Atul K Jain

List of Publications by Year
in descending order

183 papers	27,046 citations	14509 65 h-index	6215 156 g-index
267 all docs	267 docs citations	267 times ranked	30485 citing authors

#	Article	IF	Citations
1	Advanced Technology Paths to Global Climate Stability: Energy for a Greenhouse Planet. Science, 2002, 298, 981-987.	19.8	1,227
2	Increased atmospheric vapor pressure deficit reduces global vegetation growth. Science Advances, 2019, 5, eaax1396.	10.8	879
3	Global change pressures on soils from land use and management. Global Change Biology, 2016, 22, 1008-1028.	9.6	660
4	Global patterns of drought recovery. Nature, 2017, 548, 202-205.	35.8	614
5	Energy implications of future stabilization of atmospheric CO2 content. Nature, 1998, 395, 881-884.	35.8	571
6	The global carbon budget 1959â€“2011. Earth System Science Data, 2013, 5, 165-185.	8.8	538
7	Compensatory water effects link yearly global land CO2 sink changes to temperature. Nature, 2017, 541, 516-520.	35.8	517
8	Global greenhouse gas emissions from animal-based foods are twice those of plant-based foods. Nature Food, 2021, 2, 724-732.	10.0	394
9	Evaluation of 11 terrestrial carbonâ€“nitrogen cycle models against observations from two temperate <scp>F</scp>reeâ€<scp>A</scp>ir <scp>CO</scp>₂<scp> E</scp>nrichment studies. New Phytologist, 2014, 202, 803-822.	7.8	391
10	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	19.8	382
11	Scaling carbon fluxes from eddy covariance sites to globe: synthesis and evaluation of the FLUXCOM approach. Biogeosciences, 2020, 17, 1343-1365.	3.4	358
12	Climate impacts on global agriculture emerge earlier in new generation of climate and crop models. Nature Food, 2021, 2, 873-885.	10.0	340
13	Forest water use and water use efficiency at elevated <scp><scp>CO₂</scp></scp>: a modelâ€data intercomparison at two contrasting temperate forest <scp>FACE</scp> sites. Global Change Biology, 2013, 19, 1759-1779.	9.6	323
14	A modelâ€data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. Journal of Geophysical Research, 2012, 117, .	3.2	278
15	Where does the carbon go? A modelâ€“data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest freeâ€air CO₂ enrichment sites. New Phytologist, 2014, 203, 883-899.	7.8	271
16	Widespread seasonal compensation effects of spring warming on northern plant productivity. Nature, 2018, 562, 110-114.	35.8	261
17	Using ecosystem experiments to improve vegetation models. Nature Climate Change, 2015, 5, 528-534.	14.2	256
18	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. Science Advances, 2020, 6, eaba2724.	10.8	256

#	ARTICLE	IF	CITATIONS
19	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. Global Biogeochemical Cycles, 2015, 29, 775-792.	4.7	255
20	Concerns about climate change and the role of fossil fuel use. Fuel Processing Technology, 2001, 71, 99-119.	7.2	236
21	Development of Decadal (1985â€“1995â€“2005) Land Use and Land Cover Database for India. Remote Sensing, 2015, 7, 2401-2430.	4.1	216
22	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. Nature Communications, 2018, 9, 2938.	13.0	214
23	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. Ecological Modelling, 2012, 232, 144-157.	2.5	210
24	Impact of largeâ€scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. Global Biogeochemical Cycles, 2014, 28, 585-600.	4.7	200
25	The distribution of soil phosphorus for global biogeochemical modeling. Biogeosciences, 2013, 10, 2525-2537.	3.4	190
26	Hotspots of uncertainty in landâ€use and landâ€cover change projections: a globalâ€scale model comparison. Global Change Biology, 2016, 22, 3967-3983.	9.6	186
27	Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. Scientific Reports, 2017, 7, 4765.	3.4	167
28	Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. Hydrology and Earth System Sciences, 2020, 24, 1485-1509.	4.9	156
29	<scp><scp>CO₂</scp></scp> emissions from landâ€use change affected more by nitrogen cycle, than by the choice of landâ€cover data. Global Change Biology, 2013, 19, 2893-2906.	9.6	133
30	Nitrogen attenuation of terrestrial carbon cycle response to global environmental factors. Global Biogeochemical Cycles, 2009, 23, .	4.7	132
31	An integrated biogeochemical and economic analysis of bioenergy crops in the Midwestern United States. GCB Bioenergy, 2010, 2, 217-234.	5.6	127
32	Radiative forcings and global warming potentials of 39 greenhouse gases. Journal of Geophysical Research, 2000, 105, 20773-20790.	3.2	125
33	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. Environmental Research Letters, 2015, 10, 094008.	5.2	124
34	Three distinct global estimates of historical land-cover change and land-use conversions for over 200 years. Frontiers of Earth Science, 2012, 6, 122-139.	2.1	120
35	Modeling the effects of two different land cover change data sets on the carbon stocks of plants and soils in concert with CO2and climate change. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.7	115
36	Assessing uncertainties in land cover projections. Global Change Biology, 2017, 23, 767-781.	9.6	113

