

Atual Jain

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

189 papers	16,035 citations	57 h-index	125 g-index
232 ext. papers	20,335 ext. citations	9.7 avg, IF	5.92 L-index

#	Paper	IF	Citations
189	Assessment of Climate Change Impact on Rice Production Over South and Southeast Asia Under CMIP6 Climate Scenarios 2022 , 367-379		
188	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). <i>Geoscientific Model Development</i> , 2022 , 15, 1289-1316	6.3	6
187	Divergent historical GPP trends among state-of-the-art multi-model simulations and satellite-based products. <i>Earth System Dynamics</i> , 2022 , 13, 833-849	4.8	0
186	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. <i>Earth System Science Data</i> , 2022 , 14, 1639-1675	10.5	3
185	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
184	Assessing the representation of the Australian carbon cycle in global vegetation models. <i>Biogeosciences</i> , 2021 , 18, 5639-5668	4.6	7
183	Worldwide Maize and Soybean Yield Response to Environmental and Management Factors Over the 20th and 21st Centuries. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006304	3.7	1
182	Response of global land evapotranspiration to climate change, elevated CO ₂ , and land use change. <i>Agricultural and Forest Meteorology</i> , 2021 , 311, 108663	5.8	10
181	Peak growing season patterns and climate extremes-driven responses of gross primary production estimated by satellite and process based models over North America. <i>Agricultural and Forest Meteorology</i> , 2021 , 298-299, 108292	5.8	5
180	Greening drylands despite warming consistent with carbon dioxide fertilization effect. <i>Global Change Biology</i> , 2021 , 27, 3336-3349	11.4	2
179	Linking global terrestrial CO ₂ fluxes and environmental drivers: inferences from the Orbiting Carbon Observatory-2 satellite and terrestrial biospheric models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6663-6680	6.8	2
178	Five years of variability in the global carbon cycle: comparing an estimate from the Orbiting Carbon Observatory-2 and process-based models. <i>Environmental Research Letters</i> , 2021 , 16, 054041	6.2	2
177	Global greenhouse gas emissions from animal-based foods are twice those of plant-based foods. <i>Nature Food</i> , 2021 , 2, 724-732	14.4	39
176	Response to Comments on "Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021 , 373, eabg7484	33.3	2
175	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO ₂ . <i>Biogeosciences</i> , 2021 , 18, 4985-5010	4.6	11
174	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020 , 370, 1295-1300	33.9	107
173	Dynamics and drivers of land use and land cover changes in Bangladesh. <i>Regional Environmental Change</i> , 2020 , 20, 1	4.3	18

172	Causes of slowing-down seasonal CO amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020 , 26, 4462-4477.	11.4	9
171	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. <i>Science Advances</i> , 2020 , 6, eaba2724	14.3	85
170	The effect of Indian summer monsoon on the seasonal variation of carbon sequestration by a forest ecosystem over North-East India. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	12
169	Impacts of land use change and elevated CO ₂ on the interannual variations and seasonal cycles of gross primary productivity in China. <i>Earth System Dynamics</i> , 2020 , 11, 235-249	4.8	8
168	Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO measurements from 1999 to 2017. <i>Global Change Biology</i> , 2020 , 26, 3368-3383	11.4	3
167	Scaling carbon fluxes from eddy covariance sites to globe: synthesis and evaluation of the FLUXCOM approach. <i>Biogeosciences</i> , 2020 , 17, 1343-1365	4.6	134
166	Impact of environmental changes and land management practices on wheat production in India. <i>Earth System Dynamics</i> , 2020 , 11, 641-652	4.8	4
165	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
164	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006393	5.9	23
163	Evaluation of simulated soil carbon dynamics in Arctic-Boreal ecosystems. <i>Environmental Research Letters</i> , 2020 , 15, 025005	6.2	11
162	State of the science in reconciling top-down and bottom-up approaches for terrestrial CO budget. <i>Global Change Biology</i> , 2020 , 26, 1068-1084	11.4	19
161	Estimation of Permafrost SOC Stock and Turnover Time Using a Land Surface Model With Vertical Heterogeneity of Permafrost Soils. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006585	5.9	3
160	Climate-Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006613	5.9	7
159	Impacts of extreme summers on European ecosystems: a comparative analysis of 2003, 2010 and 2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190507	5.8	23
158	Investigating Wetland and Nonwetland Soil Methane Emissions and Sinks Across the Contiguous United States Using a Land Surface Model. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006251	5.9	3
157	Global vegetation biomass production efficiency constrained by models and observations. <i>Global Change Biology</i> , 2020 , 26, 1474-1484	11.4	5
156	Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 1485-1509	5.5	52
155	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO ₂ fertilization. <i>Nature Geoscience</i> , 2019 , 12, 809-814	18.3	33

