

# Mehmet T Odman

## List of Publications by Year in descending order

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86  
papers

2,327  
citations

218592

26  
h-index

233338

45  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Source apportionment of ozone and fine particulate matter in the United States for 2016 and 2028. <i>Atmospheric Environment</i> , 2022, 285, 119226.	1.9	6
2	Estimating US Background Ozone Using Data Fusion. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4504-4512.	4.6	5
3	Application and evaluation of a low-cost PM sensor and data fusion with CMAQ simulations to quantify the impacts of prescribed burning on air quality in Southwestern Georgia, USA. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 815-829.	0.9	5
4	Satellite Monitoring for Air Quality and Health. <i>Annual Review of Biomedical Data Science</i> , 2021, 4, 417-447.	2.8	25
5	Biases in air quality models capturing ozone trends at the urban, regional and national scales: Impacts on Relative Response Factors (RRFs). <i>Atmospheric Environment</i> , 2021, 266, 118722.	1.9	2
6	Novel Method for Ozone Isopleth Construction and Diagnosis for the Ozone Control Strategy of Chinese Cities. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15625-15636.	4.6	39
7	Greater Contribution From Agricultural Sources to Future Reactive Nitrogen Deposition in the United States. <i>Earth's Future</i> , 2020, 8, e2019EF001453.	2.4	3
8	Apportioning prescribed fire impacts on PM <sub>2.5</sub> among individual fires through dispersion modeling. <i>Atmospheric Environment</i> , 2020, 223, 117260.	1.9	7
9	Interstate transport of ozone in eastern United States: An analysis of the impact of southeastern states' emissions in 2017. <i>Atmospheric Environment</i> , 2020, 236, 117628.	1.9	7
10	Global Fire Forecasts Using Both Large-Scale Climate Indices and Local Meteorological Parameters. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1129-1145.	1.9	17
11	The Impacts of Prescribed Fire on PM <sub>2.5</sub> Air Quality and Human Health: Application to Asthma-Related Emergency Room Visits in Georgia, USA. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2312.	1.2	25
12	Development of a WebGIS-Based Analysis Tool for Human Health Protection from the Impacts of Prescribed Fire Smoke in Southeastern USA. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1981.	1.2	8
13	African American Exposure to Prescribed Fire Smoke in Georgia, USA. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3079.	1.2	13
14	Relaxing Energy Policies Coupled with Climate Change Will Significantly Undermine Efforts to Attain US Ozone Standards. <i>One Earth</i> , 2019, 1, 229-239.	3.6	13
15	Improving ozone simulations in the Great Lakes Region: The role of emissions, chemistry, and dry deposition. <i>Atmospheric Environment</i> , 2019, 202, 167-179.	1.9	36
16	Machine Learning-Based Integration of High-Resolution Wildfire Smoke Simulations and Observations for Regional Health Impact Assessment. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2137.	1.2	31
17	Examination of Nudging Schemes in the Simulation of Meteorology for Use in Air Quality Experiments: Application in the Great Lakes Region. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2421-2436.	0.6	9
18	Evaluation of WRF parameterizations for global horizontal irradiation forecasts: A study for Turkey. <i>Atmosfera</i> , 2019, 32, 143-158.	0.3	9

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19	Burned Area Comparisons Between Prescribed Burning Permits in Southeastern United States and Two Satellite-Derived Products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4746-4757.	1.2	25
20	Forecasting the Impacts of Prescribed Fires for Dynamic Air Quality Management. <i>Atmosphere</i> , 2018, 9, 220.	1.0	9
21	Recommendations on statistics and benchmarks to assess photochemical model performance. <i>Journal of the Air and Waste Management Association</i> , 2017, 67, 582-598.	0.9	326
22	Source-Impact Forecasting for Dynamic Air Quality Management: Application to Prescribed Burn Management. <i>Springer Proceedings in Complexity</i> , 2016, , 575-579.	0.2	0
23	Atmospheric Plume Modeling with a Three-Dimensional Refinement Adaptive Grid Method. <i>Springer Proceedings in Complexity</i> , 2016, , 409-413.	0.2	0
24	Chemical transport model consistency in simulating regulatory outcomes and the relationship to model performance. <i>Atmospheric Environment</i> , 2015, 116, 159-171.	1.9	13
25	Operational forecasting of source impacts for dynamic air quality management. <i>Atmospheric Environment</i> , 2015, 116, 320-322.	1.9	7
26	Fire emission uncertainties and their effect on smoke dispersion predictions: a case study at Eglin Air Force Base, Florida, USA. <i>International Journal of Wildland Fire</i> , 2015, 24, 276.	1.0	11
27	Simulating smoke transport from wildland fires with a regional-scale air quality model: Sensitivity to spatiotemporal allocation of fire emissions. <i>Science of the Total Environment</i> , 2014, 493, 544-553.	3.9	33
28	Fine particulate matter source apportionment using a hybrid chemical transport and receptor model approach. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5415-5431.	1.9	42
29	Development and Evaluation of an Air Quality Model for Predicting the Impacts of Prescribed Burns. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014, , 517-521.	0.1	0
30	Analysis of surface ozone and nitrogen oxides at urban, semi-rural and rural sites in Istanbul, Turkey. <i>Science of the Total Environment</i> , 2013, 443, 920-931.	3.9	49
31	Simulating smoke transport from wildland fires with a regional-scale air quality model: Sensitivity to uncertain wind fields. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6493-6504.	1.2	34
32	Modeling secondary organic aerosol in CMAQ using multigenerational oxidation of semi-volatile organic compounds. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	26
33	Concentrations and sources of PAHs at three stations in Istanbul, Turkey. <i>Atmospheric Research</i> , 2011, 99, 391-399.	1.8	73
34	Modeling Smoke Plume-Rise and Dispersion from Southern United States Prescribed Burns with Daysmoke. <i>Atmosphere</i> , 2011, 2, 358-388.	1.0	53
35	The impact of anthropogenic and biogenic emissions on surface ozone concentrations in Istanbul. <i>Science of the Total Environment</i> , 2011, 409, 1255-1265.	3.9	53
36	Adaptive Grid Use in Air Quality Modeling. <i>Atmosphere</i> , 2011, 2, 484-509.	1.0	20