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37	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	107
38	Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks. Nature Climate Change, 2018, 8, 914-920.	14.2	105
39	Spatial modeling of agricultural land use change at global scale. Ecological Modelling, 2014, 291, 152-174.	2.5	103
40	Forest expansion dominates Chinaâ€™s land carbon sink since 1980. Nature Communications, 2022, 13, .	13.0	102
41	Substitution of Natural Gas for Coal: Climatic Effects of Utility Sector Emissions. Climatic Change, 2002, 54, 107-139.	3.7	100
42	Comprehensive ecosystem modelâ€data synthesis using multiple data sets at two temperate forest freeâ€air CO₂ enrichment experiments: Model performance at ambient CO₂ concentration. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 937-964.	3.0	100
43	Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288.	3.4	96
44	A welfare-based index for assessing environmental effects of greenhouse-gas emissions. Nature, 1996, 381, 301-303.	35.8	95
45	Integration of nitrogen cycle dynamics into the Integrated Science Assessment Model for the study of terrestrial ecosystem responses to global change. Global Biogeochemical Cycles, 2009, 23, .	4.7	92
46	Effects of carbon dioxide and climate change on ocean acidification and carbonate mineral saturation. Geophysical Research Letters, 2007, 34, .	3.9	91
47	Carbon Management Response Curves: Estimates of Temporal Soil Carbon Dynamics. Environmental Management, 2004, 33, 507-18.	2.7	85
48	Lifetimes and global warming potentials for dimethyl ether and for fluorinated ethers: CH3OCF3(E143a), CHF2OCHF2(E134), CHF2OCF3(E125). Journal of Geophysical Research, 1998, 103, 28181-28186.	3.2	80
49	Climateâ€driven uncertainties in modeling terrestrial gross primary production: a site level to globalâ€scale analysis. Global Change Biology, 2014, 20, 1394-1411.	9.6	74
50	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190507.	4.1	73
51	Decadal biomass increment in early secondary succession woody ecosystems is increased by CO2 enrichment. Nature Communications, 2019, 10, 454.	13.0	72
52	Impact of the 2015/2016 El NiÃ±o on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170304.	4.1	71
53	Consistent sets of atmospheric lifetimes and radiative forcings on climate for CFC replacements: HCFCs and HFCs. Journal of Geophysical Research, 2000, 105, 6903-6914.	3.2	68
54	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. Global Biogeochemical Cycles, 2017, 31, 1639-1655.	4.7	67

