

Pieter A. Zuidema

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

6,583
citations

57631

44
h-index

66788

78
g-index

103
all docs

103
docs citations

103
times ranked

7822
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustaining conservation values in selectively logged tropical forests: the attained and the attainable. <i>Conservation Letters</i> , 2012, 5, 296-303.	2.8	439
2	No growth stimulation of tropical trees by 150 years of CO ₂ fertilization but water-use efficiency increased. <i>Nature Geoscience</i> , 2015, 8, 24-28.	5.4	348
3	Fast "slow" continuum and reproductive strategies structure plant life-history variation worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 230-235.	3.3	290
4	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021, 229, 2413-2445.	3.5	286
5	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	4.2	265
6	Demographic Threats to the Sustainability of Brazil Nut Exploitation. <i>Science</i> , 2003, 302, 2112-2114.	6.0	237
7	Relating tree growth to rainfall in Bolivian rain forests: a test for six species using tree ring analysis. <i>Oecologia</i> , 2005, 146, 1-12.	0.9	229
8	Climate is a stronger driver of tree and forest growth rates than soil and disturbance. <i>Journal of Ecology</i> , 2011, 99, 254-264.	1.9	202
9	Dendroecology in the tropics: a review. <i>Trees - Structure and Function</i> , 2011, 25, 3-16.	0.9	198
10	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
11	Demography of the Brazil nut tree (<i>Bertholletia excelsa</i>) in the Bolivian Amazon: impact of seed extraction on recruitment and population dynamics. <i>Journal of Tropical Ecology</i> , 2002, 18, 1-31.	0.5	181
12	Improved Tropical Forest Management for Carbon Retention. <i>PLoS Biology</i> , 2008, 6, e166.	2.6	174
13	A physiological production model for cocoa (<i>Theobroma cacao</i>): model presentation, validation and application. <i>Agricultural Systems</i> , 2005, 84, 195-225.	3.2	155
14	Detecting long-term growth trends using tree rings: a critical evaluation of methods. <i>Global Change Biology</i> , 2015, 21, 2040-2054.	4.2	136
15	Tropical forests and global change: filling knowledge gaps. <i>Trends in Plant Science</i> , 2013, 18, 413-419.	4.3	130
16	Forest fragmentation and biodiversity: the case for intermediate-sized conservation areas. <i>Environmental Conservation</i> , 1996, 23, 290-297.	0.7	125
17	Temperature and rainfall strongly drive temporal growth variation in Asian tropical forest trees. <i>Oecologia</i> , 2014, 174, 1449-1461.	0.9	122
18	Making conservation research more relevant for conservation practitioners. <i>Biological Conservation</i> , 2012, 153, 164-168.	1.9	111

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19	The use of tree rings in tropical forest management: Projecting timber yields of four Bolivian tree species. <i>Forest Ecology and Management</i> , 2006, 226, 256-267.	1.4	101
20	Integral Projection Models for trees: a new parameterization method and a validation of model output. <i>Journal of Ecology</i> , 2010, 98, 345-355.	1.9	94
21	Loss of animal seed dispersal increases extinction risk in a tropical tree species due to pervasive negative density dependence across life stages. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142095.	1.2	93
22	Potential of tree-ring analysis in a wet tropical forest: A case study on 22 commercial tree species in Central Africa. <i>Forest Ecology and Management</i> , 2014, 323, 65-78.	1.4	89
23	Climate-growth analysis for a Mexican dry forest tree shows strong impact of sea surface temperatures and predicts future growth declines. <i>Global Change Biology</i> , 2010, 16, 2001-2012.	4.2	86
24	Livelihood strategies and forest dependence: New insights from Bolivian forest communities. <i>Forest Policy and Economics</i> , 2013, 26, 12-21.	1.5	85
25	Detecting forest response to droughts with global observations of vegetation water content. <i>Global Change Biology</i> , 2021, 27, 6005-6024.	4.2	73
26	TESTING SUSTAINABILITY BY PROSPECTIVE AND RETROSPECTIVE DEMOGRAPHIC ANALYSES: EVALUATION FOR PALM LEAF HARVEST. , 2007, 17, 118-128.		67
27	Attaining the canopy in dry and moist tropical forests: strong differences in tree growth trajectories reflect variation in growing conditions. <i>Oecologia</i> , 2010, 163, 485-496.	0.9	67
28	Autocorrelated growth of tropical forest trees: Unraveling patterns and quantifying consequences. <i>Forest Ecology and Management</i> , 2006, 237, 179-190.	1.4	66
29	Time-dependent effects of climate and drought on tree growth in a Neotropical dry forest: Short-term tolerance vs. long-term sensitivity. <i>Agricultural and Forest Meteorology</i> , 2014, 188, 13-23.	1.9	65
30	Tropical tree rings reveal preferential survival of fast-growing juveniles and increased juvenile growth rates over time. <i>New Phytologist</i> , 2010, 185, 759-769.	3.5	63
31	Limitations to sustainable frankincense production: blocked regeneration, high adult mortality and declining populations. <i>Journal of Applied Ecology</i> , 2012, 49, 164-173.	1.9	62
32	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515.	5.8	62
33	Do Persistently Fast-Growing Juveniles Contribute Disproportionately to Population Growth? A New Analysis Tool for Matrix Models and Its Application to Rainforest Trees. <i>American Naturalist</i> , 2009, 174, 709-719.	1.0	61
34	Stable isotopes in tropical tree rings: theory, methods and applications. <i>Functional Ecology</i> , 2017, 31, 1674-1689.	1.7	55
35	Evaluating the annual nature of juvenile rings in Bolivian tropical rainforest trees. <i>Trees - Structure and Function</i> , 2011, 25, 17-27.	0.9	54
36	Integrating vital rate variability into perturbation analysis: an evaluation for matrix population models of six plant species. <i>Journal of Ecology</i> , 2001, 89, 995-1005.	1.9	52

