

# Tommaso Jucker

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

6,404  
citations

117625  
34  
h-index

106344  
65  
g-index

73  
all docs

73  
docs citations

73  
times ranked

8398  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Deciphering the fingerprint of disturbance on the three-dimensional structure of the world's forests. <i>New Phytologist</i> , 2022, 233, 612-617.  | 7.3  | 32        |
| 2  | Climatic conditions, not above- and belowground resource availability and uptake capacity, mediate tree diversity effects on productivity and stability. <i>Science of the Total Environment</i> , 2022, 812, 152560.           | 8.0  | 8         |
| 3  | The number of tree species on Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .  | 7.1  | 86        |
| 4  | Invasion dynamics and potential future spread of sea spurge across Australia's coastal dunes. <i>Journal of Biogeography</i> , 2022, 49, 378-390.   | 3.0  | 3         |
| 5  | Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.  | 9.5  | 113       |
| 6  | Local-scale temperature gradients driven by human disturbance shape the physiological and morphological traits of dung beetle communities in a Bornean oil palm forest mosaic. <i>Functional Ecology</i> , 2022, 36, 1655-1667. | 3.6  | 7         |
| 7  | Tallo: A global tree allometry and crown architecture database. <i>Global Change Biology</i> , 2022, 28, 5254-5268.   | 9.5  | 24        |
| 8  | Riparian buffers act as microclimatic refugia in oil palm landscapes. <i>Journal of Applied Ecology</i> , 2021, 58, 431-442.  | 4.0  | 27        |
| 9  | Leech blood-meal invertebrate-derived DNA reveals differences in Bornean mammal diversity across habitats. <i>Molecular Ecology</i> , 2021, 30, 3299-3312.  | 3.9  | 24        |
| 10 | Pantropical variability in tree crown allometry. <i>Global Ecology and Biogeography</i> , 2021, 30, 459-475.  | 5.8  | 27        |
| 11 | Few large trees, rather than plant diversity and composition, drive the above-ground biomass stock and dynamics of temperate forests in northeast China. <i>Forest Ecology and Management</i> , 2021, 481, 118698.              | 3.2  | 28        |
| 12 | Forest microclimates and climate change: Importance, drivers and future research agenda. <i>Global Change Biology</i> , 2021, 27, 2279-2297.  | 9.5  | 330       |
| 13 | Recovery of logged forest fragments in a human-modified tropical landscape during the 2015-16 El Niño. <i>Nature Communications</i> , 2021, 12, 1526.   | 12.8 | 31        |
| 14 | Unifying the concepts of stability and resilience in ecology. <i>Journal of Ecology</i> , 2021, 109, 3114-3132.   | 4.0  | 68        |
| 15 | The impact of logging on vertical canopy structure across a gradient of tropical forest degradation intensity in Borneo. <i>Journal of Applied Ecology</i> , 2021, 58, 1764-1775.   | 4.0  | 26        |
| 16 | Steps to diversify priority-setting research in conservation: reflections on de Gracia 2021. <i>Conservation Biology</i> , 2021, 35, 1324-1326.   | 4.7  | 0         |
| 17 | Tree species diversity enhances plant-soil interactions in a temperate forest in northeast China. <i>Forest Ecology and Management</i> , 2021, 491, 119160.   | 3.2  | 10        |
| 18 | Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021, 260, 108849.  | 4.1  | 71        |

