

Ruth DeFries

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

31,002
citations

32410

55
h-index

26792

111
g-index

126
all docs

126
docs citations

126
times ranked

38233
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved household living standards can restore dry tropical forests. <i>Biotropica</i> , 2022, 54, 1480-1490.	0.8	12
2	Introducing "Anthropocene Science"™: A New International Journal for Addressing Human Impact on the Resilience of Planet Earth. <i>Anthropocene Science</i> , 2022, 1, 1-4.	1.6	3
3	Ten facts about land systems for sustainability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	157
4	Synthesizing habitat connectivity analyses of a globally important human-dominated tiger-conservation landscape. <i>Conservation Biology</i> , 2022, 36, .	2.4	12
5	Using citizen science to parse climatic and land cover influences on bird occupancy in a tropical biodiversity hotspot. <i>Ecography</i> , 2022, 2022, .	2.1	1
6	Migration, assets, and forest degradation in a tropical deciduous forest of South Asia. <i>Ecological Economics</i> , 2021, 181, 106887.	2.9	7
7	Pathways towards people-oriented conservation in a human-dominated landscape: the network for conserving Central India. <i>Ecosystems and People</i> , 2021, 17, 432-446.	1.3	3
8	Detection of delay in post-monsoon agricultural burning across Punjab, India: potential drivers and consequences for air quality. <i>Environmental Research Letters</i> , 2021, 16, 014014.	2.2	15
9	Groundwater depletion will reduce cropping intensity in India. <i>Science Advances</i> , 2021, 7, .	4.7	87
10	India's Commitments to Increase Tree and Forest Cover: Consequences for Water Supply and Agriculture Production within the Central Indian Highlands. <i>Water (Switzerland)</i> , 2021, 13, 959.	1.2	8
11	Substitution of inland fisheries with aquaculture and chicken undermines human nutrition in the Peruvian Amazon. <i>Nature Food</i> , 2021, 2, 192-197.	6.2	14
12	Multiple cropping alone does not improve year-round food security among smallholders in rural India. <i>Environmental Research Letters</i> , 2021, 16, 065017.	2.2	4
13	Declining diversity of wild-caught species puts dietary nutrient supplies at risk. <i>Science Advances</i> , 2021, 7, .	4.7	20
14	Sensitivity of seasonal migration to climatic variability in central India. <i>Environmental Research Letters</i> , 2021, 16, 064074.	2.2	4
15	Mapping smallholder forest plantations in Andhra Pradesh, India using multitemporal harmonized landsat sentinel-2 data. <i>Land Degradation and Development</i> , 2021, 32, 4212-4226.	1.8	3
16	A systems lens to evaluate the compound human health impacts of anthropogenic activities. <i>One Earth</i> , 2021, 4, 1233-1247.	3.6	0
17	Greater stability of carbon capture in species-rich natural forests compared to species-poor plantations. <i>Environmental Research Letters</i> , 2020, 15, 034011.	2.2	46
18	Tree diversity and carbon storage cobenefits in tropical human-dominated landscapes. <i>Conservation Letters</i> , 2020, 13, e12699.	2.8	21

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19	Shedding light on the evidence blind spots confounding the multiple objectives of SDG 2. <i>Nature Plants</i> , 2020, 6, 1203-1210.	4.7	12
20	Crop residue burning practices across north India inferred from household survey data: Bridging gaps in satellite observations. <i>Atmospheric Environment: X</i> , 2020, 8, 100091.	0.8	14
21	Contributions of financial, social and natural capital to food security around Kanha National Park in central India. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	9
22	The association between crop and income diversity and farmer intra-household dietary diversity in India. <i>Food Security</i> , 2020, 12, 369-390.	2.4	25
23	Bits and pieces: Forest fragmentation by linear intrusions in India. <i>Land Use Policy</i> , 2020, 99, 104619.	2.5	35
24	Sustainability Education as a Pathway to Minority Participation in STEM. <i>New Directions for Teaching and Learning</i> , 2020, 2020, 139-154.	0.2	1
25	Food security and livelihoods of post-resettlement households around Kanha National Park. <i>PLoS ONE</i> , 2020, 15, e0243825.	1.1	2
26	Sensitivity of grain yields to historical climate variability in India. <i>Environmental Research Letters</i> , 2019, 14, 064013.	2.2	54
27	Missing emissions from post-monsoon agricultural fires in northwestern India: regional limitations of MODIS burned area and active fire products. <i>Environmental Research Communications</i> , 2019, 1, 011007.	0.9	35
28	Natural climate solutions are not enough. <i>Science</i> , 2019, 363, 933-934.	6.0	104
29	Inadequate Zinc Intake in India: Past, Present, and Future. <i>Food and Nutrition Bulletin</i> , 2019, 40, 26-40.	0.5	15
30	Resettlement and landscape-level conservation: Corridors, human-wildlife conflict, and forest use in Central India. <i>Biological Conservation</i> , 2019, 232, 142-151.	1.9	20
31	Assessing the sustainability of post-Green Revolution cereals in India. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25034-25041.	3.3	75
32	Aligning conservation efforts with resource use around protected areas. <i>Ambio</i> , 2019, 48, 160-171.	2.8	11
33	Trade and the equitability of global food nutrient distribution. <i>Nature Sustainability</i> , 2018, 1, 34-37.	11.5	107
34	Quantifying the influence of agricultural fires in northwest India on urban air pollution in Delhi, India. <i>Environmental Research Letters</i> , 2018, 13, 044018.	2.2	143
35	Healthy, affordable and climate-friendly diets in India. <i>Global Environmental Change</i> , 2018, 49, 154-165.	3.6	77
36	Seasonal impact of regional outdoor biomass burning on air pollution in three Indian cities: Delhi, Bengaluru, and Pune. <i>Atmospheric Environment</i> , 2018, 172, 83-92.	1.9	150