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37	Strong habitat preference of a tropical rain forest tree does not imply large differences in population dynamics across habitats. <i>Journal of Ecology</i> , 2007, 95, 332-342.	1.9	51
38	Tree bark as a non-timber forest product: The effect of bark collection on population structure and dynamics of <i>Garcinia lucida</i> Vesque. <i>Forest Ecology and Management</i> , 2007, 240, 1-12.	1.4	50
39	Strict mast fruiting for a tropical dipterocarp tree: a demographic cost-benefit analysis of delayed reproduction and seed predation. <i>Journal of Ecology</i> , 2011, 99, 1033-1044.	1.9	50
40	Tree growth variation in the tropical forest: understanding effects of temperature, rainfall and CO_2 . <i>Global Change Biology</i> , 2015, 21, 2749-2761.	4.2	50
41	Long-term physiological and growth responses of Himalayan fir to environmental change are mediated by mean climate. <i>Global Change Biology</i> , 2020, 26, 1778-1794.	4.2	49
42	Revisiting the "cornerstone of Amazonian conservation": a socioecological assessment of Brazil nut exploitation. <i>Biodiversity and Conservation</i> , 2017, 26, 2007-2027.	1.2	48
43	Does biomass growth increase in the largest trees? Flaws, fallacies and alternative analyses. <i>Functional Ecology</i> , 2017, 31, 568-581.	1.7	48
44	Incorporating persistent tree growth differences increases estimates of tropical timber yield. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 302-306.	1.9	47
45	No evidence for consistent long-term growth stimulation of 13 tropical tree species: results from tree-ring analysis. <i>Global Change Biology</i> , 2015, 21, 3762-3776.	4.2	47
46	Tropical forest warming: looking backwards for more insights. <i>Trends in Ecology and Evolution</i> , 2012, 27, 193-194.	4.2	46
47	Joint effects of climate, tree size, and year on annual tree growth derived from tree-ring records of ten globally distributed forests. <i>Global Change Biology</i> , 2022, 28, 245-266.	4.2	46
48	A Wood Biology Agenda to Support Global Vegetation Modelling. <i>Trends in Plant Science</i> , 2018, 23, 1006-1015.	4.3	42
49	Combining dendrochronology and matrix modelling in demographic studies: An evaluation for <i>Juniperus procera</i> in Ethiopia. <i>Forest Ecology and Management</i> , 2005, 216, 317-330.	1.4	39
50	Effects of denudation and burial on growth and reproduction of <i>Artemisia ordosica</i> in Mu Us sandland. <i>Ecological Research</i> , 2010, 25, 655-661.	0.7	39
51	Frankincense in peril. <i>Nature Sustainability</i> , 2019, 2, 602-610.	11.5	39
52	Tropical tree growth driven by dry-season climate variability. <i>Nature Geoscience</i> , 2022, 15, 269-276.	5.4	38
53	Conservation prospects for threatened Vietnamese tree species: results from a demographic study. <i>Population Ecology</i> , 2008, 50, 227-237.	0.7	37
54	Seedlings of the semi-shrub <i>Artemisia ordosica</i> are resistant to moderate wind denudation and sand burial in Mu Us sandland, China. <i>Trees - Structure and Function</i> , 2010, 24, 515-521.	0.9	37