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37	The Impact of Anthropogenic and Biogenic Emissions on Surface Ozone Concentrations in Istanbul: A Modeling Study. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 103-106.	0.1	0
38	A variable timeâ€“step algorithm for air quality models. Atmospheric Pollution Research, 2010, 1, 229-238.	1.8	6
39	Using synoptic classification to evaluate an operational air quality forecasting system in Atlanta. Atmospheric Pollution Research, 2010, 1, 280-287.	1.8	16
40	An adaptive grid version of CMAQ for improving the resolution of plumes. Atmospheric Pollution Research, 2010, 1, 239-249.	1.8	28
41	Quantifying the sources of ozone, fine particulate matter, and regional haze in the Southeastern United States. Journal of Environmental Management, 2009, 90, 3155-3168.	3.8	23
42	Sensitivity of inverse estimation of 2004 elemental carbon emissions inventory in the United States to the choice of observational networks. Geophysical Research Letters, 2009, 36, .	1.5	26
43	Topâ€“down analysis of the elemental carbon emissions inventory in the United States by inverse modeling using Community Multiscale Air Quality model with decoupled direct method (CMAQâ€“DDM). Journal of Geophysical Research, 2009, 114, .	3.3	21
44	Extension and evaluation of sensitivity analysis capabilities in a photochemical model. Environmental Modelling and Software, 2008, 23, 994-999.	1.9	65
45	A comparison of mass conservation methods for air quality models. Atmospheric Environment, 2008, 42, 8322-8330.	1.9	3
46	Single-Source Impact Analysis Using Three-Dimensional Air Quality Models. Journal of the Air and Waste Management Association, 2008, 58, 1351-1359.	0.9	24
47	Simulation of Air Quality Impacts from Prescribed Fires on an Urban Area. Environmental Science & Technology, 2008, 42, 3676-3682.	4.6	53
48	Determining the Sources of Regional Haze in the Southeastern United States Using the CMAQ Model. Journal of Applied Meteorology and Climatology, 2007, 46, 1731-1743.	0.6	16
49	Chapter 2.14 Forecasting ozone and PM2.5 in southeastern U.S.. Developments in Environmental Science, 2007, 6, 220-229.	0.5	0
50	Regional Air Quality:â€“ Local and Interstate Impacts of NOx and SO2 Emissions on Ozone and Fine Particulate Matter in the Eastern United States. Environmental Science & Technology, 2007, 41, 4677-4689.	4.6	20
51	Study of Air Pollutant Transport in Northern and Western Turkey. , 2007, , 656-658.		0
52	Integrated Assessment Modeling of Atmospheric Pollutants in the Southern Appalachian Mountains: Part II. Fine Particulate Matter and Visibility. Journal of the Air and Waste Management Association, 2006, 56, 12-22.	0.9	31
53	Re-examination of the 2003 North American electrical blackout impacts on regional air quality. Geophysical Research Letters, 2006, 33, .	1.5	7
54	Mass conservation in the Community Multiscale Air Quality model. Atmospheric Environment, 2006, 40, 1199-1204.	1.9	27

