

Jan Fuglestedt

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

7,793
citations

53794

45
h-index

56724

83
g-index

105
all docs

105
docs citations

105
times ranked

7333
citing authors

#	ARTICLE	IF	CITATIONS
1	Alternatives to the Global Warming Potential for Comparing Climate Impacts of Emissions of Greenhouse Gases. <i>Climatic Change</i> , 2005, 68, 281-302.	3.6	533
2	Carbon dioxide and climate impulse response functions for the computation of greenhouse gas metrics: a multi-model analysis. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2793-2825.	4.9	517
3	Emission budgets and pathways consistent with limiting warming to 1.5°C. <i>Nature Geoscience</i> , 2017, 10, 741-747.	12.9	422
4	Global warming potentials and radiative efficiencies of halocarbons and related compounds: A comprehensive review. <i>Reviews of Geophysics</i> , 2013, 51, 300-378.	23.0	390
5	Evaluating the climate and air quality impacts of short-lived pollutants. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10529-10566.	4.9	365
6	Climate forcing from the transport sectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 454-458.	7.1	269
7	Metrics of Climate Change: Assessing Radiative Forcing and Emission Indices. <i>Climatic Change</i> , 2003, 58, 267-331.	3.6	268
8	Achievements and needs for the climate change scenario framework. <i>Nature Climate Change</i> , 2020, 10, 1074-1084.	18.8	245
9	A solution to the misrepresentations of CO ₂ -equivalent emissions of short-lived climate pollutants under ambitious mitigation. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	6.8	230
10	How northern peatlands influence the Earth's radiative budget: Sustained methane emission versus sustained carbon sequestration. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	196
11	Comparing the climate effect of emissions of short- and long-lived climate agents. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1903-1914.	3.4	164
12	Improved calculation of warming-equivalent emissions for short-lived climate pollutants. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, 29.	6.8	162
13	New use of global warming potentials to compare cumulative and short-lived climate pollutants. <i>Nature Climate Change</i> , 2016, 6, 773-776.	18.8	160
14	Climate Impacts From a Removal of Anthropogenic Aerosol Emissions. <i>Geophysical Research Letters</i> , 2018, 45, 1020-1029.	4.0	160
15	Future emissions from shipping and petroleum activities in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5305-5320.	4.9	129
16	Current fossil fuel infrastructure does not yet commit us to 1.5°C warming. <i>Nature Communications</i> , 2019, 10, 101.	12.8	125
17	Global and regional temperature-change potentials for near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2471-2485.	4.9	122
18	Shipping Emissions: From Cooling to Warming of Climate and Reducing Impacts on Health. <i>Environmental Science & Technology</i> , 2009, 43, 9057-9062.	10.0	111

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19	Enhancing life cycle impact assessment from climate science: Review of recent findings and recommendations for application to LCA. <i>Ecological Indicators</i> , 2016, 71, 163-174.	6.3	108
20	Effects of anthropogenic emissions on tropospheric ozone and its radiative forcing. <i>Journal of Geophysical Research</i> , 1997, 102, 28101-28126.	3.3	104
21	Abatement of Greenhouse Gases: Does Location Matter?. <i>Climatic Change</i> , 2006, 74, 377-411.	3.6	103
22	Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 561-583.	3.3	93
23	Response of climate to regional emissions of ozone precursors: sensitivities and warming potentials. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005, 57, 283-304.	1.6	88
24	Alternative "Global Warming" Metrics in Life Cycle Assessment: A Case Study with Existing Transportation Data. <i>Environmental Science & Technology</i> , 2011, 45, 8633-8641.	10.0	88
25	Response of climate to regional emissions of ozone precursors: sensitivities and warming potentials. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 57, 283.	1.6	85
26	Contributions of individual countries' emissions to climate change and their uncertainty. <i>Climatic Change</i> , 2011, 106, 359-391.	3.6	85
27	Global temperature responses to current emissions from the transport sectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19154-19159.	7.1	84
28	Estimates of indirect global warming potentials for CH ₄ , CO and NO _x . <i>Climatic Change</i> , 1996, 34, 405-437.	3.6	81
29	The integrated global temperature change potential (iGTP) and relationships between emission metrics. <i>Environmental Research Letters</i> , 2011, 6, 044021.	5.2	81
30	Global temperature change from the transport sectors: Historical development and future scenarios. <i>Atmospheric Environment</i> , 2009, 43, 6260-6270.	4.1	80
31	Analysing countries' contribution to climate change: scientific and policy-related choices. <i>Environmental Science and Policy</i> , 2005, 8, 614-636.	4.9	77
32	Implications of possible interpretations of "greenhouse gas balance" in the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20160445.	3.4	72
33	Accounting for the climate's carbon feedback in emission metrics. <i>Earth System Dynamics</i> , 2017, 8, 235-253.	7.1	71
34	Delayed emergence of a global temperature response after emission mitigation. <i>Nature Communications</i> , 2020, 11, 3261.	12.8	71
35	Bridging the gap between impact assessment methods and climate science. <i>Environmental Science and Policy</i> , 2016, 64, 129-140.	4.9	69
36	Policy Update: Multicomponent climate policy: why do emission metrics matter?. <i>Carbon Management</i> , 2010, 1, 191-197.	2.4	64