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55	Understanding the effects of a new grazing policy: the impact of seasonal grazing on shrub demography in the Mongolian steppe. <i>Journal of Applied Ecology</i> , 2013, 50, 1377-1386.	1.9	37
56	Understanding recruitment failure in tropical tree species: Insights from a tree-ring study. <i>Forest Ecology and Management</i> , 2014, 312, 108-116.	1.4	37
57	Developing forensic tools for an African timber: Regional origin is revealed by genetic characteristics, but not by isotopic signature. <i>Biological Conservation</i> , 2018, 220, 262-271.	1.9	36
58	Resilience of palm populations to disturbance is determined by interactive effects of fire, herbivory and harvest. <i>Journal of Ecology</i> , 2015, 103, 1032-1043.	1.9	35
59	Explaining biomass growth of tropical canopy trees: the importance of sapwood. <i>Oecologia</i> , 2015, 177, 1145-1155.	0.9	30
60	Recent CO ₂ rise has modified the sensitivity of tropical tree growth to rainfall and temperature. <i>Global Change Biology</i> , 2020, 26, 4028-4041.	4.2	30
61	A monocarpic tree species in a polycarpic world: how can <i>Tachigali vasquezii</i> maintain itself so successfully in a tropical rain forest community?. <i>Journal of Ecology</i> , 2005, 93, 268-278.	1.9	28
62	Strong persistent growth differences govern individual performance and population dynamics in a tropical forest understorey palm. <i>Journal of Ecology</i> , 2012, 100, 1224-1232.	1.9	25
63	Disturbance History of a Seasonal Tropical Forest in Western Thailand: A Spatial Dendroecological Analysis. <i>Biotropica</i> , 2013, 45, 578-586.	0.8	24
64	Salinity drives growth dynamics of the mangrove tree <i>Sonneratia apetala</i> Buch.-Ham. in the Sundarbans, Bangladesh. <i>Dendrochronologia</i> , 2020, 62, 125711.	1.0	24
65	Timber yield projections for tropical tree species: The influence of fast juvenile growth on timber volume recovery. <i>Forest Ecology and Management</i> , 2010, 259, 2292-2300.	1.4	21
66	Understanding causes of tree growth response to gap formation: $\delta^{13}C$ -values in tree rings reveal a predominant effect of light. <i>Trees - Structure and Function</i> , 2014, 28, 439-448.	0.9	21
67	The fate of populations of <i>Euterpe oleracea</i> harvested for palm heart in Colombia. <i>Forest Ecology and Management</i> , 2014, 318, 274-284.	1.4	20
68	Tree-ring $\delta^{18}O$ in African mahogany (<i>Entandrophragma utile</i>) records regional precipitation and can be used for climate reconstructions. <i>Global and Planetary Change</i> , 2015, 127, 58-66.	1.6	20
69	Climate-driven, but dynamic and complex? A reconciliation of competing hypotheses for species distributions. <i>Ecology Letters</i> , 2022, 25, 38-51.	3.0	20
70	Learning from the past: Trends and dynamics in livelihoods of Bolivian forest communities. <i>Environmental Science and Policy</i> , 2014, 40, 36-48.	2.4	17
71	Chemical differentiation of Bolivian <i>Cedrela</i> species as a tool to trace illegal timber trade. <i>Forestry</i> , 2018, 91, 603-613.	1.2	17
72	^{15}N in tree rings as a bio-indicator of changing nitrogen cycling in tropical forests: an evaluation at three sites using two sampling methods. <i>Frontiers in Plant Science</i> , 2015, 6, 229.	1.7	16

