# Susan K Wiser

List of Publications by Year
in descending order



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|---|---|---|---|
| 85 papers | 6,460 citations | 109321 35 h-index | 71685 76 g-index |
| 87 all docs | 87 docs citations | 87 times ranked | 10327 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Positive biodiversity-productivity relationship predominant in global forests. Science, 2016, 354, . | 12.6 | 864 |
| 2 | Rate of tree carbon accumulation increases continuously with tree size. Nature, 2014, 507, 90-93. | 27.8 | 663 |
| 3 | Mapping tree density at a global scale. Nature, 2015, 525, 201-205. | 27.8 | 642 |
| 4 | Functional trait space and the latitudinal diversity gradient. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13745-13750. | 7.1 | 319 |
| 5 | The <scp>bien r</scp> package: A tool to access the Botanical Information and Ecology Network (BIEN) database. Methods in Ecology and Evolution, 2018, 9, 373-379. | 5.2 | 241 |
| 6 | Using species combinations in indicator value analyses. Methods in Ecology and Evolution, 2012, 3, 973-982. | 5.2 | 224 |
| 7 | The commonness of rarity: Global and future distribution of rarity across land plants. Science Advances, 2019, 5, eaaz0414. | 10.3 | 194 |
| 8 | sPlot â€“ A new tool for global vegetation analyses. Journal of Vegetation Science, 2019, 30, 161-186. | 2.2 | 185 |
| 9 | COMMUNITY STRUCTURE AND FOREST INVASION BY AN EXOTIC HERB OVER 23 YEARS. Ecology, 1998, 79, 2071-2081. | 3.2 | 184 |
| 10 | Phylogenetic classification of the worldâ€™s tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1837-1842. | 7.1 | 144 |
| 11 | Habitat area and climate stability determine geographical variation in plant species range sizes. Ecology Letters, 2013, 16, 1446-1454. | 6.4 | 130 |
| 12 | A comparative framework for broadâ€scale plotâ€based vegetation classification. Applied Vegetation Science, 2015, 18, 543-560. | 1.9 | 126 |
| 13 | Synchrony matters more than species richness in plant community stability at a global scale. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24345-24351. | 7.1 | 113 |
| 14 | High-elevation rock outcrop vegetation of the Southern Appalachian Mountains. Journal of Vegetation Science, 1996, 7, 703-722. | 2.2 | 110 |
| 15 | Interspecific relationships among growth, mortality and xylem traits of woody species from New Zealand. Functional Ecology, 2010, 24, 253-262. | 3.6 | 99 |
| 16 | PREDICTION OF RARE-PLANT OCCURRENCE: A SOUTHERN APPALACHIAN EXAMPLE. , 1998, 8, 909-920. | | 93 |
| 17 | Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. Journal of Biogeography, 2018, 45, 895-916. | 3.0 | 92 |
| 18 | Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. Ecography, 2015, 38, 649-658. | 4.5 | 89 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 86 |
| 20 | IMMEDIATE DAMAGE BY AN EARTHQUAKE TO A TEMPERATE MONTANE FOREST. Ecology, 1999, 80, 708-714. | 3.2 | 84 |
| 21 | Convolutional Neural Networks accurately predict cover fractions of plant species and communities in Unmanned Aerial Vehicle imagery. Remote Sensing in Ecology and Conservation, 2020, 6, 472-486. | 4.3 | 82 |
| 22 | Towards consistency in vegetation classification. Journal of Vegetation Science, 2012, 23, 387-393. | 2.2 | 74 |
| 23 | Trajectory analysis in community ecology. Ecological Monographs, 2019, 89, e01350. | 5.4 | 74 |
| 24 | Reconstructing Holocene water tables in New Zealand using testate amoebae: differential preservation of tests and implications for the use of transfer functions. Holocene, 2003, 13, 61-72. | 1.7 | 67 |
| 25 | New Zealand's forest and shrubland communities: a quantitative classification based on a nationally representative plot network. Applied Vegetation Science, 2011, 14, 506-523. | 1.9 | 62 |
| 26 | The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514. | 5.8 | 62 |
| 27 | Patterns and drivers of plant functional group dominance across the Western Hemisphere: a macroecological re-assessment based on a massive botanical dataset. Botanical Journal of the Linnean Society, 2016, 180, 141-160. | 1.6 | 59 |
| 28 | Global patterns and drivers of alpine plant species richness. Global Ecology and Biogeography, 2021, 30, 1218-1231. | 5.8 | 59 |
| 29 | Mountain beech forest succession after a fire at Mount Thomas Forest, Canterbury, New Zealand. New Zealand Journal of Botany, 1997, 35, 505-515. | 1.1 | 58 |
| 30 | Growthâ€“size scaling relationships of woody plant species differ from predictions of the Metabolic Ecology Model. Ecology Letters, 2007, 10, 889-901. | 6.4 | 58 |
| 31 | Ectomycorrhizal fungal communities and soil chemistry in harvested and unharvested temperate Nothofagus rainforests. Canadian Journal of Forest Research, 2009, 39, 1069-1079. | 1.7 | 51 |
| 32 | Updating vegetation classifications: an example with <scp>N</scp>ew <scp>Z</scp>ealand's woody vegetation. Journal of Vegetation Science, 2013, 24, 80-93. | 2.2 | 50 |
| 33 | sPlotOpen â€“ An environmentally balanced, openâ€access, global dataset of vegetation plots. Global Ecology and Biogeography, 2021, 30, 1740-1764. | 5.8 | 49 |
| 34 | Strategies to estimate national forest carbon stocks from inventory data: the 1990 New Zealand baseline. Global Change Biology, 2001, 7, 389-403. | 9.5 | 48 |
| 35 | ORIGINAL ARTICLE: Elevational parallels of latitudinal variation in the proportion of lianas in woody floras. Journal of Biogeography, 2006, 34, 163-168. | 3.0 | 46 |
| 36 | Impacts of culling and exclusion of browsers on vegetation recovery across New Zealand forests. Biological Conservation, 2012, 153, 64-71. | 4.1 | 46 |

