

Richard A Houghton

List of Publications by Year in descending order

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113
papers

39,602
citations

13827

67
h-index

25716

108
g-index

185
all docs

185
docs citations

185
times ranked

32475
citing authors

#	ARTICLE	IF	CITATIONS
1	Terrestrial sources and sinks of carbon inferred from terrestrial data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 420.	0.8	50
2	The annual net flux of carbon to the atmosphere from changes in land use 1850â€“1990*. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 298.	0.8	363
3	Revised estimates of the annual net flux of carbon to the atmosphere from changes in land use and land management 1850â€“2000. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 378.	0.8	226
4	How well do we know the flux of CO ₂ from land-use change?. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 337.	0.8	175
5	Are Landâ€“Use Change Emissions in Southeast Asia Decreasing or Increasing?. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	7
6	Carbon fluxes from contemporary forest disturbances in North Carolina evaluated using a grid-based carbon accounting model and fine resolution remote sensing products. <i>Science of Remote Sensing</i> , 2022, 5, 100042.	2.2	3
7	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005.	3.7	663
8	Bottom-up approaches for estimating terrestrial GHG budgets: Bookkeeping, process-based modeling, and data-driven methods. , 2022, , 59-85.		0
9	The global potential for increased storage of carbon on land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	54
10	Global maps of twenty-first century forest carbon fluxes. <i>Nature Climate Change</i> , 2021, 11, 234-240.	8.1	425
11	Evaluating nature-based solutions for climate mitigation and conservation requires comprehensive carbon accounting. <i>Science of the Total Environment</i> , 2021, 769, 144341.	3.9	88
12	The consolidated European synthesis of CO ₂ emissions and removals for the European Union and United Kingdom: 1990â€“2018. <i>Earth System Science Data</i> , 2021, 13, 2363-2406.	3.7	23
13	Comparison of uncertainties in land-use change fluxes from bookkeeping model parameterisation. <i>Earth System Dynamics</i> , 2021, 12, 745-762.	2.7	22
14	Comment on â€“Carbon Intensity of corn ethanol in the United States: state of the scienceâ€™. <i>Environmental Research Letters</i> , 2021, 16, 118001.	2.2	11
15	Negative Emissions From Stopping Deforestation and Forest Degradation. , 2020, , 226-236.		0
16	Mapping carbon accumulation potential from global natural forest regrowth. <i>Nature</i> , 2020, 585, 545-550.	13.7	278
17	Contribution of land use to the interannual variability of the land carbon cycle. <i>Nature Communications</i> , 2020, 11, 3170.	5.8	57
18	Understanding the importance of primary tropical forest protection as a mitigation strategy. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020, 25, 763-787.	1.0	109

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19	Terrestrial fluxes of carbon in GCP carbon budgets. <i>Global Change Biology</i> , 2020, 26, 3006-3014.	4.2	32
20	Historical CO ₂ emissions from land use and land cover change and their uncertainty. <i>Biogeosciences</i> , 2020, 17, 4075-4101.	1.3	112
21	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	3.7	1,477
22	Large greenhouse gas savings due to changes in the post-Soviet food systems. <i>Environmental Research Letters</i> , 2019, 14, 065009.	2.2	38
23	Response to Comment on "Tropical forests are a net carbon source based on aboveground measurements of gain and loss". <i>Science</i> , 2019, 363, .	6.0	17
24	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	3.7	1,159
25	The exceptional value of intact forest ecosystems. <i>Nature Ecology and Evolution</i> , 2018, 2, 599-610.	3.4	681
26	Interactions Between Land-Use Change and Climate-Carbon Cycle Feedbacks. <i>Current Climate Change Reports</i> , 2018, 4, 115-127.	2.8	23
27	Negative emissions from stopping deforestation and forest degradation, globally. <i>Global Change Biology</i> , 2018, 24, 350-359.	4.2	119
28	Climate, economic, and environmental impacts of producing wood for bioenergy. <i>Environmental Research Letters</i> , 2018, 13, 050201.	2.2	47
29	Natural climate solutions for the United States. <i>Science Advances</i> , 2018, 4, eaat1869.	4.7	333
30	Reconciling global-model estimates and country reporting of anthropogenic forest CO ₂ sinks. <i>Nature Climate Change</i> , 2018, 8, 914-920.	8.1	101
31	Where is the residual terrestrial carbon sink?. <i>Global Change Biology</i> , 2018, 24, 3277-3279.	4.2	17
32	Lower land-use emissions responsible for increased net land carbon sink during the slow warming period. <i>Nature Geoscience</i> , 2018, 11, 739-743.	5.4	110
33	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	3.7	1,167
34	Gross and net land cover changes in the main plant functional types derived from the annual ESA CCI land cover maps (1992-2015). <i>Earth System Science Data</i> , 2018, 10, 219-234.	3.7	193
35	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018, 10, 405-448.	3.7	801
36	Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. <i>Nature Climate Change</i> , 2017, 7, 148-152.	8.1	151