154	Negative extreme events in gross primary productivity and their drivers in China during the past three decades. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 47-58	5.8	17
153	Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 668-689	5.9	21
152	Quantifying the biophysical and socioeconomic drivers of changes in forest and agricultural land in South and Southeast Asia. <i>Global Change Biology</i> , 2019 , 25, 2137-2151	11.4	21
151	Decadal biomass increment in early secondary succession woody ecosystems is increased by CO ₂ enrichment. <i>Nature Communications</i> , 2019 , 10, 454	17.4	37
150	Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019 , 5, eaax1396	14.3	270
149	Carbon and Water Use Efficiencies: A Comparative Analysis of Ten Terrestrial Ecosystem Models under Changing Climate. <i>Scientific Reports</i> , 2019 , 9, 14680	4.9	16
148	Contrasting effects of CO ₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO ₂ exchange. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12361-12375	6.8	14
147	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019 , 11, 1783-1838	10.5	776
146	Contribution of environmental forcings to US runoff changes for the period 1950-2010. <i>Environmental Research Letters</i> , 2018 , 13, 054023	6.2	5
145	Land use change and El Niño-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. <i>Nature Communications</i> , 2018 , 9, 1154	17.4	12
144	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. <i>Nature Communications</i> , 2018 , 9, 2938	17.4	99
143	Accelerating rates of Arctic carbon cycling revealed by long-term atmospheric CO ₂ measurements. <i>Science Advances</i> , 2018 , 4, eaao1167	14.3	40
142	Large-Scale Droughts Responsible for Dramatic Reductions of Terrestrial Net Carbon Uptake Over North America in 2011 and 2012. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2053-2071	3.7	18
141	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
140	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018 , 10, 405-448	10.5	614
139	Widespread seasonal compensation effects of spring warming on northern plant productivity. <i>Nature</i> , 2018 , 562, 110-114	50.4	134
138	Reconciling global-model estimates and country reporting of anthropogenic forest CO ₂ sinks. <i>Nature Climate Change</i> , 2018 , 8, 914-920	21.4	57
137	Impact of the 2015/2016 El Niño on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	41

136	Contrasting interannual atmospheric CO ₂ variabilities and their terrestrial mechanisms for two types of El Niños. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10333-10345	6.8	11
135	Influence of climate variability, fire and phosphorus limitation on vegetation structure and dynamics of the Amazon-Terrado border. <i>Biogeosciences</i> , 2018 , 15, 919-936	4.6	9
134	Challenging terrestrial biosphere models with data from the long-term multifactor Prairie Heating and CO Enrichment experiment. <i>Global Change Biology</i> , 2017 , 23, 3623-3645	11.4	31
133	Compensatory water effects link yearly global land CO sink changes to temperature. <i>Nature</i> , 2017 , 541, 516-520	50.4	341
132	Review of Ecosystem Monitoring in Nepal and Evolving Earth Observation Technologies. <i>Springer Geography</i> , 2017 , 165-183	0.4	
131	Global land carbon sink response to temperature and precipitation varies with ENSO phase. <i>Environmental Research Letters</i> , 2017 , 12, 064007	6.2	29
130	Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. <i>Scientific Reports</i> , 2017 , 7, 4765	4.9	108
129	Global patterns of drought recovery. <i>Nature</i> , 2017 , 548, 202-205	50.4	334
128	Response of Water Use Efficiency to Global Environmental Change Based on Output From Terrestrial Biosphere Models. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1639-1655	5.9	38
127	Estimating Trends and Variation of Net Biome Productivity in India for 1980-2012 Using a Land Surface Model. <i>Geophysical Research Letters</i> , 2017 , 44, 11,573-11,579	4.9	10
126	Dynamics and determinants of land change in India: integrating satellite data with village socioeconomics. <i>Regional Environmental Change</i> , 2017 , 17, 753-766	4.3	28
125	Assessing uncertainties in land cover projections. <i>Global Change Biology</i> , 2017 , 23, 767-781	11.4	76
124	Role of CO ₂ , climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. <i>Biogeosciences</i> , 2016 , 13, 5121-5137	4.6	19
123	Increased light-use efficiency in northern terrestrial ecosystems indicated by CO ₂ and greening observations. <i>Geophysical Research Letters</i> , 2016 , 43, 11,339	4.9	23
122	Comparison of effects of cold-region soil/snow processes and the uncertainties from model forcing data on permafrost physical characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 453-466	7.1	27
121	Carbon and energy fluxes in cropland ecosystems: a model-data comparison. <i>Biogeochemistry</i> , 2016 , 129, 53-76	3.8	17
120	Global change pressures on soils from land use and management. <i>Global Change Biology</i> , 2016 , 22, 1008-1024	28.4	403
119	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730