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55	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. Earth System Science Data, 2022, 14, 1639-1675.	8.8	67
56	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. Nature Geoscience, 2019, 12, 809-814.	11.7	66
57	Sources of Uncertainty in Regional and Global Terrestrial CO₂ Exchange Estimates. Global Biogeochemical Cycles, 2020, 34, e2019GB006393.	4.7	64
58	Global change: state of the science. Environmental Pollution, 1999, 100, 57-86.	7.6	63
59	Greening drylands despite warming consistent with carbon dioxide fertilization effect. Global Change Biology, 2021, 27, 3336-3349.	9.6	62
60	Precipitation and carbon-water coupling jointly control the interannual variability of global land gross primary production. Scientific Reports, 2016, 6, 39748.	3.4	61
61	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO₂. Biogeosciences, 2021, 18, 4985-5010.	3.4	60
62	Distribution of radiocarbon as a test of global carbon cycle models. Global Biogeochemical Cycles, 1995, 9, 153-166.	4.7	59
63	Overview of the Large-Scale Biosphereâ€"Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	4.8	55
64	CLIMATE CHANGE POLICY:Costs of Multigreenhouse Gas Reduction Targets for the USA. Science, 1999, 286, 905-906.	19.8	54
65	Estimates of global biomass burning emissions for reactive greenhouse gases (CO, NMHCs, and NOx) and CO2. Journal of Geophysical Research, 2006, 111, .	3.2	54
66	Dynamics and determinants of land change in India: integrating satellite data with village socioeconomics. Regional Environmental Change, 2017, 17, 753-766.	2.9	51
67	Carbon dynamics in the Amazonian Basin: Integration of eddy covariance and ecophysiological data with a land surface model. Agricultural and Forest Meteorology, 2013, 182-183, 156-167.	4.8	48
68	Implementation of dynamic crop growth processes into a land surface model: evaluation of energy, water and carbon fluxes under corn and soybean rotation. Biogeosciences, 2013, 10, 8039-8066.	3.4	48
69	Toward â€œoptimalâ€•integration of terrestrial biosphere models. Geophysical Research Letters, 2015, 42, 4418-4428.	3.9	48
70	Accounting for the missing carbon-sink with the CO2-fertilization effect. Climatic Change, 1996, 33, 31-62.	3.7	47
71	Negative extreme events in gross primary productivity and their drivers in China during the past three decades. Agricultural and Forest Meteorology, 2019, 275, 47-58.	4.8	47
72	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). Geoscientific Model Development, 2022, 15, 1289-1316.	3.7	46

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73	State of the science in reconciling topâ€down and bottomâ€up approaches for terrestrial CO₂ budget. Global Change Biology, 2020, 26, 1068-1084.	9.6	45
74	Dynamics and drivers of land use and land cover changes in Bangladesh. Regional Environmental Change, 2020, 20, 1.	2.9	45
75	Increased lightâ€use efficiency in northern terrestrial ecosystems indicated by CO₂ and greening observations. Geophysical Research Letters, 2016, 43, 11,339.	3.9	44
76	Challenging terrestrial biosphere models with data from the longâ€term multifactor Prairie Heating and <scp>CO</scp>₂ Enrichment experiment. Global Change Biology, 2017, 23, 3623-3645.	9.6	44
77	Increased influence of nitrogen limitation on CO₂ emissions from future land use and land use change. Global Biogeochemical Cycles, 2015, 29, 1524-1548.	4.7	43
78	Response of global land evapotranspiration to climate change, elevated CO2, and land use change. Agricultural and Forest Meteorology, 2021, 311, 108663.	4.8	43
79	Global estimation of CO emissions using three sets of satellite data for burned area. Atmospheric Environment, 2007, 41, 6931-6940.	4.2	42
80	Contributions of secondary forest and nitrogen dynamics to terrestrial carbon uptake. Biogeosciences, 2010, 7, 3041-3050.	3.4	41
81	Carbon and Water Use Efficiencies: A Comparative Analysis of Ten Terrestrial Ecosystem Models under Changing Climate. Scientific Reports, 2019, 9, 14680.	3.4	41
82	Global land carbon sink response to temperature and precipitation varies with ENSO phase. Environmental Research Letters, 2017, 12, 064007.	5.2	40
83	The terrestrial carbon budget of South and Southeast Asia. Environmental Research Letters, 2016, 11, 105006.	5.2	39
84	Largeâ€Scale Droughts Responsible for Dramatic Reductions of Terrestrial Net Carbon Uptake Over North America in 2011 and 2012. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2053-2071.	3.0	39
85	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. Global Biogeochemical Cycles, 2019, 33, 668-689.	4.7	39
86	Climateâ€Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. Global Biogeochemical Cycles, 2020, 34, e2020GB006613.	4.7	39
87	Are Terrestrial Biosphere Models Fit for Simulating the Global Land Carbon Sink?. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.7	39
88	Diagnosing destabilization risk in global land carbon sinks. Nature, 2023, 615, 848-853.	35.8	39
89	Projecting future climate change: Implications of carbon cycle model intercomparisons. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.7	38
90	Uncertainty analysis of terrestrial net primary productivity and net biome productivity in China during 1901â€“2005. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1372-1393.	3.0	37

