

Tomohiro Oda

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

3,322
citations

218592

26
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233338

45
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47
all docs

47
docs citations

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times ranked

2987
citing authors

#	ARTICLE	IF	CITATIONS
1	A very high-resolution (1 km ² –1 km ²) global fossil fuel CO ₂ emission inventory derived using a point source database and satellite observations of nighttime lights. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 543-556.	1.9	437
2	The Open-source Data Inventory for Anthropogenic CO ₂ , version 2016 (ODIAC2016): a global monthly fossil fuel CO ₂ gridded emissions data product for tracer transport simulations and surface flux inversions. <i>Earth System Science Data</i> , 2018, 10, 87-107.	3.7	360
3	NASA's Black Marble nighttime lights product suite. <i>Remote Sensing of Environment</i> , 2018, 210, 113-143.	4.6	312
4	A synthesis of carbon dioxide emissions from fossil-fuel combustion. <i>Biogeosciences</i> , 2012, 9, 1845-1871.	1.3	271
5	High-resolution atmospheric inversion of urban CO ₂ emissions during the dormant season of the Indianapolis Flux Experiment (INFLUX). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5213-5236.	1.2	219
6	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x and CO ₂ and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3661-3677.	1.9	142
7	Regional CO ₂ flux estimates for 2009–2010 based on GOSAT and ground-based CO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9351-9373.	1.9	135
8	Improving the temporal and spatial distribution of CO ₂ emissions from global fossil fuel emission data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 917-933.	1.2	122
9	The 2015–2016 carbon cycle as seen from OCO-2 and the global in situ network. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9797-9831.	1.9	113
10	An intercomparison of inverse models for estimating sources and sinks of CO ₂ using GOSAT measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5253-5266.	1.2	105
11	Assessing the recent impact of COVID-19 on carbon emissions from China using domestic economic data. <i>Science of the Total Environment</i> , 2021, 750, 141688.	3.9	92
12	Global impact of COVID-19 restrictions on the surface concentrations of nitrogen dioxide and ozone. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3555-3592.	1.9	91
13	Errors and uncertainties in a gridded carbon dioxide emissions inventory. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019, 24, 1007-1050.	1.0	77
14	Comparing GOSAT observations of localized CO ₂ enhancements by large emitters with inventory-based estimates. <i>Geophysical Research Letters</i> , 2016, 43, 3486-3493.	1.5	74
15	Space-based quantification of per capita CO ₂ emissions from cities. <i>Environmental Research Letters</i> , 2020, 15, 035004.	2.2	62
16	On the Benefit of GOSAT Observations to the Estimation of Regional CO ₂ Fluxes. <i>Scientific Online Letters on the Atmosphere</i> , 2011, 7, 161-164.	0.6	59
17	Southern California megacity CO ₂ , CH ₄ , and CO flux estimates using ground- and space-based remote sensing and a Lagrangian model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16271-16291.	1.9	56
18	A Lagrangian approach towards extracting signals of urban CO ₂ emissions from satellite observations of atmospheric column CO ₂ (XCO ₂): X-Stochastic Time-Inverted Lagrangian Transport model (X-STILT v1). <i>Geoscientific Model Development</i> , 2018, 11, 4843-4871.	1.3	56

