

Tomohiro Oda

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

3,322
citations

218592

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docs citations

47
times ranked

2987
citing authors

#	ARTICLE	IF	CITATIONS
1	Examining partial-column density retrieval of lower-tropospheric CO ₂ from GOSAT target observations over global megacities. <i>Remote Sensing of Environment</i> , 2022, 273, 112966.	4.6	9
2	Global to local impacts on atmospheric CO ₂ from the COVID-19 lockdown, biosphere and weather variabilities. <i>Environmental Research Letters</i> , 2022, 17, 015003.	2.2	10
3	Formulating a Geolocation Bias Correction for DMSP Nighttime Lights of Global Cities. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 383-398.	0.5	1
4	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
5	Mitigating geolocation errors in nighttime light satellite data and global CO ₂ emission gridded data. <i>Mathematical Modeling and Computing</i> , 2021, 8, 304-316.	0.4	1
6	Technical note: A high-resolution inverse modelling technique for estimating surface CO ₂ fluxes based on the NIES-TMâ€FLEXPART coupled transport model and its adjoint. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1245-1266.	1.9	23
7	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
8	An Interpolation Method to Reduce the Computational Time in the Stochastic Lagrangian Particle Dispersion Modeling of Spatially Dense XCO ₂ Retrievals. <i>Earth and Space Science</i> , 2021, 8, e2020EA001343.	1.1	7
9	Bias-correcting carbon fluxes derived from land-surface satellite data for retrospective and near-real-time assimilation systems. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9609-9628.	1.9	14
10	Urban-focused satellite CO ₂ observations from the Orbiting Carbon Observatory-3: A first look at the Los Angeles megacity. <i>Remote Sensing of Environment</i> , 2021, 258, 112314.	4.6	48
11	A model for urban biogenic CO ₂ fluxes: Solar-Induced Fluorescence for Modeling Urban biogenic Fluxes (SMUrF v1). <i>Geoscientific Model Development</i> , 2021, 14, 3633-3661.	1.3	18
12	Errors and uncertainties associated with the use of unconventional activity data for estimating CO ₂ emissions: the case for traffic emissions in Japan. <i>Environmental Research Letters</i> , 2021, 16, 084058.	2.2	10
13	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. <i>Remote Sensing of Environment</i> , 2021, 262, 112473.	4.6	12
14	Regional impacts of COVID-19 on carbon dioxide detected worldwide from space. <i>Science Advances</i> , 2021, 7, eabf9415.	4.7	33
15	Daily CO ₂ Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. <i>Innovation(China)</i> , 2020, 1, 100062.	5.2	25
16	Policy-Relevant Assessment of Urban CO ₂ Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 10237-10245.	4.6	52
17	Fluxes of Atmospheric Greenhouse Gases in Maryland (FLAGGâ€MD): Emissions of Carbon Dioxide in the Baltimore, MDâ€Washington, D.C. Area. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032004.	1.2	11
18	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. <i>Environmental Research Letters</i> , 2020, 15, 085002.	2.2	7

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19	Anthropogenic Osmium in Macroalgae from Tokyo Bay Reveals Widespread Contamination from Municipal Solid Waste. <i>Environmental Science & Technology</i> , 2020, 54, 9356-9365.	4.6	5
20	Impact of a Regional U.S. Drought on Land and Atmospheric Carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005599.	1.3	5
21	Space-based quantification of per capita CO ₂ emissions from cities. <i>Environmental Research Letters</i> , 2020, 15, 035004.	2.2	62
22	Constraining Fossil Fuel CO ₂ Emissions From Urban Area Using OCO-2 Observations of Total Column CO ₂ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030528.	1.2	48
23	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
24	A Road Map for Improving the Treatment of Uncertainties in High-Resolution Regional Carbon Flux Inverse Estimates. <i>Geophysical Research Letters</i> , 2019, 46, 13461-13469.	1.5	23
25	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
26	Exploiting OMI NO ₂ satellite observations to infer fossil-fuel CO ₂ emissions from U.S. megacities. <i>Science of the Total Environment</i> , 2019, 695, 133805.	3.9	37
27	A high-definition spatially explicit modelling approach for national greenhouse gas emissions from industrial processes: reducing the errors and uncertainties in global emission modelling. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019, 24, 907-939.	1.0	15
28	Investigating sources of variability and error in simulations of carbon dioxide in an urban region. <i>Atmospheric Environment</i> , 2019, 199, 55-69.	1.9	28
29	Bayesian inverse estimation of urban CO ₂ emissions: Results from a synthetic data simulation over Salt Lake City, UT. <i>Elementa</i> , 2019, 7, .	1.1	20
30	NASA's Black Marble nighttime lights product suite. <i>Remote Sensing of Environment</i> , 2018, 210, 113-143.	4.6	312
31	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
32	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
33	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
34	Simulating estimation of California fossil fuel and biosphere carbon dioxide exchanges combining in situ tower and satellite column observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3653-3671.	1.2	32
35	On the impact of granularity of space-based urban CO ₂ emissions in urban atmospheric inversions: A case study for Indianapolis, IN. <i>Elementa</i> , 2017, 5, 28.	1.1	34
36	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

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37	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
38	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
39	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
40	The Use of a High-Resolution Emission Data Set in a Global Eulerian-Lagrangian Coupled Model. <i>Geophysical Monograph Series</i> , 2013, , 173-184.	0.1	3
41	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
42	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
43	A synthesis of carbon dioxide emissions from fossil-fuel combustion. <i>Biogeosciences</i> , 2012, 9, 1845-1871.	1.3	271
44	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
45	A very high-resolution (1 km ² –1 km) 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