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91	Comment on â€œModernâ€age buildup of CO₂ and its effects on seawater acidity and salinityâ€• by Hugo A. LoÃ¡iciga. Geophysical Research Letters, 2007, 34, .	3.9	36
92	Quantifying the biophysical and socioeconomic drivers of changes in forest and agricultural land in South and Southeast Asia. Global Change Biology, 2019, 25, 2137-2151.	9.6	36
93	Evaluation of ozone depletion potentials for chlorobromomethane (CH2ClBr) and 1-bromo-propane (CH2BrCH2CH3). Atmospheric Environment, 1998, 32, 107-113.	4.2	35
94	Sensitivity of direct global warming potentials to key uncertainties. Climatic Change, 1995, 29, 265-297.	3.7	34
95	Estimates of Biomass Yield for Perennial Bioenergy Grasses in the USA. Bioenergy Research, 2015, 8, 688-715.	3.8	33
96	Comparison of effects of coldâ€region soil/snow processes and the uncertainties from model forcing data on permafrost physical characteristics. Journal of Advances in Modeling Earth Systems, 2016, 8, 453-466.	3.7	33
97	Contrasting effects of CO₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO₂ exchange. Atmospheric Chemistry and Physics, 2019, 19, 12361-12375.	4.9	33
98	Decadal trends in the seasonal-cycle amplitude of terrestrial CO₂ exchange resulting from the ensemble of terrestrial biosphere models. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 28968.	1.6	32
99	Modeling of global biogenic emissions for key indirect greenhouse gases and their response to atmospheric CO2increases and changes in land cover and climate. Journal of Geophysical Research, 2005, 110, .	3.2	31
100	Climate-driven uncertainties in modeling terrestrial energy and water fluxes: a site-level to global-scale analysis. Global Change Biology, 2014, 20, 1885-1900.	9.6	31
101	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. Agricultural and Forest Meteorology, 2013, 182-183, 145-155.	4.8	30
102	Land use change and El NiÃ±o-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. Nature Communications, 2018, 9, 1154.	13.0	30
103	Role of CO₂, climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. Biogeosciences, 2016, 13, 5121-5137.	3.4	27
104	Can we reconcile differences in estimates of carbon fluxes from land-use change and forestry for the 1990s?. Atmospheric Chemistry and Physics, 2008, 8, 3291-3310.	4.9	26
105	Managing Multiple Mandates: A System of Systems Model to Analyze Strategies for Producing Cellulosic Ethanol and Reducing Riverine Nitrate Loads in the Upper Mississippi River Basin. Environmental Science & Technology, 2015, 49, 11932-11940.	10.3	26
106	Tracking uncertainties in the causal chain from human activities to climate. Geophysical Research Letters, 2009, 36, .	3.9	25
107	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238.	3.4	25
108	Carbon and energy fluxes in cropland ecosystems: a model-data comparison. Biogeochemistry, 2016, 129, 53-76.	3.6	25