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|----|---|------|-----------|
| 19 | Multi-platform LiDAR approach for detecting coarse woody debris in a landscape with varied ground cover. <i>International Journal of Remote Sensing</i> , 2021, 42, 9324-9350.  | 2.9  | 4         |
| 20 | Imaging spectroscopy reveals the effects of topography and logging on the leaf chemistry of tropical forest canopy trees. <i>Global Change Biology</i> , 2020, 26, 989-1002.  | 9.5  | 37        |
| 21 | Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12192-12200.          | 7.1  | 140       |
| 22 | Developing effective management solutions for controlling stinking passionflower ( <i>Passiflora</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627<br>Invasions, 2020, 22, 2737-2748.  | 2.4  | 2         |
| 23 | Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020, 579, 80-87.  | 27.8 | 439       |
| 24 | Good things take time—Diversity effects on tree growth shift from negative to positive during stand development in boreal forests. <i>Journal of Ecology</i> , 2020, 108, 2198-2211.  | 4.0  | 21        |
| 25 | Above- and below-ground biodiversity jointly regulate temperate forest multifunctionality along a local-scale environmental gradient. <i>Journal of Ecology</i> , 2020, 108, 2012-2024.   | 4.0  | 74        |
| 26 | A Research Agenda for Microclimate Ecology in Human-Modified Tropical Forests. <i>Frontiers in Forests and Global Change</i> , 2020, 2, .   | 2.3  | 33        |
| 27 | Historical context, current status and management priorities for introduced Asian house geckos at Ashmore Reef, north-western Australia. <i>BiolInvasions Records</i> , 2020, 9, 408-420.   | 1.1  | 0         |
| 28 | Comparison of TLS and ULS Data for Wildlife Habitat Assessments in Temperate Woodlands. , 2020, , .   |      | 3         |
| 29 | Reconciling the contribution of environmental and stochastic structuring of tropical forest diversity through the lens of imaging spectroscopy. <i>Ecology Letters</i> , 2019, 22, 1608-1619.                                       | 6.4  | 9         |
| 30 | Aerial photography and dendrochronology as tools for recreating invasion histories: do they work for bitou bush ( <i>Chrysanthemoides monilifera</i> subsp. <i>rotundata</i> )?. <i>Biological Invasions</i> , 2019, 21, 2983-2996. | 2.4  | 3         |
| 31 | How do trees respond to species mixing in experimental compared to observational studies?. <i>Ecology and Evolution</i> , 2019, 9, 11254-11265.   | 1.9  | 8         |
| 32 | Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , 2019, 569, 404-408.  | 27.8 | 371       |
| 33 | Strength in Numbers: Combining Multi-Source Remotely Sensed Data to Model Plant Invasions in Coastal Dune Ecosystems. <i>Remote Sensing</i> , 2019, 11, 275.  | 4.0  | 8         |
| 34 | Multiple abiotic and biotic pathways shape biomass demographic processes in temperate forests. <i>Ecology</i> , 2019, 100, e02650.  | 3.2  | 66        |
| 35 | Characterizing forest carbon dynamics using multi-temporal lidar data. <i>Remote Sensing of Environment</i> , 2019, 224, 412-420.   | 11.0 | 35        |
| 36 | Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019, 56, 733-744.   | 4.0  | 58        |

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|----|--|------|-----------|
| 37 | Topography shapes the structure, composition and function of tropical forest landscapes. <i>Ecology Letters</i> , 2018, 21, 989-1000.  | 6.4  | 215       |
| 38 | Mapped aboveground carbon stocks to advance forest conservation and recovery in Malaysian Borneo. <i>Biological Conservation</i> , 2018, 217, 289-310.   | 4.1  | 91        |
| 39 | Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018, 21, 31-42.   | 6.4  | 74        |
| 40 | Extreme and Highly Heterogeneous Microclimates in Selectively Logged Tropical Forests. <i>Frontiers in Forests and Global Change</i> , 2018, 1, .  | 2.3  | 37        |
| 41 | Canopy structure and topography jointly constrain the microclimate of humanâ€modified tropical landscapes. <i>Global Change Biology</i> , 2018, 24, 5243-5258.   | 9.5  | 158       |
| 42 | Riparian reserves help protect forest bird communities in oil palm dominated landscapes. <i>Journal of Applied Ecology</i> , 2018, 55, 2744-2755.  | 4.0  | 53        |
| 43 | Estimating aboveground carbon density and its uncertainty in Borneo's structurally complex tropical forests using airborne laser scanning. <i>Biogeosciences</i> , 2018, 15, 3811-3830.  | 3.3  | 47        |
| 44 | Tenâ€year assessment of the 100 priority questions for global biodiversity conservation. <i>Conservation Biology</i> , 2018, 32, 1457-1463.  | 4.7  | 19        |
| 45 | Area-based vs tree-centric approaches to mapping forest carbon in Southeast Asian forests from airborne laser scanning data. <i>Remote Sensing of Environment</i> , 2017, 194, 77-88.  | 11.0 | 142       |
| 46 | Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017, 20, 1414-1426.  | 6.4  | 244       |
| 47 | Linking plant communities on land and at sea: The effects of <i>Posidonia oceanica</i> wrack on the structure of dune vegetation. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 184, 30-36.  | 2.1  | 29        |
| 48 | Allometric equations for integrating remote sensing imagery into forest monitoring programmes. <i>Global Change Biology</i> , 2017, 23, 177-190.   | 9.5  | 254       |
| 49 | Detecting the fingerprint of drought across Europeâ€™s forests: do carbon isotope ratios and stem growth rates tell similar stories?. <i>Forest Ecosystems</i> , 2017, 4, .  | 3.1  | 19        |
| 50 | Drivers of aboveground wood production in a lowland tropical forest of West Africa: teasing apart the roles of tree density, tree diversity, soil phosphorus, and historical logging. <i>Ecology and Evolution</i> , 2016, 6, 4004-4017. | 1.9  | 34        |
| 51 | Temporal changes in the vegetation of Italian coastal dunes: identifying winners and losers through the lens of functional traits. <i>Journal of Applied Ecology</i> , 2016, 53, 1533-1542.  | 4.0  | 15        |
| 52 | Jack-of-all-trades effects drive biodiversityâ€™ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.   | 12.8 | 185       |
| 53 | Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016, 354, .   | 12.6 | 864       |
| 54 | Aboveground biomass estimation in tropical forests at single tree level with ALS data. , 2016, , .   |      | 1         |