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|---|---|---|---|
| 37 | Environment, disturbance history and rain forest composition across the islands of Tonga, Western Polynesia. Journal of Vegetation Science, 2006, 17, 233-244. | 2.2 | 38 |
| 38 | Plant Functional Diversity and the Biogeography of Biomes in North and South America. Frontiers in Ecology and Evolution, 2018, 6, . | 2.2 | 38 |
| 39 | Presence-only and Presence-absence Data for Comparing Species Distribution Modeling Methods. Biodiversity Informatics, 2020, 15, 69-80. | 3.0 | 38 |
| 40 | The potential for long-term persistence of forest fragments on Tongatapu, a large island in western Polynesia. Journal of Biogeography, 2002, 29, 767-787. | 3.0 | 35 |
| 41 | Vegâ€X â€“ an exchange standard for plotâ€based vegetation data. Journal of Vegetation Science, 2011, 22, 598-609. | 2.2 | 33 |
| 42 | Lateglacial and Holocene vegetation and climatic change on Auckland Island, Subantarctic New Zealand. Holocene, 2000, 10, 719-728. | 1.7 | 32 |
| 43 | Status Assessment of New Zealand's Naturally Uncommon Ecosystems. Conservation Biology, 2012, 26, 619-629. | 4.7 | 32 |
| 44 | ABOVEGROUND AND BELOWGROUND EFFECTS OF SINGLE-TREE REMOVALS IN NEW ZEALAND RAIN FOREST. Ecology, 2008, 89, 1232-1245. | 3.2 | 30 |
| 45 | A review of the heterogeneous landscape of biodiversity databases: Opportunities and challenges for a synthesized biodiversity knowledge base. Global Ecology and Biogeography, 2022, 31, 1242-1260. | 5.8 | 29 |
| 46 | Determinants of regional and local patterns in the floras of braided riverbeds in New Zealand. Journal of Biogeography, 2004, 31, 1355-1372. | 3.0 | 28 |
| 47 | Deadwood in New Zealand's indigenous forests. Forest Ecology and Management, 2009, 258, 2456-2466. | 3.2 | 28 |
| 48 | CONTEXT MATTERS: MATRIX VEGETATION INFLUENCES NATIVE AND EXOTIC SPECIES COMPOSITION ON HABITAT ISLANDS. Ecology, 2008, 89, 380-391. | 3.2 | 27 |
| 49 | Quantifying invasion resistance: the use of recruitment functions to control for propagule pressure. Ecology, 2014, 95, 920-929. | 3.2 | 25 |
| 50 | High-Elevation Outcrops and Barrens of the Southern Appalachian Mountains. , 1999, , 119-132. | | 24 |
| 51 | Where do conifers regenerate after selective harvest?. Forest Ecology and Management, 2007, 253, 138-147. | 3.2 | 24 |
| 52 | Dispersal limitation, speciation, environmental filtering and niche differentiation influence forest tree communities in West Polynesia. Journal of Biogeography, 2013, 40, 988-999. | 3.0 | 24 |
| 53 | Achievements and challenges in the integration, reuse and synthesis of vegetation plot data. Journal of Vegetation Science, 2016, 27, 868-879. | 2.2 | 24 |
| 54 | Tree growth and mortality after small-group harvesting in New Zealand old-growth Nothofagus forests. Canadian Journal of Forest Research, 2005, 35, 2323-2331. | 1.7 | 20 |