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109	Global warming potential assessment for CF3OCF = CF2. Journal of Geophysical Research, 2000, 105, 4019-4029.	3.2	24
110	System of Systems Model for Analysis of Biofuel Development. Journal of Infrastructure Systems, 2015, 21, .	1.9	24
111	Future atmospheric methane concentrations in the context of the stabilization of greenhouse gas concentrations. Journal of Geophysical Research, 1999, 104, 19183-19190.	3.2	23
112	A globally aggregated reconstruction of cycles of carbon and its isotopes. Tellus, Series B: Chemical and Physical Meteorology, 2022, 48, 583.	1.6	22
113	Model-based estimation of the global carbon budget and its uncertainty from carbon dioxide and carbon isotope records. Journal of Geophysical Research, 1999, 104, 31127-31143.	3.2	22
114	The effect of Indian summer monsoon on the seasonal variation of carbon sequestration by a forest ecosystem over North-East India. SN Applied Sciences, 2020, 2, 1.	2.9	22
115	Assessing the representation of the Australian carbon cycle in global vegetation models. Biogeosciences, 2021, 18, 5639-5668.	3.4	21
116	Process-oriented analysis of dominant sources of uncertainty in the land carbon sink. Nature Communications, 2022, 13, .	13.0	21
117	Evaluation of simulated soil carbon dynamics in Arctic-Boreal ecosystems. Environmental Research Letters, 2020, 15, 025005.	5.2	19
118	Implementation of a dynamic rooting depth and phenology into a land surface model: Evaluation of carbon, water, and energy fluxes in the high latitude ecosystems. Agricultural and Forest Meteorology, 2015, 211-212, 85-99.	4.8	18
119	The Interplay Between Bioenergy Grass Production and Water Resources in the United States of America. Environmental Science & Technology, 2016, 50, 3010-3019.	10.3	18
120	Causes of slowingâ€down seasonal CO₂ amplitude at Mauna Loa. Global Change Biology, 2020, 26, 4462-4477.	9.6	18
121	Estimating Trends and Variation of Net Biome Productivity in India for 1980â€“2012 Using a Land Surface Model. Geophysical Research Letters, 2017, 44, 11,573.	3.9	17
122	Contrasting interannual atmospheric CO₂ variabilities and their terrestrial mechanisms for two types of El NiÃ±os. Atmospheric Chemistry and Physics, 2018, 18, 10333-10345.	4.9	17
123	Impacts of land use change and elevated CO₂ on the interannual variations and seasonal cycles of gross primary productivity in China. Earth System Dynamics, 2020, 11, 235-249.	7.0	17
124	Response to Comments on â€œRecent global decline of CO ₂ fertilization effects on vegetation photosynthesisâ€. Science, 2021, 373, eabg7484.	19.8	17
125	Divergent historical GPP trends among state-of-the-art multi-model simulations and satellite-based products. Earth System Dynamics, 2022, 13, 833-849.	7.0	17
126	Crop models capture the impacts of climate variability on corn yield. Geophysical Research Letters, 2015, 42, 3356-3363.	3.9	16