118	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. <i>Biogeosciences</i> , 2016 , 13, 223-238	4.6	21
117	Uncertainty analysis of terrestrial net primary productivity and net biome productivity in China during 1901–2005. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1372-1393	3.7	23
116	Hotspots of uncertainty in land-use and land-cover change projections: a global-scale model comparison. <i>Global Change Biology</i> , 2016 , 22, 3967-3983	11.4	128
115	The terrestrial carbon budget of South and Southeast Asia. <i>Environmental Research Letters</i> , 2016 , 11, 105006	6.2	26
114	Decadal trends in the seasonal-cycle amplitude of terrestrial CO ₂ exchange resulting from the ensemble of terrestrial biosphere models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2016 , 68, 28968	3.3	24
113	Precipitation and carbon-water coupling jointly control the interannual variability of global land gross primary production. <i>Scientific Reports</i> , 2016 , 6, 39748	4.9	44
112	The Interplay Between Bioenergy Grass Production and Water Resources in the United States of America. <i>Environmental Science & Technology</i> , 2016 , 50, 3010-9	10.3	14
111	Estimates of Biomass Yield for Perennial Bioenergy Grasses in the USA. <i>Bioenergy Research</i> , 2015 , 8, 688-715	3.15	22
110	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. <i>Agricultural and Forest Meteorology</i> , 2015 , 211-212, 85-99	5.8	11
109	System of Systems Model for Analysis of Biofuel Development. <i>Journal of Infrastructure Systems</i> , 2015 , 21, 04014050	2.9	17
108	Using a team survey to improve team communication for enhanced delivery of agro-climate decision support tools. <i>Agricultural Systems</i> , 2015 , 138, 31-37	6.1	9
107	Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 775-792	5.9	159
106	Crop models capture the impacts of climate variability on corn yield. <i>Geophysical Research Letters</i> , 2015 , 42, 3356-3363	4.9	11
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. <i>Environmental Science & Technology</i> , 2015 , 49, 11932-40	10.3	19
104	Toward Optimal Integration of terrestrial biosphere models. <i>Geophysical Research Letters</i> , 2015 , 42, 4418-4428	4.9	42
103	Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. <i>Environmental Research Letters</i> , 2015 , 10, 094008	6.2	93
102	Increased influence of nitrogen limitation on CO ₂ emissions from future land use and land use change. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1524-1548	5.9	26
101	Development of Decadal (1985–1995–2005) Land Use and Land Cover Database for India. <i>Remote Sensing</i> , 2015 , 7, 2401-2430	5	133

100	Using ecosystem experiments to improve vegetation models. <i>Nature Climate Change</i> , 2015 , 5, 528-534	21.4	191
99	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land CO ₂ sink. <i>Science</i> , 2015 , 348, 895-9	33.3	684
98	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015 , 7, 349-396	10.5	513
97	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
96	Spatial modeling of agricultural land use change at global scale. <i>Ecological Modelling</i> , 2014 , 291, 152-174	7.1	71
95	Impact of large-scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 585-600	5.9	112
94	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , 2014 , 191, 33-50	5.8	81
93	Comprehensive ecosystem model-data synthesis using multiple data sets at two temperate forest free-air CO ₂ enrichment experiments: Model performance at ambient CO ₂ concentration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 937-964	3.7	83
92	Carbon cycle uncertainty in the Alaskan Arctic. <i>Biogeosciences</i> , 2014 , 11, 4271-4288	4.6	69
91	Where does the carbon go? A model-data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest free-air CO ₂ enrichment sites. <i>New Phytologist</i> , 2014 , 203, 883-99	9.8	194
90	Evaluation of 11 terrestrial carbon-nitrogen cycle models against observations from two temperate Free-Air CO ₂ Enrichment studies. <i>New Phytologist</i> , 2014 , 202, 803-822	9.8	300
89	Climate-driven uncertainties in modeling terrestrial energy and water fluxes: a site-level to global-scale analysis. <i>Global Change Biology</i> , 2014 , 20, 1885-900	11.4	25
88	Climate-driven uncertainties in modeling terrestrial gross primary production: a site level to global-scale analysis. <i>Global Change Biology</i> , 2014 , 20, 1394-411	11.4	53
87	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014 , 6, 235-263	10.5	264
86	Advancing Land Change Modeling 2014 ,		12
85	Carbon dynamics in the Amazonian Basin: Integration of eddy covariance and ecophysiological data with a land surface model. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 156-167	5.8	40
84	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 111-127	5.8	49
83	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 145-155	5.8	27