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37	Short-lived climate forcers from current shipping and petroleum activities in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1979-1993.	4.9	64
38	Tropospheric ozone and aerosols in climate agreements: scientific and political challenges. <i>Environmental Science and Policy</i> , 2005, 8, 29-43.	4.9	60
39	Updated Global Warming Potentials and Radiative Efficiencies of Halocarbons and Other Weak Atmospheric Absorbers. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000691.	23.0	60
40	Perspective has a strong effect on the calculation of historical contributions to global warming. <i>Environmental Research Letters</i> , 2017, 12, 024022.	5.2	57
41	Climate implications of GWP-based reductions in greenhouse gas emissions. <i>Geophysical Research Letters</i> , 2000, 27, 409-412.	4.0	55
42	A unifying framework for metrics for aggregating the climate effect of different emissions. <i>Environmental Research Letters</i> , 2012, 7, 044006.	5.2	55
43	Stable climate metrics for emissions of short and long-lived species—combining steps and pulses. <i>Environmental Research Letters</i> , 2020, 15, 024018.	5.2	54
44	Simple emission metrics for climate impacts. <i>Earth System Dynamics</i> , 2013, 4, 145-170.	7.1	53
45	Scientific issues in the design of metrics for inclusion of oxides of nitrogen in global climate agreements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15768-15773.	7.1	52
46	Climate agreements based on responsibility for global warming: Periodic updating, policy choices, and regional costs. <i>Global Environmental Change</i> , 2006, 16, 182-194.	7.8	52
47	Local Arctic air pollution: Sources and impacts. <i>Ambio</i> , 2017, 46, 453-463.	5.5	52
48	Short- and long-term greenhouse gas and radiative forcing impacts of changing water management in Asian rice paddies. <i>Global Change Biology</i> , 2004, 10, 1180-1196.	9.5	51
49	Aircraft routing with minimal climate impact: the REACT4C climate cost function modelling approach (V1.0). <i>Geoscientific Model Development</i> , 2014, 7, 175-201.	3.6	51
50	Assigning historic responsibility for extreme weather events. <i>Nature Climate Change</i> , 2017, 7, 757-759.	18.8	49
51	The social cost of methane: theory and applications. <i>Faraday Discussions</i> , 2017, 200, 429-451.	3.2	47
52	Specific Climate Impact of Passenger and Freight Transport. <i>Environmental Science & Technology</i> , 2010, 44, 5700-5706.	10.0	44
53	Impacts of the Large Increase in International Ship Traffic 2000~2007 on Tropospheric Ozone and Methane. <i>Environmental Science & Technology</i> , 2010, 44, 2482-2489.	10.0	43
54	Short-lived uncertainty?. <i>Nature Geoscience</i> , 2010, 3, 587-588.	12.9	42