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127	Global vegetation biomass production efficiency constrained by models and observations. Global Change Biology, 2020, 26, 1474-1484.	9.6	16
128	Estimation of Permafrost SOC Stock and Turnover Time Using a Land Surface Model With Vertical Heterogeneity of Permafrost Soils. Global Biogeochemical Cycles, 2020, 34, e2020GB006585.	4.7	16
129	Is there an imbalance in the global budget of bomb-produced radiocarbon?. Journal of Geophysical Research, 1997, 102, 1327-1333.	3.2	15
130	Title is missing!. Climatic Change, 1999, 42, 439-474.	3.7	15
131	Assessing the effectiveness of direct injection for ocean carbon sequestration under the influence of climate change. Geophysical Research Letters, 2005, 32, .	3.9	14
132	Influence of climate variability, fire and phosphorus limitation on vegetation structure and dynamics of the Amazonâ€"Cerrado border. Biogeosciences, 2018, 15, 919-936.	3.4	14
133	Peak growing season patterns and climate extremes-driven responses of gross primary production estimated by satellite and process based models over North America. Agricultural and Forest Meteorology, 2021, 298-299, 108292.	4.8	14
134	An Earth system model of intermediate complexity: Simulation of the role of ocean mixing parameterizations and climate change in estimated uptake for natural and bomb radiocarbon and anthropogenic CO2. Journal of Geophysical Research, 2005, 110, .	3.2	13
135	Using a team survey to improve team communication for enhanced delivery of agro-climate decision support tools. Agricultural Systems, 2015, 138, 31-37.	6.1	12
136	Linking global terrestrial CO₂ fluxes and environmental drivers: inferences from the Orbiting Carbon ObservatoryÂ2 satellite and terrestrial biospheric models. Atmospheric Chemistry and Physics, 2021, 21, 6663-6680.	4.9	12
137	Assessing the impact of changes in climate and CO2on potential carbon sequestration in agricultural soils. Geophysical Research Letters, 2005, 32, n/a-n/a.	3.9	11
138	Investigating Wetland and Nonwetland Soil Methane Emissions and Sinks Across the Contiguous United States Using a Land Surface Model. Global Biogeochemical Cycles, 2020, 34, e2019GB006251.	4.7	11
139	Five years of variability in the global carbon cycle: comparing an estimate from the Orbiting Carbon Observatory-2 and process-based models. Environmental Research Letters, 2021, 16, 054041.	5.2	10
140	Impact of environmental changes and land management practices on wheat production in India. Earth System Dynamics, 2020, 11, 641-652.	7.0	10
141	Contribution of environmental forcings to US runoff changes for the period 1950â€"2010. Environmental Research Letters, 2018, 13, 054023.	5.2	9
142	Worldwide Maize and Soybean Yield Response to Environmental and Management Factors Over the 20th and 21st Centuries. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006304.	3.0	9
143	Greenhouse gas emissions from nitrogen fertilizers. Nature Food, 2023, 4, 139-140.	10.0	9
144	Evaluation of the atmospheric lifetime and radiative forcing on climate for 1,2,2,2-tetrafluoroethyl trifluoromethyl ether (CF3OCHFCF3). Journal of Geophysical Research, 2001, 106, 12615-12618.	3.2	8

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145	Are Landâ€Use Change Emissions in Southeast Asia Decreasing or Increasing?. Global Biogeochemical Cycles, 2022, 36, .	4.7	8
146	Soil respirationâ€“driven CO ₂ pulses dominate Australiaâ€™s flux variability. Science, 2023, 379, 1332-1335.	19.8	8
147	Possible climatic implications of depletion of Antarctic ozone. Tellus, Series B: Chemical and Physical Meteorology, 1987, 39B, 326-328.	1.6	7
148	The effectiveness of measures to reduce the man-made greenhouse effect. The application of a Climate-policy Model. Theoretical and Applied Climatology, 1994, 49, 103-118.	2.8	7
149	Differing methods of accounting ocean carbon sequestration efficiency. Journal of Geophysical Research, 2004, 109, .	3.2	7
150	Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO₂ measurements from 1999 to 2017. Global Change Biology, 2020, 26, 3368-3383.	9.6	7
151	Assessing Model Predictions of Carbon Dynamics in Global Drylands. Frontiers in Environmental Science, 2022, 10, .	3.3	7
152	A Processâ€Model Perspective on Recent Changes in the Carbon Cycle of North America. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	7
153	Evaluating nitrogen cycling in terrestrial biosphere models: a disconnect between the carbon and nitrogen cycles. Earth System Dynamics, 2023, 14, 767-795.	7.0	7
154	Potential climatic consequences of increasing anthropogenic constituents in the atmosphere. Atmospheric Environment, 1986, 20, 639-642.	1.1	6
155	The CFC greenhouse potential of scenarios possible under the montreal protocol. International Journal of Climatology, 1990, 10, 439-450.	3.4	6
156	Contribution of CH4 to Multi-Gas Emission Reduction Targets. , 2000, , 425-432.		5
157	Learning about the ocean carbon cycle from observational constraints and model simulations of multiple tracers. Climatic Change, 2008, 89, 45-66.	3.7	4
158	Reduction of the atmospheric concentration of methane as a strategic response option to global climate change. , 1999, , 775-780.		3
159	Synthesis of the land carbon fluxes of the Amazon region between 2010 and 2020. Communications Earth & Environment, 2024, 5, .	6.7	3
160	Global Air Pollution Problems. , 2003, , 337-375.		2
161	Scaling the ISAM Land Surface Model through Parallelization of Inter-component Data Transfer. , 2014, , .		2
162	Review of Ecosystem Monitoring in Nepal and Evolving Earth Observation Technologies. Springer Geography, 2017, , 165-183.	0.0	2