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37	Fire and deforestation dynamics in Amazonia (1973–2014). <i>Global Biogeochemical Cycles</i> , 2017, 31, 24-38.	1.9	66
38	Global and regional fluxes of carbon from land use and land cover change 1850–2015. <i>Global Biogeochemical Cycles</i> , 2017, 31, 456-472.	1.9	362
39	Tropical forests are a net carbon source based on aboveground measurements of gain and loss. <i>Science</i> , 2017, 358, 230-234.	6.0	539
40	Natural climate solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11645-11650.	3.3	1,709
41	Seeing Forests for More than Carbon in the Trees: Incentivizing Actions beyond Carbon Storage to Mitigate Climate Change. <i>Journal of Forestry</i> , 2017, 115, 329-331.	0.5	2
42	Multi-gas and multi-source comparisons of six land use emission datasets and AFOLU estimates in the Fifth Assessment Report, for the tropics for 2000–2005. <i>Biogeosciences</i> , 2016, 13, 5799-5819.	1.3	8
43	Deforestation. , 2016, , 313-315.		1
44	The terrestrial carbon budget of South and Southeast Asia. <i>Environmental Research Letters</i> , 2016, 11, 105006.	2.2	39
45	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016, 8, 605-649.	3.7	905
46	Hidden carbon sink beneath desert. <i>Geophysical Research Letters</i> , 2015, 42, 5880-5887.	1.5	89
47	Measurement and monitoring needs, capabilities and potential for addressing reduced emissions from deforestation and forest degradation under REDD+. <i>Environmental Research Letters</i> , 2015, 10, 123001.	2.2	115
48	Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. <i>Biogeosciences</i> , 2015, 12, 2565-2584.	1.3	96
49	Tropical nighttime warming as a dominant driver of variability in the terrestrial carbon sink. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15591-15596.	3.3	92
50	Aboveground carbon loss in natural and managed tropical forests from 2000 to 2012. <i>Environmental Research Letters</i> , 2015, 10, 074002.	2.2	142
51	A role for tropical forests in stabilizing atmospheric CO ₂ . <i>Nature Climate Change</i> , 2015, 5, 1022-1023.	8.1	243
52	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015, 7, 349-396.	3.7	616
53	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015, 7, 47-85.	3.7	463
54	The declining uptake rate of atmospheric CO ₂ by land and ocean sinks. <i>Biogeosciences</i> , 2014, 11, 3453-3475.	1.3	62

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55	Terminology as a key uncertainty in net land use and land cover change carbon flux estimates. <i>Earth System Dynamics</i> , 2014, 5, 177-195.	2.7	152
56	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014, 11, 381-407.	1.3	162
57	Evidence for environmentally enhanced forest growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9527-9532.	3.3	116
58	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014, 6, 235-263.	3.7	311
59	Land management and land-cover change have impacts of similar magnitude on surface temperature. <i>Nature Climate Change</i> , 2014, 4, 389-393.	8.1	404
60	Keeping management effects separate from environmental effects in terrestrial carbon accounting. <i>Global Change Biology</i> , 2013, 19, 2609-2612.	4.2	37
61	Bias in the attribution of forest carbon sinks. <i>Nature Climate Change</i> , 2013, 3, 854-856.	8.1	129
62	Sustainable landscapes in a world of change: tropical forests, land use and implementation of REDD+: Part I. <i>Carbon Management</i> , 2013, 4, 465-468.	1.2	4
63	The global carbon budget 1959–2011. <i>Earth System Science Data</i> , 2013, 5, 165-185.	3.7	527
64	National-scale estimation of gross forest aboveground carbon loss: a case study of the Democratic Republic of the Congo. <i>Environmental Research Letters</i> , 2013, 8, 044039.	2.2	49
65	The emissions of carbon from deforestation and degradation in the tropics: past trends and future potential. <i>Carbon Management</i> , 2013, 4, 539-546.	1.2	86
66	Sustainable landscapes in a world of change: tropical forests, land use and implementation of REDD+: Part II. <i>Carbon Management</i> , 2013, 4, 567-569.	1.2	4
67	Joint CO ₂ and CH ₄ accountability for global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2865-74.	3.3	37
68	The carbon budget of South Asia. <i>Biogeosciences</i> , 2013, 10, 513-527.	1.3	94
69	Carbon emissions from land use and land-cover change. <i>Biogeosciences</i> , 2012, 9, 5125-5142.	1.3	839
70	Estimated carbon dioxide emissions from tropical deforestation improved by carbon-density maps. <i>Nature Climate Change</i> , 2012, 2, 182-185.	8.1	1,326
71	Observations and assessment of forest carbon dynamics following disturbance in North America. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	112
72	Carbon emissions and the drivers of deforestation and forest degradation in the tropics. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 597-603.	3.1	253