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19	Policy-Relevant Assessment of Urban CO ₂ Emissions. Environmental Science & Technology, 2020, 54, 10237-10245.	4.6	52
20	Constraining Fossil Fuel CO ₂ Emissions From Urban Area Using OCO ₂ Observations of Total Column CO ₂ . Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030528.	1.2	48
21	Urban-focused satellite CO ₂ observations from the Orbiting Carbon Observatory-3: A first look at the Los Angeles megacity. Remote Sensing of Environment, 2021, 258, 112314.	4.6	48
22	Exploiting OMI NO ₂ satellite observations to infer fossil-fuel CO ₂ emissions from U.S. megacities. Science of the Total Environment, 2019, 695, 133805.	3.9	37
23	On the impact of granularity of space-based urban CO ₂ emissions in urban atmospheric inversions: A case study for Indianapolis, IN. Elementa, 2017, 5, 28.	1.1	34
24	Regional impacts of COVID-19 on carbon dioxide detected worldwide from space. Science Advances, 2021, 7, eabf9415.	4.7	33
25	Simulating estimation of California fossil fuel and biosphere carbon dioxide exchanges combining in situ tower and satellite column observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3653-3671.	1.2	32
26	Investigating sources of variability and error in simulations of carbon dioxide in an urban region. Atmospheric Environment, 2019, 199, 55-69.	1.9	28
27	Daily CO ₂ Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. Innovation(China), 2020, 1, 100062.	5.2	25
28	A Road Map for Improving the Treatment of Uncertainties in High-Resolution Regional Carbon Flux Inverse Estimates. Geophysical Research Letters, 2019, 46, 13461-13469.	1.5	23
29	Technical note: A high-resolution inverse modelling technique for estimating surface CO ₂ fluxes based on the NIES-TM ² FLEXPART coupled transport model and its adjoint. Atmospheric Chemistry and Physics, 2021, 21, 1245-1266.	1.9	23
30	Bayesian inverse estimation of urban CO ₂ emissions: Results from a synthetic data simulation over Salt Lake City, UT. Elementa, 2019, 7, .	1.1	20
31	A model for urban biogenic CO ₂ fluxes: Solar-Induced Fluorescence for Modeling Urban biogenic Fluxes (SMUrF v1). Geoscientific Model Development, 2021, 14, 3633-3661.	1.3	18
32	A high-definition spatially explicit modelling approach for national greenhouse gas emissions from industrial processes: reducing the errors and uncertainties in global emission modelling. Mitigation and Adaptation Strategies for Global Change, 2019, 24, 907-939.	1.0	15
33	Bias-correcting carbon fluxes derived from land-surface satellite data for retrospective and near-real-time assimilation systems. Atmospheric Chemistry and Physics, 2021, 21, 9609-9628.	1.9	14
34	Far-field biogenic and anthropogenic emissions as a dominant source of variability in local urban carbon budgets: A global high-resolution model study with implications for satellite remote sensing. Remote Sensing of Environment, 2021, 262, 112473.	4.6	12
35	Fluxes of Atmospheric Greenhouse Gases in Maryland (FLAGG-MD): Emissions of Carbon Dioxide in the Baltimore, MD-Washington, D.C. Area. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032004.	1.2	11
36	Errors and uncertainties associated with the use of unconventional activity data for estimating CO ₂ emissions: the case for traffic emissions in Japan. Environmental Research Letters, 2021, 16, 084058.	2.2	10

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37	Global to local impacts on atmospheric CO ₂ from the COVID-19 lockdown, biosphere and weather variabilities. Environmental Research Letters, 2022, 17, 015003.	2.2	10
38	Examining partial-column density retrieval of lower-tropospheric CO ₂ from GOSAT target observations over global megacities. Remote Sensing of Environment, 2022, 273, 112966.	4.6	9
39	The impacts of fossil fuel emission uncertainties and accounting for 3-D chemical CO ₂ production on inverse natural carbon flux estimates from satellite and in situ data. Environmental Research Letters, 2020, 15, 085002.	2.2	7
40	An Interpolation Method to Reduce the Computational Time in the Stochastic Lagrangian Particle Dispersion Modeling of Spatially Dense XCO ₂ Retrievals. Earth and Space Science, 2021, 8, e2020EA001343.	1.1	7
41	Anthropogenic Osmium in Macroalgae from Tokyo Bay Reveals Widespread Contamination from Municipal Solid Waste. Environmental Science & Technology, 2020, 54, 9356-9365.	4.6	5
42	Impact of a Regional U.S. Drought on Land and Atmospheric Carbon. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005599.	1.3	5
43	The Use of a High-Resolution Emission Data Set in a Global Eulerian-Lagrangian Coupled Model. Geophysical Monograph Series, 2013, , 173-184.	0.1	3
44	Formulating a Geolocation Bias Correction for DMSP Nighttime Lights of Global Cities. Advances in Intelligent Systems and Computing, 2021, , 383-398.	0.5	1
45	Mitigating geolocation errors in nighttime light satellite data and global CO ₂ emission gridded data. Mathematical Modeling and Computing, 2021, 8, 304-316.	0.4	1