

Zhiheng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

6,767
citations

100601

38
h-index

75989

78
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96
all docs

96
docs citations

96
times ranked

10541
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Relationships Between Soil Microbial Diversities Across an Aridity Gradient in Temperate Grasslands. <i>Microbial Ecology</i> , 2023, 85, 1013-1027. | 1.4 | 7 |
| 2 | Global patterns of species richness of the holarctic alpine herb <i>Saxifraga</i> : the role of temperature and habitat heterogeneity. <i>Journal of Plant Ecology</i> , 2022, 15, 237-252. | 1.2 | 3 |
| 3 | Conservation of woody species in China under future climate and land-use changes. <i>Journal of Applied Ecology</i> , 2022, 59, 141-152. | 1.9 | 22 |
| 4 | Soil pH and aridity influence distributions of branched tetraether lipids in grassland soils along an aridity transect. <i>Organic Geochemistry</i> , 2022, 164, 104347. | 0.9 | 12 |
| 5 | Spatial patterns and determinants of Moraceae richness in China. <i>Journal of Plant Ecology</i> , 2022, 15, 1142-1153. | 1.2 | 4 |
| 6 | An integrated high-resolution mapping shows congruent biodiversity patterns of Fagales and Pinales. <i>New Phytologist</i> , 2022, 235, 759-772. | 3.5 | 7 |
| 7 | Drivers of foliar $\delta^{15}N$ trends in southern China over the last century. <i>Global Change Biology</i> , 2022, 28, 5441-5452. | 4.2 | 7 |
| 8 | Human-Climate Coupled Changes in Vegetation Community Complexity of China Since 1980s. <i>Earth's Future</i> , 2022, 10, . | 2.4 | 4 |
| 9 | Geographical patterns in phylogenetic diversity of Chinese woody plants and its application for conservation planning. <i>Diversity and Distributions</i> , 2021, 27, 179-194. | 1.9 | 21 |
| 10 | Effects of Climate, Plant Height, and Evolutionary Age on Geographical Patterns of Fruit Type. <i>Frontiers in Plant Science</i> , 2021, 12, 604272. | 1.7 | 4 |
| 11 | Vulnerabilities of protected lands in the face of climate and human footprint changes. <i>Nature Communications</i> , 2021, 12, 1632. | 5.8 | 47 |
| 12 | Global distribution and evolutionary transitions of angiosperm sexual systems. <i>Ecology Letters</i> , 2021, 24, 1835-1847. | 3.0 | 22 |
| 13 | Phytogeographic History of the Tea Family Inferred Through High-Resolution Phylogeny and Fossils. <i>Systematic Biology</i> , 2021, 70, 1256-1271. | 2.7 | 18 |
| 14 | Upward shift and elevational range contractions of subtropical mountain plants in response to climate change. <i>Science of the Total Environment</i> , 2021, 783, 146896. | 3.9 | 60 |
| 15 | Relative Importance of Deterministic and Stochastic Processes on Soil Microbial Community Assembly in Temperate Grasslands. <i>Microorganisms</i> , 2021, 9, 1929. | 1.6 | 22 |
| 16 | Plant and microbial pathways driving plant diversity effects on soil carbon accumulation in subtropical forest. <i>Soil Biology and Biochemistry</i> , 2021, 161, 108375. | 4.2 | 42 |
| 17 | Variance in tree growth rates provides a key link for completing the theory of forest size structure formation. <i>Journal of Theoretical Biology</i> , 2021, 529, 110857. | 0.8 | 1 |
| 18 | Phylogenetic niche conservatism and variations in species diversity-climate relationships. <i>Ecography</i> , 2021, 44, 1856-1868. | 2.1 | 8 |

