

Michiel van Breugel

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

7,482
citations

109321

35
h-index

110387

64
g-index

67
all docs

67
docs citations

67
times ranked

9619
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188. | 9.5 | 1,038 |
| 2 | Biomass resilience of Neotropical secondary forests. <i>Nature</i> , 2016, 530, 211-214. | 27.8 | 763 |
| 3 | Rates of change in tree communities of secondary Neotropical forests following major disturbances. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 273-289. | 4.0 | 441 |
| 4 | Carbon sequestration potential of second-growth forest regeneration in the Latin American tropics. <i>Science Advances</i> , 2016, 2, e1501639. | 10.3 | 423 |
| 5 | Beyond Reserves: A Research Agenda for Conserving Biodiversity in Human-Modified Tropical Landscapes. <i>Biotropica</i> , 2009, 41, 142-153. | 1.6 | 417 |
| 6 | Integrating Agricultural Landscapes with Biodiversity Conservation in the Mesoamerican Hotspot. <i>Conservation Biology</i> , 2008, 22, 8-15. | 4.7 | 382 |
| 7 | A universal airborne LiDAR approach for tropical forest carbon mapping. <i>Oecologia</i> , 2012, 168, 1147-1160. | 2.0 | 317 |
| 8 | Biodiversity recovery of Neotropical secondary forests. <i>Science Advances</i> , 2019, 5, eaau3114. | 10.3 | 291 |
| 9 | Key role of symbiotic dinitrogen fixation in tropical forest secondary succession. <i>Nature</i> , 2013, 502, 224-227. | 27.8 | 287 |
| 10 | Successional dynamics in Neotropical forests are as uncertain as they are predictable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8013-8018. | 7.1 | 272 |
| 11 | Estimating carbon stock in secondary forests: Decisions and uncertainties associated with allometric biomass models. <i>Forest Ecology and Management</i> , 2011, 262, 1648-1657. | 3.2 | 203 |
| 12 | Multidimensional tropical forest recovery. <i>Science</i> , 2021, 374, 1370-1376. | 12.6 | 165 |
| 13 | Community dynamics during early secondary succession in Mexican tropical rain forests. <i>Journal of Tropical Ecology</i> , 2006, 22, 663-674. | 1.1 | 125 |
| 14 | BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445. | 3.2 | 122 |
| 15 | Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. <i>Nature Ecology and Evolution</i> , 2019, 3, 928-934. | 7.8 | 120 |
| 16 | Recovery of saturated hydraulic conductivity under secondary succession on former pasture in the humid tropics. <i>Forest Ecology and Management</i> , 2011, 261, 1634-1642. | 3.2 | 113 |
| 17 | Changing drivers of species dominance during tropical forest succession. <i>Functional Ecology</i> , 2014, 28, 1052-1058. | 3.6 | 111 |
| 18 | Functional diversity changes during tropical forest succession. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2012, 14, 89-96. | 2.7 | 110 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Legume abundance along successional and rainfall gradients in Neotropical forests. <i>Nature Ecology and Evolution</i> , 2018, 2, 1104-1111. | 7.8 | 107 |
| 20 | High-fidelity national carbon mapping for resource management and REDD+. <i>Carbon Balance and Management</i> , 2013, 8, 7. | 3.2 | 104 |
| 21 | Controls over aboveground forest carbon density on Barro Colorado Island, Panama. <i>Biogeosciences</i> , 2011, 8, 1615-1629. | 3.3 | 100 |
| 22 | Early growth and survival of 49 tropical tree species across sites differing in soil fertility and rainfall in Panama. <i>Forest Ecology and Management</i> , 2011, 261, 1580-1589. | 3.2 | 95 |
| 23 | Species Dynamics During Early Secondary Forest Succession: Recruitment, Mortality and Species Turnover. <i>Biotropica</i> , 2007, 39, 610-619. | 1.6 | 94 |
| 24 | Succession of Ephemeral Secondary Forests and Their Limited Role for the Conservation of Floristic Diversity in a Human-Modified Tropical Landscape. <i>PLoS ONE</i> , 2013, 8, e82433. | 2.5 | 93 |
| 25 | Phylogenetic community structure during succession: Evidence from three Neotropical forest sites. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2012, 14, 79-87. | 2.7 | 89 |
| 26 | Soil nutrients and dispersal limitation shape compositional variation in secondary tropical forests across multiple scales. <i>Journal of Ecology</i> , 2019, 107, 566-581. | 4.0 | 88 |
| 27 | Soil carbon dynamics under young tropical secondary forests on former pastures – A case study from Panama. <i>Forest Ecology and Management</i> , 2011, 261, 1625-1633. | 3.2 | 52 |
| 28 | Phosphatase activity and nitrogen fixation reflect species differences, not nutrient trading or nutrient balance, across tropical rainforest trees. <i>Ecology Letters</i> , 2018, 21, 1486-1495. | 6.4 | 51 |
| 29 | The Potential of Tree Rings for the Study of Forest Succession in Southern Mexico. <i>Biotropica</i> , 2009, 41, 186-195. | 1.6 | 50 |
| 30 | 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. | 4.0 | 50 |
| 31 | Environmental gradients and the evolution of successional habitat specialization: a test case with 14 Neotropical forest sites. <i>Journal of Ecology</i> , 2015, 103, 1276-1290. | 4.0 | 50 |
| 32 | Changing gears during succession: shifting functional strategies in young tropical secondary forests. <i>Oecologia</i> , 2015, 179, 293-305. | 2.0 | 50 |
| 33 | Rapid Liana Colonization along a Secondary Forest Chronosequence. <i>Biotropica</i> , 2015, 47, 672-680. | 1.6 | 42 |
| 34 | The relative importance of above- versus belowground competition for tree growth during early succession of a tropical moist forest. <i>Plant Ecology</i> , 2012, 213, 25-34. | 1.6 | 39 |
| 35 | Environmental filtering limits functional diversity during succession in a seasonally wet tropical secondary forest. <i>Journal of Vegetation Science</i> , 2018, 29, 511-520. | 2.2 | 38 |
| 36 | Demographic Drivers of Aboveground Biomass Dynamics During Secondary Succession in Neotropical Dry and Wet Forests. <i>Ecosystems</i> , 2017, 20, 340-353. | 3.4 | 37 |