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163	Possible climatic implications of depletion of Antarctic ozone. Tellus, Series B: Chemical and Physical Meteorology, 1987, 39, 326-328.	1.6	2
164	Enhanced Indiaâ€Africa Carbon Uptake and Asiaâ€Pacific Carbon Release Associated With the 2019 Extreme Positive Indian Ocean Dipole. Geophysical Research Letters, 2022, 49, .	3.9	2
165	Uncertainty in land-use adaptation persists despite crop model projections showing lower impacts under high warming. Communications Earth & Environment, 2023, 4, .	6.7	2
166	Earlier spring greening in Northern Hemisphere terrestrial biomes enhanced net ecosystem productivity in summer. Communications Earth & Environment, 2024, 5, .	6.7	2
167	On the meridional distribution of climate changes due to doubling of CO2 content in the atmosphere. Theoretical and Applied Climatology, 1986, 37, 15-21.	2.8	1
168	Climatic effect of observed changes in atmospheric trace gases at Antarctica. Atmospheric Environment, 1988, 22, 2047-2048.	1.1	1
169	Concerns about Climate Change and Global Warming. , 0, , 1-26.		1
170	Carbon Emissions from Land-Use Change: Model Estimates Using Three Different Data Sets. , 0, , 241-258.		1
171	Disentangling land model uncertainty via Matrix-based Ensemble Model Inter-comparison Platform (MEMIP). Ecological Processes, 2022, 11, .	3.9	1
172	Hydroclimatic extremes contribute to asymmetric trends in ecosystem productivity loss. Communications Earth & Environment, 2023, 4, .	6.7	1
173	Costing the Earth. Nature, 1996, 383, 571-571.	35.8	0
174	The potential response of historical terrestrial carbon storage to changes in land use, atmospheric CO2, and climate. , 0, , 62-71.		0
175	Community-Scale Response To Climate Change Impacts On Rural Agricultural Economies. , 2021, , .		0
176	Assessment of Climate Change Impact on Rice Production Over South and Southeast Asia Under CMIP6 Climate Scenarios. , 2022, , 367-379.		0
177	RECCAP2 Future Component: Consistency and Potential for Regional Assessment to Constrain Global Projections. AGU Advances, 2023, 4, .	6.1	0
178	Global nitrous oxide budget (1980â€“2020). Earth System Science Data, 2024, 16, 2543-2604.	8.8	0
179	Trends and Drivers of Terrestrial Sources and Sinks of Carbon Dioxide: An Overview of the TRENDY Project. Global Biogeochemical Cycles, 2024, 38, .	4.7	0
180	Global net climate effects of anthropogenic reactive nitrogen. Nature, 0, , .	35.8	0

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181	The Modeled Seasonal Cycles of Surface N₂O Fluxes and Atmospheric N₂O. Global Biogeochemical Cycles, 2024, 38, .	4.7	0
182	Enhanced nitrous oxide emission factors due to climate change increase the mitigation challenge in the agricultural sector. Global Change Biology, 2024, 30, .	9.6	0
183	Critical needs to close monitoring gaps in pan-tropical wetland CH₄ emissions. Environmental Research Letters, 2024, 19, 114046.	5.2	0