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73	Historic Changes in Terrestrial Carbon Storage. , 2012, , 59-82.		16
74	The carbon balance of South America: a review of the status, decadal trends and main determinants. Biogeosciences, 2012, 9, 5407-5430.	1.3	78
75	The Effects of Land Use and Management on the Global Carbon Cycle. Remote Sensing and Digital Image Processing, 2012, , 237-256.	0.7	2
76	A Large and Persistent Carbon Sink in the World's Forests. Science, 2011, 333, 988-993.	6.0	5,393
77	Recent rates of forest harvest and conversion in North America. Journal of Geophysical Research, 2011, 116, .	3.3	92
78	A synthesis of current knowledge on forests and carbon storage in the United States. , 2011, 21, 1902-1924.		354
79	Characterizing 3D vegetation structure from space: Mission requirements. Remote Sensing of Environment, 2011, 115, 2753-2775.	4.6	228
80	Post-Soviet farmland abandonment, forest recovery, and carbon sequestration in western Ukraine. Global Change Biology, 2011, 17, 1335-1349.	4.2	159
81	Harmonization of land-use scenarios for the period 1500-2100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. Climatic Change, 2011, 109, 117-161.	1.7	1,080
82	Carbon implications of forest restitution in post-socialist Romania. Environmental Research Letters, 2011, 6, 045202.	2.2	47
83	Policy Update: Towards results-based REDD+ mechanisms. Carbon Management, 2011, 2, 513-515.	1.2	1
84	Update on CO2 emissions. Nature Geoscience, 2010, 3, 811-812.	5.4	561
85	Fixing a flawed approach to forest accounting in the next round of the Kyoto Protocol. Carbon Management, 2010, 1, 179-182.	1.2	6
86	Welcome to Carbon Management. Carbon Management, 2010, 1, 1-3.	1.2	2
87	The role of science in Reducing Emissions from Deforestation and Forest Degradation (REDD). Carbon Management, 2010, 1, 253-259.	1.2	26
88	Anthropogenic CO ₂ emissions in Africa. Biogeosciences, 2009, 6, 463-468.	1.3	58
89	Mapping and monitoring carbon stocks with satellite observations: a comparison of methods. Carbon Balance and Management, 2009, 4, 2.	1.4	274
90	Trends in the sources and sinks of carbon dioxide. Nature Geoscience, 2009, 2, 831-836.	5.4	1,746

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91	Importance of biomass in the global carbon cycle. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	447
92	Ecosystem responses to recent climate change and fire disturbance at northern high latitudes: observations and model results contrasting northern Eurasia and North America. <i>Environmental Research Letters</i> , 2007, 2, 045031.	2.2	160
93	Contributions to accelerating atmospheric CO ₂ growth from economic activity, carbon intensity, and efficiency of natural sinks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18866-18870.	3.3	1,770
94	Emissions of carbon from land use change in sub-Saharan Africa. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	66
95	The underpinnings of land-use history: three centuries of global gridded land-use transitions, wood-harvest activity, and resulting secondary lands. <i>Global Change Biology</i> , 2006, 12, 1208-1229.	4.2	449
96	Invasive grass reduces aboveground carbon stocks in shrublands of the Western US. <i>Global Change Biology</i> , 2006, 12, 1815-1822.	4.2	174
97	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006, 9, 1041-1050.	1.6	904
98	Aboveground Forest Biomass and the Global Carbon Balance. <i>Global Change Biology</i> , 2005, 11, 945-958.	4.2	909
99	Typological responses of ecosystems to land use change. <i>Geophysical Monograph Series</i> , 2004, , 337-344.	0.1	2
100	Effects of land-use change on the carbon balance of terrestrial ecosystems. <i>Geophysical Monograph Series</i> , 2004, , 85-98.	0.1	92
101	Trade-offs in land-use decisions: Towards a framework for assessing multiple ecosystem responses to land-use change. <i>Geophysical Monograph Series</i> , 2004, , 1-9.	0.1	18
102	Revised estimates of the annual net flux of carbon to the atmosphere from changes in land use and land management 1850-2000. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 378-390.	0.8	669
103	Why are estimates of the terrestrial carbon balance so different?. <i>Global Change Biology</i> , 2003, 9, 500-509.	4.2	339
104	Sources and sinks of carbon from land-use change in China. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	179
105	Carbon emissions from tropical deforestation and regrowth based on satellite observations for the 1980s and 1990s. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14256-14261.	3.3	562
106	Terrestrial carbon sinks--uncertain explanations. <i>Biologist</i> , 2002, 49, 155-60.	2.0	17
107	Annual fluxes of carbon from deforestation and regrowth in the Brazilian Amazon. <i>Nature</i> , 2000, 403, 301-304.	13.7	613
108	The annual net flux of carbon to the atmosphere from changes in land use 1850-1990*. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 298-313.	0.8	392

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109	The U.S. Carbon Budget: Contributions from Land-Use Change. <i>Science</i> , 1999, 285, 574-578.	6.0	934
110	Land-use change in the Soviet Union between 1850 and 1980: causes of a net release of CO ₂ to the atmosphere. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1988, 40B, 116-128.	0.8	37
111	Changes in the Carbon Content of Terrestrial Biota and Soils between 1860 and 1980: A Net Release of CO ₂ to the Atmosphere. <i>Ecological Monographs</i> , 1983, 53, 235-262.	2.4	807
112	Measurement and Monitoring for REDD+: The Needs, Current Technological Capabilities, and Future Potential. <i>SSRN Electronic Journal</i> , 0, , .	0.4	5
113	The Role of the World's Forests in Global Warming. , 0, , 21-58.		31