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|----|--|------|-----------|
| 37 | Functional recovery of secondary tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 34 |
| 38 | Changes in rainfall interception along a secondary forest succession gradient in lowland Panama. Hydrology and Earth System Sciences, 2013, 17, 4659-4670. | 4.9 | 33 |
| 39 | Survival and growth of five Neotropical timber species in monocultures and mixtures. Forest Ecology and Management, 2017, 403, 1-11. | 3.2 | 33 |
| 40 | Tropical carbon sink accelerated by symbiotic dinitrogen fixation. Nature Communications, 2019, 10, 5637. | 12.8 | 33 |
| 41 | Local and regional environmental variation influences the growth of tropical trees in selection trials in the Republic of Panama. Forest Ecology and Management, 2010, 260, 12-21. | 3.2 | 32 |
| 42 | Liana effects on biomass dynamics strengthen during secondary forest succession. Ecology, 2017, 98, 1062-1070. | 3.2 | 31 |
| 43 | Tree plantations on farms: Evaluating growth and potential for success. Forest Ecology and Management, 2011, 261, 1675-1683. | 3.2 | 30 |
| 44 | Demographic drivers of functional composition dynamics. Ecology, 2017, 98, 2743-2750. | 3.2 | 30 |
| 45 | Legume-microbiome interactions unlock mineral nutrients in regrowing tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 30 |
| 46 | Edaphic factors and initial conditions influence successional trajectories of early regenerating tropical dry forests. Journal of Ecology, 2020, 108, 160-174. | 4.0 | 28 |
| 47 | Foliar herbivory and leaf traits of five native tree species in a young plantation of Central Panama. New Forests, 2012, 43, 69-87. | 1.7 | 27 |
| 48 | Nitrogen fixer abundance has no effect on biomass recovery during tropical secondary forest succession. Journal of Ecology, 2018, 106, 1415-1427. | 4.0 | 26 |
| 49 | Tallo: A global tree allometry and crown architecture database. Global Change Biology, 2022, 28, 5254-5268. | 9.5 | 24 |
| 50 | A hyperspectral image can predict tropical tree growth rates in single-species stands. Ecological Applications, 2016, 26, 2369-2375. | 3.8 | 18 |
| 51 | Effect of microsite quality and species composition on tree growth: A semi-empirical modeling approach. Forest Ecology and Management, 2019, 432, 534-545. | 3.2 | 17 |
| 52 | Effective height development of four co-occurring species in the gap-phase regeneration of Douglas fir monocultures under nature-oriented conversion. Forest Ecology and Management, 2007, 238, 189-198. | 3.2 | 16 |
| 53 | Functional traits that moderate tropical tree recruitment during post-windstorm secondary succession. Journal of Ecology, 2020, 108, 1322-1333. | 4.0 | 15 |
| 54 | Lianas reduce biomass accumulation in early successional tropical forests. Ecology, 2020, 101, e02989. | 3.2 | 15 |

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|----|--|------|-----------|
| 55 | Deforestation scenarios show the importance of secondary forest for meeting Panama's carbon goals. <i>Landscape Ecology</i> , 2022, 37, 673-694. | 4.2 | 13 |
| 56 | Successional syndromes of saplings in tropical secondary forests emerge from environment-dependent trait-demography relationships. <i>Ecology Letters</i> , 2021, 24, 1776-1787. | 6.4 | 12 |
| 57 | Strong floristic distinctiveness across Neotropical successional forests. <i>Science Advances</i> , 2022, 8, . | 10.3 | 10 |
| 58 | Soil and light effects on the sapling performance of the shade-tolerant species <i>Brosimum alicastrum</i> (Moraceae) in a Mexican tropical rain forest. <i>Journal of Tropical Ecology</i> , 2008, 24, 629-637. | 1.1 | 8 |
| 59 | Short-term responses in a secondary tropical forest after a severe windstorm event. <i>Journal of Vegetation Science</i> , 2019, 30, 720-731. | 2.2 | 6 |
| 60 | Lianas do not reduce tree biomass accumulation in young successional tropical dry forests. <i>Oecologia</i> , 2021, 195, 1019-1029. | 2.0 | 6 |
| 61 | Towards effective reforestation: growth and commercial value of four commonly planted tropical timber species on infertile soils in Panama. <i>New Forests</i> , 2023, 54, 125-142. | 1.7 | 6 |
| 62 | Framework Species Approach Proves Robust in Restoring Forest on Fire Prone Invasive Grass: A Case Study from Panama. <i>Journal of Sustainable Forestry</i> , 2021, 40, 197-215. | 1.4 | 5 |
| 63 | Influence of abiotic drivers on 1-year seedling survival of six mangrove species in Southeast Asia. <i>Restoration Ecology</i> , 2022, 30, . | 2.9 | 5 |
| 64 | Do lianas shape ant communities in an early successional tropical forest?. <i>Biotropica</i> , 2019, 51, 885-893. | 1.6 | 4 |
| 65 | Lianas Reduce Biomass Accumulation in Early Successional Tropical Forests. <i>Bulletin of the Ecological Society of America</i> , 2020, 101, e01673. | 0.2 | 0 |