020, 11, 454-468.	1.8	35

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39	Integrated assessment of indoor and outdoor ventilation in street canyons with naturally-ventilated buildings by various ventilation indexes. <i>Building and Environment</i> , 2020, 169, 106528.	3.0	29
40	Assessment of particulate matter levels and sources in a street canyon at Loures, Portugal – A case study of the REMEDIO project. <i>Atmospheric Pollution Research</i> , 2020, 11, 1857-1869.	1.8	6
41	Impact Factors on Airflow and Pollutant Dispersion in Urban Street Canyons and Comprehensive Simulations: a Review. <i>Current Pollution Reports</i> , 2020, 6, 425-439.	3.1	34
42	The effect of exhaust emissions from a group of moving vehicles on pollutant dispersion in the street canyons. <i>Building and Environment</i> , 2020, 181, 107120.	3.0	27
43	CFD-Based Selection of Dispersion Plates with Holes. , 2020, , .		0
44	A numerical study for the assessment of air pollutant dispersion with chemical reactions from a thermal power plant. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1035-1061.	1.5	27
45	Evaluating in-use vehicle emissions using air quality monitoring stations and on-road remote sensing systems. <i>Science of the Total Environment</i> , 2020, 740, 139868.	3.9	26
46	Dispersion behaviors of exhaust gases and nanoparticle of a passenger vehicle under simulated traffic light driving pattern. <i>Science of the Total Environment</i> , 2020, 740, 140090.	3.9	12
47	Study of flow characteristics in tunnels induced by canyon wind. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 202, 104236.	1.7	25
48	Numerical studies of passive and reactive pollutant dispersion in high-density urban models with various building densities and height variations. <i>Building and Environment</i> , 2020, 177, 106916.	3.0	20
49	Formation mechanism of soil PAH distribution: High and low urbanization. <i>Geoderma</i> , 2020, 367, 114271.	2.3	16
50	A framework for Air Quality Management Zones - Useful GIS-based tool for urban planning: Case studies in Antwerp and Gdańsk. <i>Building and Environment</i> , 2020, 174, 106743.	3.0	44
51	Numerical analysis of an urban road pavement solar collector (U-RPSC) for heat island mitigation: Impact on the urban environment. <i>Renewable Energy</i> , 2021, 164, 618-641.	4.3	22
52	Application of Improved CFD Modeling for Prediction and Mitigation of Traffic-Related Air Pollution Hotspots in a Realistic Urban Street. <i>Atmospheric Environment</i> , 2021, 246, 118127.	1.9	55
53	Green infrastructure for air quality improvement in street canyons. <i>Environment International</i> , 2021, 146, 106288.	4.8	118
54	NO depolluting performance of photocatalytic materials in an urban area - Part II: Assessment through Computational Fluid Dynamics simulations. <i>Atmospheric Environment</i> , 2021, 246, 118091.	1.9	7
55	Review on pollutant dispersion in urban areas-part A: Effects of mechanical factors and urban morphology. <i>Building and Environment</i> , 2021, 190, 107534.	3.0	35
57	Air quality in urban areas. Pollutants, issues related to the monitoring of concentrations of gaseous pollutants and aerosols. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 664, 012101.	0.2	0

