

Daniele Visionsi

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,264
citations

279701

23
h-index

395590

33
g-index

105
all docs

105
docs citations

105
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8409-8438.	1.9	128
2	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. <i>Nature Communications</i> , 2018, 9, 206.	5.8	69
3	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI-1 simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1091-1114.	1.9	56
4	Revisiting the Mystery of Recent Stratospheric Temperature Trends. <i>Geophysical Research Letters</i> , 2018, 45, 9919-9933.	1.5	51
5	Potential ecological impacts of climate intervention by reflecting sunlight to cool Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	46
6	Identifying the sources of uncertainty in climate model simulations of solar radiation modification with the G6sulfur and G6solar Geoengineering Model Intercomparison Project (GeoMIP) simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10039-10063.	1.9	45
7	Sulfate geoengineering: a review of the factors controlling the needed injection of sulfur dioxide. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3879-3889.	1.9	44
8	Stratospheric Sulfate Aerosol Geoengineering Could Alter the High-Latitude Seasonal Cycle. <i>Geophysical Research Letters</i> , 2019, 46, 14153-14163.	1.5	40
9	Stratospheric Aerosols from Major Volcanic Eruptions: A Composition-Climate Model Study of the Aerosol Cloud Dispersal and e-folding Time. <i>Atmosphere</i> , 2016, 7, 75.	1.0	36
10	Stratospheric Injection of Brominated Very Short-Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5690-5719.	1.2	36
11	Sulfur deposition changes under sulfate geoengineering conditions: quasi-biennial oscillation effects on the transport and lifetime of stratospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2787-2808.	1.9	33
12	Is Turning Down the Sun a Good Proxy for Stratospheric Sulfate Geoengineering?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033952.	1.2	33
13	Large-scale tropospheric transport in the Chemistry-Climate Model Initiative (CCMI) simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7217-7235.	1.9	32
14	Quantifying the effect of mixing on the mean age of air in CCMVal-2 and CCMI-1 models. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6699-6720.	1.9	32
15	Reduced Poleward Transport Due to Stratospheric Heating Under Stratospheric Aerosols Geoengineering. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089470.	1.5	32
16	Seasonal Injection Strategies for Stratospheric Aerosol Geoengineering. <i>Geophysical Research Letters</i> , 2019, 46, 7790-7799.	1.5	29
17	The influence of mixing on the stratospheric age of air changes in the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 921-940.	1.9	29
18	Sulfate geoengineering impact on methane transport and lifetime: results from the Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11209-11226.	1.9	28

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19	Tropospheric ozone in CCMI models and Gaussian process emulation to understand biases in the SOCOLv3 chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16155-16172.	1.9	27
20	The effect of atmospheric nudging on the stratospheric residual circulation in chemistry-climate models. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11559-11586.	1.9	27
21	Seasonally Modulated Stratospheric Aerosol Geoengineering Alters the Climate Outcomes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088337.	1.5	27
22	Deriving Global OH Abundance and Atmospheric Lifetimes for Long-Lived Gases: A Search for CH ₃ CCl ₃ Alternatives. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,914.	1.2	26
23	High-Latitude Stratospheric Aerosol Geoengineering Can Be More Effective if Injection Is Limited to Spring. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092696.	1.5	26
24	Upper tropospheric ice sensitivity to sulfate geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14867-14887.	1.9	25
25	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10087-10110.	1.9	22
26	Comparing different generations of idealized solar geoengineering simulations in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4231-4247.	1.9	22
27	Expanding the design space of stratospheric aerosol geoengineering to include precipitation-based objectives and explore trade-offs. <i>Earth System Dynamics</i> , 2020, 11, 1051-1072.	2.7	22
28	Impact of Stratospheric Volcanic Aerosols on Age-of-Air and Transport of Long-Lived Species. <i>Atmosphere</i> , 2016, 7, 149.	1.0	20
29	Stratospheric ozone response to sulfate aerosol and solar dimming climate interventions based on the G6 Geoengineering Model Intercomparison Project (GeoMIP) simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4557-4579.	1.9	19
30	From moral hazard to risk-response feedback. <i>Climate Risk Management</i> , 2021, 33, 100324.	1.5	18
31	Sulfate Aerosols from Non-Explosive Volcanoes: Chemical-Radiative Effects in the Troposphere and Lower Stratosphere. <i>Atmosphere</i> , 2016, 7, 85.	1.0	17
32	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. <i>Environmental Research Letters</i> , 2020, 15, 094063.	2.2	15
33	The impact of stratospheric aerosol intervention on the North Atlantic and Quasi-Biennial Oscillations in the Geoengineering Model Intercomparison Project (GeoMIP) G6sulfur experiment. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2999-3016.	1.9	15
34	Differences in the quasi-biennial oscillation response to stratospheric aerosol modification depending on injection strategy and species. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8615-8635.	1.9	14
35	Changes in Hadley circulation and intertropical convergence zone under strategic stratospheric aerosol geoengineering. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	14
36	Sensitivity of Total Column Ozone to Stratospheric Sulfur Injection Strategies. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094058.	1.5	13

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37	An interactive stratospheric aerosol model intercomparison of solar geoengineering by stratospheric injection of SO ₂ or accumulation-mode sulfuric acid aerosols. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2955-2973.	1.9	13
38	Dependency of the impacts of geoengineering on the stratospheric sulfur injection strategy – Part 1: Intercomparison of modal and sectional aerosol modules. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 93-118.	1.9	12
39	How large is the design space for stratospheric aerosol geoengineering?. <i>Earth System Dynamics</i> , 2022, 13, 201-217.	2.7	10
40	Limitations of assuming internal mixing between different aerosol species: a case study with sulfate geoengineering simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1739-1756.	1.9	6
41	Ultraviolet Radiation modelling using output from the Chemistry Climate Model Initiative. , 2019, 19, 10087-10110.		5
42	An approach to sulfate geoengineering with surface emissions of carbonyl sulfide. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5757-5773.	1.9	4
43	The Overlooked Role of the Stratosphere Under a Solar Constant Reduction. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
44	Detection of pre-industrial societies on exoplanets. <i>International Journal of Astrobiology</i> , 2021, 20, 73-80.	0.9	2
45	Future Geoengineering Scenarios: Balancing Policy Relevance and Scientific Significance. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E817-E820.	1.7	2
46	Detection of pre-industrial societies on exoplanets – ERRATUM. <i>International Journal of Astrobiology</i> , 2021, 20, 445-445.	0.9	0