82	Forest water use and water use efficiency at elevated CO ₂ : a model-data intercomparison at two contrasting temperate forest FACE sites. <i>Global Change Biology</i> , 2013 , 19, 1759-79	11.4	271
81	CO ₂ emissions from land-use change affected more by nitrogen cycle, than by the choice of land-cover data. <i>Global Change Biology</i> , 2013 , 19, 2893-906	11.4	102
80	The global carbon budget 1959-2011. <i>Earth System Science Data</i> , 2013 , 5, 165-185	10.5	436
79	The distribution of soil phosphorus for global biogeochemical modeling. <i>Biogeosciences</i> , 2013 , 10, 2525-2537	4.6	127
78	Global carbon budget 2013 2013 ,		75
77	Implementation of dynamic crop growth processes into a land surface model: evaluation of energy, water and carbon fluxes under corn and soybean rotation. <i>Biogeosciences</i> , 2013 , 10, 8039-8066	4.6	35
76	North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. <i>Ecological Modelling</i> , 2012 , 232, 144-157	3	180
75	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		239
74	Three distinct global estimates of historical land-cover change and land-use conversions for over 200 years. <i>Frontiers of Earth Science</i> , 2012 , 6, 122-139	1.7	90
73	The global carbon budget 1959-2011 2012 ,		122
72	Contributions of secondary forest and nitrogen dynamics to terrestrial carbon uptake. <i>Biogeosciences</i> , 2010 , 7, 3041-3050	4.6	37
71	An integrated biogeochemical and economic analysis of bioenergy crops in the Midwestern United States. <i>GCB Bioenergy</i> , 2010 , 2, 217-234	5.6	107
70	Integration of nitrogen cycle dynamics into the Integrated Science Assessment Model for the study of terrestrial ecosystem responses to global change. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	80
69	Nitrogen attenuation of terrestrial carbon cycle response to global environmental factors. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	113
68	Tracking uncertainties in the causal chain from human activities to climate. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	22
67	Can we reconcile differences in estimates of carbon fluxes from land-use change and forestry for the 1990s?. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3291-3310	6.8	24
66	Learning about the ocean carbon cycle from observational constraints and model simulations of multiple tracers. <i>Climatic Change</i> , 2008 , 89, 45-66	4.5	3
65	Effects of carbon dioxide and climate change on ocean acidification and carbonate mineral saturation. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	60

64	Global estimation of CO emissions using three sets of satellite data for burned area. <i>Atmospheric Environment</i> , 2007 , 41, 6931-6940	5.3	35
63	Comment on Modern-age buildup of CO ₂ and its effects on seawater acidity and salinity by Hugo A. Loftica. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	13
62	Estimates of global biomass burning emissions for reactive greenhouse gases (CO, NMHCs, and NO _x) and CO ₂ . <i>Journal of Geophysical Research</i> , 2006 , 111,		46
61	Modeling the effects of two different land cover change data sets on the carbon stocks of plants and soils in concert with CO ₂ and climate change. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	100
60	Assessing the effectiveness of direct injection for ocean carbon sequestration under the influence of climate change. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	12
59	Assessing the impact of changes in climate and CO ₂ on potential carbon sequestration in agricultural soils. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	9
58	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 CO ₂ . <i>Journal of Geophysical Research</i> , 2005 , 110,		11
57	Modeling of global biogenic emissions for key indirect greenhouse gases and their response to atmospheric CO ₂ increases and changes in land cover and climate. <i>Journal of Geophysical Research</i> , 2005 , 110,		24
56	Modeling the effects of two different land cover change data sets on the carbon stocks of plants and soils in concert with CO ₂ and climate change. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	3
55	Carbon Management Response curves: estimates of temporal soil carbon dynamics. <i>Environmental Management</i> , 2004 , 33, 507-18	3.1	70
54	Differing methods of accounting ocean carbon sequestration efficiency. <i>Journal of Geophysical Research</i> , 2004 , 109,		6
53	Planning for future energy resources. <i>Science</i> , 2003 , 300, 581-4; author reply 581-4	33.3	15
52	Projecting future climate change: Implications of carbon cycle model intercomparisons. <i>Global Biogeochemical Cycles</i> , 2003 , 17, n/a-n/a	5.9	36
51	Climate sensitivity uncertainty and the need for energy without CO ₂ emission. <i>Science</i> , 2003 , 299, 2052-4	33.3	211
50	Advanced technology paths to global climate stability: energy for a greenhouse planet. <i>Science</i> , 2002 , 298, 981-7	33.3	977
49	Substitution of Natural Gas for Coal: Climatic Effects of Utility Sector Emissions. <i>Climatic Change</i> , 2002 , 54, 107-139	4.5	81
48	Concerns about climate change and the role of fossil fuel use. <i>Fuel Processing Technology</i> , 2001 , 71, 99-112	1.2	147
47	Evaluation of the atmospheric lifetime and radiative forcing on climate for 1,2,2,2-tetrafluoroethyl trifluoromethyl ether (CF ₃ OCH ₂ CF ₃). <i>Journal of Geophysical Research</i> , 2001 , 106, 12615-12618		8