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58	Effects of sunshields on vehicular pollutant dispersion and indoor air quality: Comparison between isothermal and nonisothermal conditions. <i>Building and Environment</i> , 2021, 197, 107854.	3.0	8
60	Simulation of O ₃ and NO _x in São Paulo street urban canyons with VEIN (v0.2.2) and MUNICH (v1.0). <i>Geoscientific Model Development</i> , 2021, 14, 3251-3268.	1.3	2
62	A review of strategies for mitigating roadside air pollution in urban street canyons. <i>Environmental Pollution</i> , 2021, 280, 116971.	3.7	94
63	Review on pollutant dispersion in urban areas-part B: Local mitigation strategies, optimization framework, and evaluation theory. <i>Building and Environment</i> , 2021, 198, 107890.	3.0	16
64	Dispersion of particulate matter (PM _{2.5}) from wood combustion for residential heating: optimization of mitigation actions based on large-eddy simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12463-12477.	1.9	9
65	The influence of neighborhood-level urban morphology on PM _{2.5} variation based on random forest regression. <i>Atmospheric Pollution Research</i> , 2021, 12, 101147.	1.8	14
66	Urban population exposure forecast system to predict NO ₂ impact by a building-resolving multi-scale model approach. <i>Atmospheric Environment</i> , 2021, 261, 118566.	1.9	5
67	A Review on the Dispersion and Distribution Characteristics of Pollutants in Street Canyons and Improvement Measures. <i>Energies</i> , 2021, 14, 6155.	1.6	9
68	A numerical study of local traffic volume and air quality within urban street canyons. <i>Science of the Total Environment</i> , 2021, 791, 148138.	3.9	14
69	Effects of inhomogeneous ground-level pollutant sources under different wind directions. <i>Environmental Pollution</i> , 2021, 289, 117903.	3.7	12
70	Efficient and high-resolution simulation of pollutant dispersion in complex urban environments by island-based recurrence CFD. <i>Environmental Modelling and Software</i> , 2021, 145, 105172.	1.9	13
71	Nanoremediation for Sustainable Crop Production. <i>Sustainable Agriculture Reviews</i> , 2017, , 335-363.	0.6	19
72	Analysis and prediction models of flow field in mountain tunnels under strong canyon wind. <i>Tunnelling and Underground Space Technology</i> , 2021, 120, 104258.	3.0	1
73	RANS simulation of near-field dispersion of reactive air pollutants. <i>Building and Environment</i> , 2022, 207, 108553.	3.0	11
74	Realistic Forests and the Modeling of Forest-Atmosphere Exchange. <i>Reviews of Geophysics</i> , 2022, 60, e2021RG000746.	9.0	6
75	Urban greenery for air pollution control: a meta-analysis of current practice, progress, and challenges. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 235.	1.3	11
76	The influence of roadside green belts and street canyon aspect ratios on air pollution dispersion and personal exposure. <i>Urban Climate</i> , 2022, 44, 101236.	2.4	10
77	Effect of buoyancy on dispersion of reactive pollutants in urban canyons. <i>Atmospheric Pollution Research</i> , 2022, 13, 101502.	1.8	2

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78	Spatiotemporal Spectral Analysis of Turbulent Structures and Pollutant Removal in Two-Dimensional Street Canyon. <i>Boundary-Layer Meteorology</i> , 2022, 185, 63-91.	1.2	2
79	The neighbourhood environment and profiles of the metabolic syndrome. <i>Environmental Health</i> , 2022, 21, .	1.7	4
80	Chemistry, transport, emission, and shading effects on NO ₂ and Ox distributions within urban canyons. <i>Environmental Pollution</i> , 2022, 315, 120347.	3.7	5
81	Nature-based solution for mitigation of pedestriansâ€™ exposure to airborne particles of traffic origin in a tropical city. <i>Sustainable Cities and Society</i> , 2022, 87, 104264.	5.1	4
83	Numerical studies on Re-independence and influence region definition for flow and dispersion within street-indoor scale model. <i>Building and Environment</i> , 2023, 229, 109949.	3.0	3
84	Development and application of a multi-scale modeling framework for urban high-resolution NO ₂ pollution mapping. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 15685-15702.	1.9	4
85	Chemistry, street canyon geometry, and emissions effects on NO ₂ hotspots and regulatory wiggle room. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	2
86	BTEX proportions as an indicator of benzene hotspots and dispersion trends in cities where sea and land breezes dominate. <i>Air Quality, Atmosphere and Health</i> , 2023, 16, 733-744.	1.5	4
87	Modeling and assessment of the flow and air pollutants dispersion during chemical reactions from power plant activities. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2023, 24, 1-24.	0.4	0
88	Multi-Box Modelling of Cooking-Generated Aerosols within an Urban Street Canyon. <i>Atmospheric Environment</i> , 2023, 304, 119748.	1.9	0
89	Combined Effects of Photochemical Processes, Pollutant Sources and Urban Configuration on Photochemical Pollutant Concentrations. <i>Sustainability</i> , 2023, 15, 3281.	1.6	0
90	Improving NO ₂ prediction by integrating tree diversity, urban form, and scale sensitivity through mobile monitoring. <i>Applied Geography</i> , 2023, 154, 102943.	1.7	3