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37	Role of the Madden-Julian Oscillation in the Transport of Smoke From Sumatra to the Malay Peninsula During Severe Non-El Niño Haze Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6282-6294.	1.2	17
38	Impact of Historical Changes in Coarse Cereals Consumption in India on Micronutrient Intake and Anemia Prevalence. <i>Food and Nutrition Bulletin</i> , 2018, 39, 377-392.	0.5	51
39	Alternative cereals can improve water use and nutrient supply in India. <i>Science Advances</i> , 2018, 4, eaa01108.	4.7	87
40	Understanding dietary and staple food transitions in China from multiple scales. <i>PLoS ONE</i> , 2018, 13, e0195775.	1.1	40
41	Targeting restoration sites to improve connectivity in a tiger conservation landscape in India. <i>PeerJ</i> , 2018, 6, e5587.	0.9	23
42	Ecosystem management as a wicked problem. <i>Science</i> , 2017, 356, 265-270.	6.0	332
43	Fragmentation increases wind disturbance impacts on forest structure and carbon stocks in a western Amazonian landscape. <i>Ecological Applications</i> , 2017, 27, 1901-1915.	1.8	38
44	A human-driven decline in global burned area. <i>Science</i> , 2017, 356, 1356-1362.	6.0	694
45	Dynamics and determinants of land change in India: integrating satellite data with village socioeconomics. <i>Regional Environmental Change</i> , 2017, 17, 753-766.	1.4	45
46	Robust assessment comes of age. <i>Nature Ecology and Evolution</i> , 2017, 1, 1222-1223.	3.4	0
47	An Automated Approach to Map Winter Cropped Area of Smallholder Farms across Large Scales Using MODIS Imagery. <i>Remote Sensing</i> , 2017, 9, 566.	1.8	21
48	Targeted reforestation could reverse declines in connectivity for understory birds in a tropical habitat corridor. <i>Ecological Applications</i> , 2016, 26, 1456-1474.	1.8	26
49	Public health impacts of the severe haze in Equatorial Asia in September–October 2015: demonstration of a new framework for informing fire management strategies to reduce downwind smoke exposure. <i>Environmental Research Letters</i> , 2016, 11, 094023.	2.2	249
50	Examining the relationship between environmental factors and conflict in pastoralist areas of East Africa. <i>Science of the Total Environment</i> , 2016, 557-558, 601-611.	3.9	40
51	Intra-annual dynamics of water stress in the central Indian Highlands from 2002 to 2012. <i>Regional Environmental Change</i> , 2016, 16, 83-95.	1.4	6
52	Synergies and trade-offs for sustainable agriculture: Nutritional yields and climate-resilience for cereal crops in Central India. <i>Global Food Security</i> , 2016, 11, 44-53.	4.0	63
53	A landscape approach to conservation and development in the Central Indian Highlands. <i>Regional Environmental Change</i> , 2016, 16, 1-3.	1.4	7
54	Quantifying fluctuations in winter productive cropped area in the Central Indian Highlands. <i>Regional Environmental Change</i> , 2016, 16, 69-82.	1.4	4