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|----|---|------|-----------|
| 55 | Climate modulates the effects of tree diversity on forest productivity. <i>Journal of Ecology</i> , 2016, 104, 388-398.   | 4.0  | 109       |
| 56 | Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3557-3562.                                | 7.1  | 196       |
| 57 | Crown plasticity enables trees to optimize canopy packing in mixed-species forests. <i>Functional Ecology</i> , 2015, 29, 1078-1086.  | 3.6  | 279       |
| 58 | Does Drought Influence the Relationship Between Biodiversity and Ecosystem Functioning in Boreal Forests?. <i>Ecosystems</i> , 2014, 17, 394-404.   | 3.4  | 94        |
| 59 | Wood production response to climate change will depend critically on forest composition and structure. <i>Global Change Biology</i> , 2014, 20, 3632-3645.  | 9.5  | 87        |
| 60 | Stabilizing effects of diversity on aboveground wood production in forest ecosystems: linking patterns and processes. <i>Ecology Letters</i> , 2014, 17, 1560-1569.   | 6.4  | 232       |
| 61 | Competition for light and water play contrasting roles in driving diversity-productivity relationships in Iberian forests. <i>Journal of Ecology</i> , 2014, 102, 1202-1213.  | 4.0  | 174       |
| 62 | Going beyond taxonomic diversity: deconstructing biodiversity patterns reveals the true cost of iceplant invasion. <i>Diversity and Distributions</i> , 2013, 19, 1566-1577.  | 4.1  | 51        |
| 63 | A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291. | 2.7  | 179       |
| 64 | Response to Comment on "Plant Species Richness and Ecosystem Multifunctionality in Global Drylands". <i>Science</i> , 2012, 337, 155-155.   | 12.6 | 8         |
| 65 | Comment on "Plant Species Richness and Ecosystem Multifunctionality in Global Drylands". <i>Science</i> , 2012, 337, 155-155.   | 12.6 | 26        |
| 66 | Patterns of plant community assembly in invaded and non-invaded communities along a natural environmental gradient. <i>Journal of Vegetation Science</i> , 2012, 23, 483-494.   | 2.2  | 60        |
| 67 | Effects of Trampling Limitation on Coastal Dune Plant Communities. <i>Environmental Management</i> , 2012, 49, 534-542.   | 2.7  | 103       |
| 68 | Assessing the effects of <i>Carpobrotus</i> invasion on coastal dune soils. Does the nature of the invaded habitat matter?. <i>Community Ecology</i> , 2011, 12, 234-240.   | 0.9  | 55        |