

Parvatha Suntharalingam

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,418
citations

361045

20
h-index

525886

27
g-index

35
all docs

35
docs citations

35
times ranked

3180
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020, 586, 248-256.	13.7	814
2	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	322
3	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 289-305.	1.9	146
4	Improved quantification of Chinese carbon fluxes using CO ₂ /CO correlations in Asian outflow. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	131
5	Modeling global atmospheric CO ₂ with improved emission inventories and CO ₂ production from the oxidation of other carbon species. <i>Geoscientific Model Development</i> , 2010, 3, 689-716.	1.3	117
6	Factors governing the oceanic nitrous oxide distribution: Simulations with an ocean general circulation model. <i>Global Biogeochemical Cycles</i> , 2000, 14, 429-454.	1.9	104
7	Inverse modeling of CO ₂ sources and sinks using satellite observations of CO ₂ from TES and surface flask measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6029-6047.	1.9	94
8	Global significance of nitrous-oxide production and transport from oceanic low-oxygen zones: A modeling study. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1353-1370.	1.9	77
9	Using CO ₂ :CO correlations to improve inverse analyses of carbon fluxes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	67
10	Global 3D model analysis of the seasonal cycle of atmospheric carbonyl sulfide: Implications for terrestrial vegetation uptake. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	66
11	Global Nitrous Oxide Production Determined by Oxygen Sensitivity of Nitrification and Denitrification. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1790-1802.	1.9	63
12	Global distributions of carbonyl sulfide in the upper troposphere and stratosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	59
13	Quantifying the impact of anthropogenic nitrogen deposition on oceanic nitrous oxide. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	57
14	Constraints on Asian and European sources of methane from CH ₄ -C ₂ H ₆ -CO correlations in Asian outflow. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	40
15	Constraints on global oceanic emissions of N ₂ O from observations and models. <i>Biogeosciences</i> , 2018, 15, 2161-2175.	1.3	38
16	Influence of reduced carbon emissions and oxidation on the distribution of atmospheric CO ₂ : Implications for inversion analyses. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	35
17	The impacts of ocean acidification on marine trace gases and the implications for atmospheric chemistry and climate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190769.	1.0	31
18	A Surface Ocean CO ₂ Reference Network, SOCONET and Associated Marine Boundary Layer CO ₂ Measurements. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	26

#	ARTICLE	IF	CITATIONS
19	Evaluation of ocean dimethylsulfide concentration and emission in CMIP6 models. <i>Biogeosciences</i> , 2021, 18, 3823-3860.	1.3	24
20	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO ₂ seasonal cycle amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
21	Towards understanding the variability in biospheric CO ₂ fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2123-2138.	1.9	20
22	Biogeochemical modelling of dissolved oxygen in a changing ocean. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160328.	1.6	20
23	Estimating the distribution of terrestrial CO ₂ sources and sinks from atmospheric measurements: Sensitivity to configuration of the observation network. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	18
24	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020, 17, 5809-5828.	1.3	16
25	Anthropogenic nitrogen inputs and impacts on oceanic N ₂ O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 104-113.	0.6	9
26	Evaluating Oceanic Uptake of Atmospheric CCl ₄ : A Combined Analysis of Model Simulations and Observations. <i>Geophysical Research Letters</i> , 2019, 46, 472-482.	1.5	1
27	Variability of North Atlantic CO ₂ fluxes for the 2000–2017 period estimated from atmospheric inverse analyses. <i>Biogeosciences</i> , 2021, 18, 4549-4570.	1.3	1