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55	Extreme Air Pollution in Global Megacities. <i>Current Climate Change Reports</i> , 2016, 2, 15-27.	2.8	83
56	Changes in the dry tropical forests in Central India with human use. <i>Regional Environmental Change</i> , 2016, 16, 5-15.	1.4	25
57	Connecting the dots: mapping habitat connectivity for tigers in central India. <i>Regional Environmental Change</i> , 2016, 16, 53-67.	1.4	145
58	Mapping Species Composition of Forests and Tree Plantations in Northeastern Costa Rica with an Integration of Hyperspectral and Multitemporal Landsat Imagery. <i>Remote Sensing</i> , 2015, 7, 5660-5696.	1.8	57
59	Biogas Cook Stoves for Healthy and Sustainable Diets? A Case Study in Southern India. <i>Frontiers in Nutrition</i> , 2015, 2, 28.	1.6	30
60	Metrics for land-scarce agriculture. <i>Science</i> , 2015, 349, 238-240.	6.0	171
61	Sensitivity of crop cover to climate variability: Insights from two Indian agro-ecoregions. <i>Journal of Environmental Management</i> , 2015, 148, 21-30.	3.8	37
62	Winter crop sensitivity to inter-annual climate variability in central India. <i>Climatic Change</i> , 2014, 126, 61-76.	1.7	23
63	Smallholder farmer cropping decisions related to climate variability across multiple regions. <i>Global Environmental Change</i> , 2014, 25, 163-172.	3.6	207
64	Synergies and tradeoffs between cash crop production and food security: a case study in rural Ghana. <i>Food Security</i> , 2014, 6, 541-554.	2.4	103
65	Pyrogeography, historical ecology, and the human dimensions of fire regimes. <i>Journal of Biogeography</i> , 2014, 41, 833-836.	1.4	47
66	Major atmospheric emissions from peat fires in Southeast Asia during non-drought years: evidence from the 2013 Sumatran fires. <i>Scientific Reports</i> , 2014, 4, 6112.	1.6	258
67	Mapping cropping intensity of smallholder farms: A comparison of methods using multiple sensors. <i>Remote Sensing of Environment</i> , 2013, 134, 210-223.	4.6	118
68	Export-oriented deforestation in Mato Grosso: harbinger or exception for other tropical forests?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120173.	1.8	74
69	El Niño and health risks from landscape fire emissions in southeast Asia. <i>Nature Climate Change</i> , 2013, 3, 131-136.	8.1	250
70	Framing Sustainability in a Telecoupled World. <i>Ecology and Society</i> , 2013, 18, .	1.0	673
71	Long-term trends and interannual variability of forest, savanna and agricultural fires in South America. <i>Carbon Management</i> , 2013, 4, 617-638.	1.2	120
72	Planetary Opportunities: A Social Contract for Global Change Science to Contribute to a Sustainable Future. <i>BioScience</i> , 2012, 62, 603-606.	2.2	169

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73	Wildlife tourists in India's emerging economy: potential for a conservation constituency?. <i>Oryx</i> , 2012, 46, 382-390.	0.5	43
74	Assessing Patterns of Human-Wildlife Conflicts and Compensation around a Central Indian Protected Area. <i>PLoS ONE</i> , 2012, 7, e50433.	1.1	126
75	North Tropical Atlantic influence on western Amazon fire season variability. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	80
76	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	200
77	Forecasting Fire Season Severity in South America Using Sea Surface Temperature Anomalies. <i>Science</i> , 2011, 334, 787-791.	6.0	197
78	Nature-based tourism in Indian protected areas: New challenges for park management. <i>Conservation Letters</i> , 2011, 4, 137-149.	2.8	74
79	Deforestation driven by urban population growth and agricultural trade in the twenty-first century. <i>Nature Geoscience</i> , 2010, 3, 178-181.	5.4	1,070
80	From plot to landscape scale: linking tropical biodiversity measurements across spatial scales. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 153-160.	1.9	53
81	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997-2009). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11707-11735.	1.9	2,326
82	Interactions between protected areas and their surroundings in human-dominated tropical landscapes. <i>Biological Conservation</i> , 2010, 143, 2870-2880.	1.9	204
83	Conservation and management in human-dominated landscapes: Case studies from India. <i>Biological Conservation</i> , 2010, 143, 2865-2869.	1.9	54
84	Editorial: Paths of Transition/TOC/Contributes. <i>Environment</i> , 2009, 51, 1-3.	0.8	0
85	Spatial and temporal deforestation dynamics in protected and unprotected dry forests: a case study from Myanmar (Burma). <i>Biodiversity and Conservation</i> , 2009, 18, 1001-1018.	1.2	51
86	CO2 emissions from forest loss. <i>Nature Geoscience</i> , 2009, 2, 737-738.	5.4	1,095
87	Changing Drivers of Deforestation and New Opportunities for Conservation. <i>Conservation Biology</i> , 2009, 23, 1396-1405.	2.4	446
88	Fire in the Earth System. <i>Science</i> , 2009, 324, 481-484.	6.0	2,330
89	The spatial distribution and interannual variability of fire in Amazonia. <i>Geophysical Monograph Series</i> , 2009, , 43-60.	0.1	10
90	Agricultural intensification increases deforestation fire activity in Amazonia. <i>Global Change Biology</i> , 2008, 14, 2262-2275.	4.2	180