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|----|--|-----|-----------|
| 19 | Distribution of alpine endemic plants of northern Asia: a dataset. <i>Biodiversity Data Journal</i> , 2021, 9, e75348. | 0.4 | 4 |
| 20 | Towards an understanding of the latitudinal patterns in thermal tolerance and vulnerability of woody plants under climate warming. <i>Ecography</i> , 2021, 44, 1797-1807. | 2.1 | 6 |
| 21 | Model complexity affects species distribution projections under climate change. <i>Journal of Biogeography</i> , 2020, 47, 130-142. | 1.4 | 106 |
| 22 | Spatiotemporal variation in leaf size and shape in response to climate. <i>Journal of Plant Ecology</i> , 2020, 13, 87-96. | 1.2 | 42 |
| 23 | Drivers of large-scale geographical variation in sexual systems of woody plants. <i>Global Ecology and Biogeography</i> , 2020, 29, 546-557. | 2.7 | 16 |
| 24 | Links between microbial biomass and necromass components in the top- and subsoils of temperate grasslands along an aridity gradient. <i>Geoderma</i> , 2020, 379, 114623. | 2.3 | 18 |
| 25 | Spatial Patterns and Drivers of Angiosperm Sexual Systems in China Differ Between Woody and Herbaceous Species. <i>Frontiers in Plant Science</i> , 2020, 11, 1222. | 1.7 | 4 |
| 26 | Leaf size of woody dicots predicts ecosystem primary productivity. <i>Ecology Letters</i> , 2020, 23, 1003-1013. | 3.0 | 41 |
| 27 | Phylogenetic conservatism and biogeographic affinity influence woody plant species richness-climate relationships in eastern Eurasia. <i>Ecography</i> , 2020, 43, 1027-1040. | 2.1 | 13 |
| 28 | Effects of contemporary environment and Quaternary climate change on drylands plant diversity differ between growth forms. <i>Ecography</i> , 2019, 42, 334-345. | 2.1 | 36 |
| 29 | Biodiversity hotspots are insufficient in capturing range-restricted species. <i>Conservation Science and Practice</i> , 2019, 1, e103. | 0.9 | 10 |
| 30 | Altitudinal biodiversity patterns of seed plants along Gongga Mountain in the southeastern Qinghai-Tibetan Plateau. <i>Ecology and Evolution</i> , 2019, 9, 9586-9596. | 0.8 | 26 |
| 31 | Contrasting Biogeographic Patterns of Bacterial and Archaeal Diversity in the Top- and Subsoils of Temperate Grasslands. <i>MSystems</i> , 2019, 4, . | 1.7 | 24 |
| 32 | Main ecological drivers of woody plant species richness recovery in secondary forests in China. <i>Scientific Reports</i> , 2019, 9, 250. | 1.6 | 5 |
| 33 | Distinct Biogeography of Different Fungal Guilds and Their Associations With Plant Species Richness in Forest Ecosystems. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, . | 1.1 | 22 |
| 34 | Patterns and ecological determinants of woody plant height in eastern Eurasia and its relation to primary productivity. <i>Journal of Plant Ecology</i> , 2019, 12, 791-803. | 1.2 | 15 |
| 35 | A consistent species richness-climate relationship for oaks across the Northern Hemisphere. <i>Global Ecology and Biogeography</i> , 2019, 28, 1051-1066. | 2.7 | 43 |
| 36 | Responses of four dominant dryland plant species to climate change in the Junggar Basin, northwest China. <i>Ecology and Evolution</i> , 2019, 9, 13596-13607. | 0.8 | 23 |

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|----|--|-----|-----------|
| 37 | Plant diversity enhances productivity and soil carbon storage. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4027-4032. | 3.3 | 368 |
| 38 | The drivers of high <i>Rhododendron</i> diversity in south-west China: Does seasonality matter?. Journal of Biogeography, 2018, 45, 438-447. | 1.4 | 50 |
| 39 | Niche conservatism and elevated diversification shape species diversity in drylands: evidence from Zygophyllaceae. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181742. | 1.2 | 24 |
| 40 | Selecting priority areas for systematic conservation of Chinese <i>Rhododendron</i> : hotspot versus complementarity approaches. Biodiversity and Conservation, 2018, 27, 3759-3775. | 1.2 | 20 |
| 41 | Global patterns of <i>Rhododendron</i> diversity: The role of evolutionary time and diversification rates. Global Ecology and Biogeography, 2018, 27, 913-924. | 2.7 | 84 |
| 42 | Divergent accumulation of microbial necromass and plant lignin components in grassland soils. Nature Communications, 2018, 9, 3480. | 5.8 | 192 |
| 43 | Spatial distance and climate determine modularity in a cross-biomes plant-hummingbird interaction network in Brazil. Journal of Biogeography, 2018, 45, 1846-1858. | 1.4 | 35 |
| 44 | Historical factors shaped species diversity and composition of <i>Salix</i> in eastern Asia. Scientific Reports, 2017, 7, 42038. | 1.6 | 18 |
| 45 | Global patterns of interaction specialization in bird-flower networks. Journal of Biogeography, 2017, 44, 1891-1910. | 1.4 | 68 |
| 46 | Determinants of richness patterns differ between rare and common species: implications for Gesneriaceae conservation in China. Diversity and Distributions, 2017, 23, 235-246. | 1.9 | 50 |
| 47 | Hotspot analyses indicate significant conservation gaps for evergreen broadleaved woody plants in China. Scientific Reports, 2017, 7, 1859. | 1.6 | 37 |
| 48 | A guide to analyzing biodiversity experiments. Journal of Plant Ecology, 2017, 10, 91-110. | 1.2 | 84 |
| 49 | Response of spatial vegetation distribution in China to climate changes since the Last Glacial Maximum (LGM). PLoS ONE, 2017, 12, e0175742. | 1.1 | 34 |
| 50 | An Anthropocene map of genetic diversity. Science, 2016, 353, 1532-1535. | 6.0 | 251 |
| 51 | Leaf margin analysis of Chinese woody plants and the constraints on its application to palaeoclimatic reconstruction. Global Ecology and Biogeography, 2016, 25, 1401-1415. | 2.7 | 19 |
| 52 | Introduction history, climatic suitability, native range size, species traits and their interactions explain establishment of Chinese woody species in Europe. Global Ecology and Biogeography, 2016, 25, 1356-1366. | 2.7 | 32 |
| 53 | Global patterns and determinants of forest canopy height. Ecology, 2016, 97, 3265-3270. | 1.5 | 81 |
| 54 | Medicinal plant diversity and traditional healing practices in eastern Nepal. Journal of Ethnopharmacology, 2016, 192, 292-301. | 2.0 | 39 |