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73	Using tree-ring data to improve timber-yield projections for African wet tropical forest tree species. <i>Forest Ecology and Management</i> , 2017, 400, 396-407.	1.4	16
74	Sapwood allocation in tropical trees: a test of hypotheses. <i>Functional Plant Biology</i> , 2015, 42, 697.	1.1	13
75	Mobile dune fixation by a fast-growing clonal plant: a full life-cycle analysis. <i>Scientific Reports</i> , 2015, 5, 8935.	1.6	12
76	Diverse local regulatory responses to a new forestry regime in forest communities in the Bolivian Amazon. <i>Land Use Policy</i> , 2014, 39, 224-232.	2.5	11
77	Long-term growth patterns of juvenile trees from a Bolivian tropical moist forest: shifting investments in diameter growth and height growth. <i>Journal of Tropical Ecology</i> , 2015, 31, 519-529.	0.5	11
78	What drives the vital rates of secondary hemiepiphytes? A first assessment for three species of <i>Heteropsis</i> (Araceae) in the Colombian Amazon. <i>Journal of Tropical Ecology</i> , 2015, 31, 251-265.	0.5	11
79	Trait Acclimation Mitigates Mortality Risks of Tropical Canopy Trees under Global Warming. <i>Frontiers in Plant Science</i> , 2016, 7, 607.	1.7	11
80	The role of demographic compensation in stabilising marginal tree populations in North America. <i>Ecology Letters</i> , 2022, 25, 1676-1689.	3.0	11
81	The Quest for a Suitable Host: Size Distributions of Host Trees and Secondary Hemiepiphytes Search Strategy. <i>Biotropica</i> , 2012, 44, 19-26.	0.8	10
82	Trends in tropical tree growth: reanalyses confirm earlier findings. <i>Global Change Biology</i> , 2017, 23, 1761-1762.	4.2	10
83	Towards smarter harvesting from natural palm populations by sparing the individuals that contribute most to population growth or productivity. <i>Journal of Applied Ecology</i> , 2018, 55, 1682-1691.	1.9	9
84	Interannual temperature variability is a principal driver of low-frequency fluctuations in marine fish populations. <i>Communications Biology</i> , 2022, 5, 28.	2.0	9
85	Recruitment subsidies support tree subpopulations in non-preferred tropical forest habitats. <i>Journal of Ecology</i> , 2010, 98, 636-644.	1.9	8
86	Variation in ploidy level and phenology can result in large and unexpected differences in demography and climatic sensitivity between closely related ferns. <i>American Journal of Botany</i> , 2012, 99, 1375-1387.	0.8	8
87	Diameter Growth of Juvenile Trees after Gap Formation in a Bolivian Rain Forest: Responses are Strongly Species-specific and Size-dependent. <i>Biotropica</i> , 2012, 44, 312-320.	0.8	8
88	Demography and sustainable management of two fiber-producing <i>Astrocaryum</i> palms in Colombia. <i>Biotropica</i> , 2016, 48, 598-607.	0.8	7
89	Seeing the forest through the trees: how tree-level measurements can help understand forest dynamics. <i>New Phytologist</i> , 2022, 234, 1544-1546.	3.5	6
90	The New Face of Debt-Peonage in the Bolivian Amazon: Social Networks and Bargaining Instruments. <i>Human Ecology</i> , 2014, 42, 541-549.	0.7	4

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91	The life cycle carbon balance of selective logging in tropical forests of Costa Rica. <i>Journal of Industrial Ecology</i> , 2020, 24, 534-547.	2.8	4
92	Driving factors of forest growth: a reply to Ferry <i>et al.</i> (2012). <i>Journal of Ecology</i> , 2012, 100, 1069-1073.	1.9	3
93	No second chances: demography from the forest floor to the canopy and back again. <i>Journal of Ecology</i> , 2015, 103, 1498-1508.	1.9	3
94	Explaining long-term inter-individual growth variation in plant populations: persistence of abiotic factors matters. <i>Oecologia</i> , 2017, 185, 663-674.	0.9	3
95	Tropical timber tracing and stable isotopes: A response to Horacek <i>et al.</i> . <i>Biological Conservation</i> , 2018, 226, 335-336.	1.9	3
96	Heritability of growth and leaf loss compensation in a long-lived tropical understorey palm. <i>PLoS ONE</i> , 2019, 14, e0209631.	1.1	3
97	Ring width and vessel features of the mangrove <i>Excoecaria agallocha</i> L. depend on salinity in the Sundarbans, Bangladesh. <i>Dendrochronologia</i> , 2021, 68, 125857.	1.0	3
98	Diversity Bears Fruit: Evaluating the Economic Potential of Undervalued Fruits for an Agroecological Restoration Approach in the Peruvian Amazon. <i>Sustainability</i> , 2021, 13, 4582.	1.6	2
99	A More Realistic Portrayal of Tropical Forestry: Response to Kormos and Zimmerman. <i>Conservation Letters</i> , 2014, 7, 145-146.	2.8	1
100	Matrix population models indicate that bark harvest of two medicinal plants in Uganda's Bwindi Impenetrable National Park is sustainable. <i>African Journal of Ecology</i> , 2017, 55, 30-36.	0.4	0