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55	Long-range aerosol transport from Europe to Istanbul, Turkey. Atmospheric Environment, 2006, 40, 3536-3547.	1.9	58
56	Evaluation of algorithms developed for adaptive grid air quality modeling using surface elevation data. Computers, Environment and Urban Systems, 2005, 29, 718-734.	3.3	5
57	Airport related emissions and impacts on air quality: Application to the Atlanta International Airport. Atmospheric Environment, 2005, 39, 5787-5798.	1.9	178
58	Integrated Assessment Modeling of Atmospheric Pollutants in the Southern Appalachian Mountains. Part I: Hourly and Seasonal Ozone. Journal of the Air and Waste Management Association, 2005, 55, 1019-1030.	0.9	9
59	Multiscale Air Quality Simulation Platform (MAQSIP): Initial applications and performance for tropospheric ozone and particulate matter. Journal of Geophysical Research, 2005, 110, .	3.3	31
60	Initial Application of the Adaptive Grid Air Quality Model. , 2004, , 319-328.		4
61	Regional, three-dimensional assessment of the ozone formation potential of organic compounds. Atmospheric Environment, 2004, 38, 121-134.	1.9	20
62	Estimates of PM2.5 levels in the southeastern United States for the year 2010: What else can be done?. Fuel Processing Technology, 2004, 85, 631-639.	3.7	4
63	Comment on "Geographic Sensitivity of Fine Particle Mass to Emissions of SO2 and NOx". Environmental Science & Technology, 2004, 38, 4910-4910.	4.6	2
64	Nonlinearity in atmospheric response: A direct sensitivity analysis approach. Journal of Geophysical Research, 2004, 109, .	3.3	78
65	Adaptive Grids in Air Pollution Modeling: Towards an Operational Model. , 2004, , 541-549.		1
66	Estimates of Future PM2.5 Levels in Southeastern United States. , 2004, , 163-170.		0
67	High-Order, Direct Sensitivity Analysis of Multidimensional Air Quality Models. Environmental Science & Technology, 2003, 37, 2442-2452.	4.6	170
68	Integrated modeling for air quality assessment: The Southern Appalachians Mountains initiative project. European Physical Journal Special Topics, 2002, 12, 211-234.	0.2	9
69	Development of a comprehensive, multiscale "one-atmosphere" modeling system: application to the Southern Appalachian Mountains. Atmospheric Environment, 2002, 36, 3721-3734.	1.9	38
70	Comment on "On the indicator-based approach to assess ozone sensitivities and emissions features" by Cheng-Hsuan Lu and Julius S. Chang. Journal of Geophysical Research, 2001, 106, 20941-20944.	3.3	3
71	Simulation of dispersion of a power plant plume using an adaptive grid algorithm. Atmospheric Environment, 2001, 35, 4801-4818.	1.9	18
72	An Adaptive Grid Algorithm for Air-Quality Modeling. Journal of Computational Physics, 2000, 165, 437-472.	1.9	31

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73	Ozone Sensitivity and Uncertainty Analysis Using DDM-3D in a Photochemical Air Quality Model. , 2000, , 183-194.		2
74	Mass Conservative Coupling of Non-Hydrostatic Meteorological Models with Air Quality Models. , 2000, , 651-660.		17
75	An automatic differentiation technique for sensitivity analysis of numerical advection schemes in air quality models. Atmospheric Environment, 1997, 31, 879-888.	1.9	30
76	A quantitative analysis of numerical diffusion introduced by advection algorithms in air quality models. Atmospheric Environment, 1997, 31, 1933-1940.	1.9	28
77	Emerging Air Quality Modeling Technologies for High Performance Computing and Communication Environments. , 1996, , 491-502.		2
78	On local finite element refinements in multiscale air quality modeling. Environmental Software, 1994, 9, 61-66.	0.3	5
79	Multiscale air quality modeling: Application to southern California. Journal of Geophysical Research, 1994, 99, 5385.	3.3	38
80	Airshed Model Evaluation of Reactivity Adjustment Factors Calculated with the Maximum Incremental Reactivity Scale for Transitional-Low Emission Vehicles. Journal of the Air and Waste Management Association, 1994, 44, 900-907.	0.6	9
81	Future directions in photochemical air quality modeling. Water, Air, and Soil Pollution, 1993, 67, 181-193.	1.1	4
82	A nonlinear filtering algorithm for multi-dimensional finite element pollutant advection schemes. Atmospheric Environment Part A General Topics, 1993, 27, 793-799.	1.3	7
83	A comparison of fast chemical kinetic solvers for air quality modeling. Atmospheric Environment Part A General Topics, 1992, 26, 1783-1789.	1.3	39
84	Airshed Calculation of the Sensitivity of Pollutant Formation to Organic Compound Classes and Oxygenates Associated with Alternative Fuels. Journal of the Air and Waste Management Association, 1992, 42, 174-178.	0.2	16
85	A multiscale finite element pollutant transport scheme for urban and regional modeling. Atmospheric Environment Part A General Topics, 1991, 25, 2385-2394.	1.3	29
86	Multiscale modeling of pollutant transport and chemistry. Journal of Geophysical Research, 1991, 96, 7363-7370.	3.3	42