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55	Limitations of single-basket trading: lessons from the Montreal Protocol for climate policy. <i>Climatic Change</i> , 2012, 111, 241-248.	3.6	40
56	Feasibility of climate-optimized air traffic routing for trans-Atlantic flights. <i>Environmental Research Letters</i> , 2017, 12, 034003.	5.2	39
57	Emission metrics under the 2°C climate stabilization target. <i>Climatic Change</i> , 2013, 117, 933-941.	3.6	37
58	Environmental impacts of shipping in 2030 with a particular focus on the Arctic region. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1941-1955.	4.9	35
59	Emission metrics for quantifying regional climate impacts of aviation. <i>Earth System Dynamics</i> , 2017, 8, 547-563.	7.1	35
60	Regional emission metrics for short-lived climate forcers from multiple models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7451-7468.	4.9	34
61	Mode, Load, And Specific Climate Impact from Passenger Trips. <i>Environmental Science & Technology</i> , 2013, 47, 7608-7614.	10.0	29
62	Reducing CO ₂ from shipping – do non-CO ₂ effects matter?. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4183-4201.	4.9	29
63	Climate Penalty for Shifting Shipping to the Arctic. <i>Environmental Science & Technology</i> , 2014, 48, 13273-13279.	10.0	29
64	Climate Effects of Emission Standards: The Case for Gasoline and Diesel Cars. <i>Environmental Science & Technology</i> , 2012, 46, 5205-5213.	10.0	28
65	Global-Mean Temperature Change from Shipping toward 2050: Improved Representation of the Indirect Aerosol Effect in Simple Climate Models. <i>Environmental Science & Technology</i> , 2012, 46, 8868-8877.	10.0	27
66	How much information is lost by using global-mean climate metrics? an example using the transport sector. <i>Climatic Change</i> , 2012, 113, 949-963.	3.6	26
67	Climate and air quality-driven scenarios of ozone and aerosol precursor abatement. <i>Environmental Science and Policy</i> , 2009, 12, 855-869.	4.9	25
68	Tracking uncertainties in the causal chain from human activities to climate. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	25
69	Does black carbon abatement hamper CO ₂ abatement?. <i>Climatic Change</i> , 2010, 103, 627-633.	3.6	25
70	Regional temperature change potentials for short-lived climate forcers based on radiative forcing from multiple models. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10795-10809.	4.9	24
71	Attribution: How Is It Relevant for Loss and Damage Policy and Practice?. <i>Climate Risk Management, Policy and Governance</i> , 2019, , 113-154.	2.5	24
72	Costs Savings of a Flexible Multi-Gas Climate Policy. <i>Energy Journal</i> , 2006, 27, 485-502.	1.7	24

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73	Testing 100-Year Global Warming Potentials: Impacts on Compliance Costs and Abatement Profile. <i>Climatic Change</i> , 2002, 52, 93-127.	3.6	23
74	Mitigation of short-lived heating components may lead to unwanted long-term consequences. <i>Atmospheric Environment</i> , 2011, 45, 6103-6106.	4.1	22
75	Climate Impacts of Short-Lived Climate Forcers versus CO ₂ from Biodiesel: A Case of the EU on-Road Sector. <i>Environmental Science & Technology</i> , 2014, 48, 14445-14454.	10.0	21
76	Metrics for linking emissions of gases and aerosols to global precipitation changes. <i>Earth System Dynamics</i> , 2015, 6, 525-540.	7.1	21
77	Fair shares?. <i>Nature Climate Change</i> , 2016, 6, 19-20.	18.8	13
78	The adequacy of GWPs as indicators of damage costs incurred by global warming. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2002, 7, 45-62.	2.1	12
79	Introducing population-adjusted historical contributions to global warming. <i>Global Environmental Change</i> , 2008, 18, 142-152.	7.8	12
80	Intercomparison of the capabilities of simplified climate models to project the effects of aviation CO ₂ on climate. <i>Atmospheric Environment</i> , 2013, 75, 321-328.	4.1	12
81	Emissions and emergence: a new index comparing relative contributions to climate change with relative climatic consequences. <i>Environmental Research Letters</i> , 2019, 14, 084009.	5.2	12
82	Chemical–dynamical Modelling of the Atmosphere with Emphasis on the Methane Oxidation. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992, 96, 241-251.	0.9	8
83	Reply to "Interpretations of the Paris climate target". <i>Nature Geoscience</i> , 2018, 11, 222-222.	12.9	8
84	Chemical and radiological risk factors associated with waste from energy production. <i>Science of the Total Environment</i> , 1992, 114, 87-97.	8.0	6
85	A future perspective of historical contributions to climate change. <i>Climatic Change</i> , 2021, 164, 1.	3.6	6
86	Counteracting the climate effects of volcanic eruptions using short-lived greenhouse gases. <i>Geophysical Research Letters</i> , 2014, 41, 8627-8635.	4.0	5
87	Quality of geological CO ₂ storage to avoid jeopardizing climate targets. <i>Climatic Change</i> , 2012, 114, 245-260.	3.6	4
88	Earlier emergence of a temperature response to mitigation by filtering annual variability. <i>Nature Communications</i> , 2022, 13, 1578.	12.8	4
89	Introducing top-down methods in assessing compliance with the Kyoto Protocol. <i>Climate Policy</i> , 2005, 5, 393-405.	5.1	2
90	Times Matter!" Response to Wallington et al.. <i>Environmental Science & Technology</i> , 2011, 45, 3167-3168.	10.0	1

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91	Reply to: Uncertainty in near-term temperature evolution must not obscure assessments of climate mitigation benefits. Nature Communications, 2022, 13, .	12.8	0