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91	Terrestrial Vegetation in the Coupled Human-Earth System: Contributions of Remote Sensing. Annual Review of Environment and Resources, 2008, 33, 369-390.	5.6	90
92	Fire-related carbon emissions from land use transitions in southern Amazonia. Geophysical Research Letters, 2008, 35, .	1.5	39
93	Climate regulation of fire emissions and deforestation in equatorial Asia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20350-20355.	3.3	336
94	Burned-Area Mapping of the Serengeti-Mara Region Using MODIS Reflectance Data. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 312-316.	1.4	43
95	LAND USE CHANGE AROUND PROTECTED AREAS: MANAGEMENT TO BALANCE HUMAN NEEDS AND ECOLOGICAL FUNCTION. , 2007, 17, 1031-1038.		355
96	Amazonia revealed: forest degradation and loss of ecosystem goods and services in the Amazon Basin. Frontiers in Ecology and the Environment, 2007, 5, 25-32.	1.9	439
97	Challenges to estimating carbon emissions from tropical deforestation. Global Change Biology, 2007, 13, 51-66.	4.2	323
98	Evaluation of ISLSCP Initiative II satellite-based land cover data sets and assessment of progress in land cover data for global modeling. Journal of Geophysical Research, 2006, 111, .	3.3	6
99	A global overview of the conservation status of tropical dry forests. Journal of Biogeography, 2006, 33, 491-505.	1.4	951
100	Model-data synthesis in terrestrial carbon observation: methods, data requirements and data uncertainty specifications. Global Change Biology, 2005, 11, 378-397.	4.2	283
101	Estimation of tree cover using MODIS data at global, continental and regional/local scales. International Journal of Remote Sensing, 2005, 26, 4359-4380.	1.3	174
102	INCREASING ISOLATION OF PROTECTED AREAS IN TROPICAL FORESTS OVER THE PAST TWENTY YEARS. , 2005, 15, 19-26.		558
103	Fire emissions from C3 and C4 vegetation and their influence on interannual variability of atmospheric CO2 and $\delta^{13}C_{CO_2}$. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	108
104	Global Consequences of Land Use. Science, 2005, 309, 570-574.	6.0	9,451
105	Detecting Long-term Global Forest Change Using Continuous Fields of Tree-Cover Maps from 8-km Advanced Very High Resolution Radiometer (AVHRR) Data for the Years 1982-1999. Ecosystems, 2004, 7, 695-716.	1.6	190
106	Observing and monitoring land use and land cover change. Geophysical Monograph Series, 2004, , 231-246.	0.1	10
107	Typological responses of ecosystems to land use change. Geophysical Monograph Series, 2004, , 337-344.	0.1	2
108	Trade-offs in land-use decisions: Towards a framework for assessing multiple ecosystem responses to land-use change. Geophysical Monograph Series, 2004, , 1-9.	0.1	18

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109	Land-use choices: balancing human needs and ecosystem function. <i>Frontiers in Ecology and the Environment</i> , 2004, 2, 249-257.	1.9	674
110	THE MODIS 500 METER GLOBAL VEGETATION CONTINUOUS FIELD PRODUCTS. , 2004, , .		5
111	Global distribution of C3and C4vegetation: Carbon cycle implications. <i>Global Biogeochemical Cycles</i> , 2003, 17, 6-1-6-14.	1.9	677
112	Texture classification of logged forests in tropical Africa using machine-learning algorithms. <i>International Journal of Remote Sensing</i> , 2003, 24, 1401-1407.	1.3	27
113	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
114	People Managing Forests: the Links Between Human Well-being and Sustainability EDITED BY CAROL J. PIERCE COLFER AND YVONNE BYRON xiii + 447 pp. 22.8 Å— 15 Å— 2 cm, ISBN 1 891853 05 8 clothbound/ISBN 1 891853 06 6 paperback, US\$ 50.00, Washington DC, USA: Resources for the Future, 2001. <i>Environmental Conservation</i> , 2002, 29, 108-114.	0.7	0
115	Human modification of the landscape and surface climate in the next fifty years. <i>Global Change Biology</i> , 2002, 8, 438-458.	4.2	171
116	A new global 1-km dataset of percentage tree cover derived from remote sensing. <i>Global Change Biology</i> , 2000, 6, 247-254.	4.2	401
117	Global land cover characterization from satellite data: from research to operational implementation?. <i>Global Ecology and Biogeography</i> , 1999, 8, 367-379.	2.7	74
118	NDVI-derived land cover classifications at a global scale. <i>International Journal of Remote Sensing</i> , 1994, 15, 3567-3586.	1.3	841