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|---|---|---|---|
| 55 | Determinants of tree mortality in mixed old-growth Nothofagus forest. Forest Ecology and Management, 2012, 270, 189-199. | 3.2 | 20 |
| 56 | Disperser communities and legacies of goat grazing determine forest succession on the remote Three Kings Islands, New Zealand. Biological Conservation, 2010, 143, 926-938. | 4.1 | 19 |
| 57 | Comparison of Southern Appalachian high-elevation outcrop plant communities with their Northern Appalachian counterparts. Journal of Biogeography, 1998, 25, 501-513. | 3.0 | 18 |
| 58 | Plantâ€Oâ€Matic: a dynamic and mobile guide to all plants of the Americas. Methods in Ecology and Evolution, 2016, 7, 960-965. | 5.2 | 18 |
| 59 | The relationship of woody plant size and leaf nutrient content to largeâ€scale productivity for forests across the Americas. Journal of Ecology, 2019, 107, 2278-2290. | 4.0 | 18 |
| 60 | Quantification of the effects of aboveground and belowground competition on growth of seedlings in a coniferâ€“angiosperm forest. Forest Ecology and Management, 2012, 269, 188-196. | 3.2 | 17 |
| 61 | Rare species drive local trait diversity in two geographically disjunct examples of a naturally rare alpine ecosystem in <scp>N</scp>ew <scp>Z</scp>ealand. Journal of Vegetation Science, 2012, 23, 626-639. | 2.2 | 17 |
| 62 | Global functional variation in alpine vegetation. Journal of Vegetation Science, 2021, 32, e13000. | 2.2 | 17 |
| 63 | Disturbance affects short-term facilitation, but not long-term saturation, of exotic plant invasion in New Zealand forest. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1457-1466. | 2.6 | 16 |
| 64 | LiDAR-Based Regional Inventory of Tall Treesâ€”Wellington, New Zealand. Forests, 2018, 9, 702. | 2.1 | 16 |
| 65 | The adaptive challenge of extreme conditions shapes evolutionary diversity of plant assemblages at continental scales. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 15 |
| 66 | Environment, composition and conservation of coastal turfs of mainland New Zealand. New Zealand Journal of Botany, 2010, 48, 1-14. | 1.1 | 12 |
| 67 | New Zealandâ€™s plot-based classification of vegetation. Phytocoenologia, 2018, 48, 153-161. | 0.5 | 11 |
| 68 | Expanding an existing classification of New Zealand vegetation to include non-forested vegetation. , 2016, 40, 160-178. | | 11 |
| 69 | Tree survival and growth responses in the aftermath of a strong earthquake. Journal of Ecology, 2020, 108, 107-121. | 4.0 | 9 |
| 70 | Functional Traits Reveal Processes Driving Natural Afforestation at Large Spatial Scales. PLoS ONE, 2013, 8, e75219. | 2.5 | 8 |
| 71 | Mapping Physiognomic Types of Indigenous Forest using Space-Borne SAR, Optical Imagery and Air-borne LiDAR. Remote Sensing, 2019, 11, 1911. | 4.0 | 8 |
| 72 | A classification of the geothermal vegetation of the TaupÅ•Volcanic Zone, New Zealand. Journal of the Royal Society of New Zealand, 2018, 48, 21-38. | 1.9 | 7 |

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| 73 | Using spatial models to identify refugia and guide restoration in response to an invasive plant pathogen. Journal of Applied Ecology, 2021, 58, 192-201. | 4.0 | 7 |
| 74 | Climate, landscape and microenvironment interact to determine plant composition in naturally discrete gravel beach communities. Journal of Vegetation Science, 2010, 21, 657. | 2.2 | 6 |
| 75 | Macroclimate and Topography Interact to Influence the Abundance of Divaricate Plants in New Zealand. Frontiers in Plant Science, 2020, 11, 507. | 3.6 | 6 |
| 76 | Segregation, nestedness and homogenisation in plant communities dominated by native and alien species. Plant Ecology and Diversity, 2018, 11, 479-488. | 2.4 | 5 |
| 77 | Climate influences the value of a plant structural defence against browsing. Journal of Ecology, 2021, 109, 1411-1423. | 4.0 | 5 |
| 78 | (RussoetÂal.2007): A reâ€analysis of growthâ€“size scaling relationships of woody plant species. Ecology Letters, 2008, 11, 311-312. | 6.4 | 4 |
| 79 | LOTVS: A global collection of permanent vegetation plots. Journal of Vegetation Science, 2022, 33, . | 2.2 | 4 |
| 80 | Ecological importance of the Myrtaceae in New Zealand's natural forests. Journal of Vegetation Science, 2022, 33, . | 2.2 | 4 |
| 81 | Method for national mapping spatial extent of southern beech forest using temporal spectral signatures. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102408. | 2.8 | 3 |
| 82 | Using classification assignment rules to assess land-use change impacts on forest biodiversity at local-to-national scales. Forest Ecosystems, 2018, 5, . | 3.1 | 2 |
| 83 | Integrating permanent plot and palaeoecological data to determine subalpineÂpostâ€fire succession, recovery and convergence over 128 years. Journal of Vegetation Science, 2020, 31, 755-767. | 2.2 | 1 |
| 84 | New Zealand National Vegetation Databank. Biodiversity and Ecology = Biodiversitat Und Okologie, 2012, 4, 318-318. | 0.3 | 0 |
| 85 | Resource competition, not facilitation, structures gravel beach plant communities. Journal of Vegetation Science, 2021, 32, e13099. | 2.2 | 0 |