46	Radiative Forcing of Climate Change. <i>Space Science Reviews</i> , 2000 , 94, 363-373	7.5	16
45	Radiative forcings and global warming potentials of 39 greenhouse gases. <i>Journal of Geophysical Research</i> , 2000 , 105, 20773-20790		100
44	Global warming potential assessment for CF ₃ OCF = CF ₂ . <i>Journal of Geophysical Research</i> , 2000 , 105, 4019-4029		16
43	Consistent sets of atmospheric lifetimes and radiative forcings on climate for CFC replacements: HCFCs and HFCs. <i>Journal of Geophysical Research</i> , 2000 , 105, 6903-6914		54
42	Contribution of CH ₄ to Multi-Gas Emission Reduction Targets 2000 , 425-432		4
41	Impacts on Global Ozone and Climate from Use and Emission of 2,2-Dichloro-1,1,1-Trifluoroethane (HCFC-123). <i>Climatic Change</i> , 1999 , 42, 439-474	4.5	11
40	CLIMATE CHANGE POLICY:Costs of Multigreenhouse Gas Reduction Targets for the USA. <i>Science</i> , 1999 , 286, 905-906	33.3	47
39	Global change: state of the science. <i>Environmental Pollution</i> , 1999 , 100, 57-86	9.3	57
38	Model-based estimation of the global carbon budget and its uncertainty from carbon dioxide and carbon isotope records. <i>Journal of Geophysical Research</i> , 1999 , 104, 31127-31143		19
37	Future atmospheric methane concentrations in the context of the stabilization of greenhouse gas concentrations. <i>Journal of Geophysical Research</i> , 1999 , 104, 19183-19190		15
36	Reduction of the atmospheric concentration of methane as a strategic response option to global climate change 1999 , 775-780		2
35	Energy implications of future stabilization of atmospheric CO ₂ content. <i>Nature</i> , 1998 , 395, 881-884	50.4	462
34	Evaluation of ozone depletion potentials for chlorobromomethane (CH ₂ ClBr) and 1-bromo-propane (CH ₂ BrCH ₂ CH ₃). <i>Atmospheric Environment</i> , 1998 , 32, 107-113	5.3	33
33	Lifetimes and global warming potentials for dimethyl ether and for fluorinated ethers: CH ₃ OCF ₃ (E143a), CHF ₂ OCF ₂ (E134), CHF ₂ OCF ₃ (E125). <i>Journal of Geophysical Research</i> , 1998 , 103, 28181-28186		62
32	Is there an imbalance in the global budget of bomb-produced radiocarbon?. <i>Journal of Geophysical Research</i> , 1997 , 102, 1327-1333		13
31	A globally aggregated reconstruction of cycles of carbon and its isotopes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996 , 48, 583-600	3.3	14
30	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996 , 48, 583-600	3.3	23
29	Accounting for the missing carbon-sink with the CO ₂ -fertilization effect. <i>Climatic Change</i> , 1996 , 33, 31-62.5		44

28	A welfare-based index for assessing environmental effects of greenhouse-gas emissions. <i>Nature</i> , 1996 , 381, 301-303	50.4	87
27	Costing the Earth. <i>Nature</i> , 1996 , 383, 571-571	50.4	
26	Sensitivity of direct global warming potentials to key uncertainties. <i>Climatic Change</i> , 1995 , 29, 265-297	4.5	31
25	Distribution of radiocarbon as a test of global carbon cycle models. <i>Global Biogeochemical Cycles</i> , 1995 , 9, 153-166	5.9	50
24	The effectiveness of measures to reduce the man-made greenhouse effect. The application of a Climate-policy Model. <i>Theoretical and Applied Climatology</i> , 1994 , 49, 103-118	3	5
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