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|----|--|-----|-----------|
| 55 | A zoogeographical boundary between the Palaearctic and Sino-Japanese realms documented by consistent north/south phylogeographical divergences in three woodland birds in eastern China. <i>Journal of Biogeography</i> , 2016, 43, 2099-2112. | 1.4 | 12 |
| 56 | Geographical variation in the importance of water and energy for oak diversity. <i>Journal of Biogeography</i> , 2016, 43, 279-288. | 1.4 | 54 |
| 57 | High proportion of smaller ranged hummingbird species coincides with ecological specialization across the Americas. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152512. | 1.2 | 32 |
| 58 | The macroecology of phylogenetically structured hummingbird-plant networks. <i>Global Ecology and Biogeography</i> , 2015, 24, 1212-1224. | 2.7 | 100 |
| 59 | Rapid loss of lakes on the Mongolian Plateau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2281-2286. | 3.3 | 408 |
| 60 | NCBIminer: sequences harvest from Genbank. <i>Ecography</i> , 2015, 38, 426-430. | 2.1 | 9 |
| 61 | Into and out of the tropics: the generation of the latitudinal gradient among New World passerine birds. <i>Journal of Biogeography</i> , 2014, 41, 1746-1757. | 1.4 | 53 |
| 62 | Determinants of bird species richness, endemism, and island network roles in Wallacea and the West Indies: is geography sufficient or does current and historical climate matter?. <i>Ecology and Evolution</i> , 2014, 4, 4019-4031. | 0.8 | 20 |
| 63 | Natural variation of <i>CBF</i> genes is a major cause of divergence in freezing tolerance among a group of <i>Arabidopsis thaliana</i> populations along the Yangtze River in China. <i>New Phytologist</i> , 2013, 199, 1069-1080. | 3.5 | 60 |
| 64 | An Update of Wallace's Zoogeographic Regions of the World. <i>Science</i> , 2013, 339, 74-78. | 6.0 | 1,037 |
| 65 | Evolutionary history influences the effects of water-energy dynamics on oak diversity in Asia. <i>Journal of Biogeography</i> , 2013, 40, 2146-2155. | 1.4 | 47 |
| 66 | Historical climate change influences modularity and nestedness of pollination networks. <i>Ecography</i> , 2013, 36, 1331-1340. | 2.1 | 116 |
| 67 | Response to Comment on "An Update of Wallace's Zoogeographic Regions of the World". <i>Science</i> , 2013, 341, 343-343. | 6.0 | 15 |
| 68 | Differential mobilization of terrestrial carbon pools in Eurasian Arctic river basins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14168-14173. | 3.3 | 180 |
| 69 | Species Richness Patterns and Water-Energy Dynamics in the Drylands of Northwest China. <i>PLoS ONE</i> , 2013, 8, e66450. | 1.1 | 51 |
| 70 | Geographical patterns in the beta diversity of China's woody plants: the influence of space, environment and range size. <i>Ecography</i> , 2012, 35, 1092-1102. | 2.1 | 36 |
| 71 | Effects of geographical extent on the determinants of woody plant diversity. <i>Ecography</i> , 2012, 35, 1160-1167. | 2.1 | 30 |
| 72 | Patterns of plant beta-diversity along elevational and latitudinal gradients in mountain forests of China. <i>Ecography</i> , 2012, 35, 1083-1091. | 2.1 | 63 |

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|----|--|-----|-----------|
| 73 | Modelling chestnut biogeography for American chestnut restoration. <i>Diversity and Distributions</i> , 2012, 18, 754-768. | 1.9 | 33 |
| 74 | Forest community survey and the structural characteristics of forests in China. <i>Ecography</i> , 2012, 35, 1059-1071. | 2.1 | 96 |
| 75 | Relative role of contemporary environment versus history in shaping diversity patterns of China's woody plants. <i>Ecography</i> , 2012, 35, 1124-1133. | 2.1 | 47 |
| 76 | Large-scale patterns of tree species richness and the metabolic theory of ecology. <i>Global Ecology and Biogeography</i> , 2012, 21, 508-512. | 2.7 | 6 |
| 77 | Effect of geographical range size on plant functional traits and the relationships between plant, soil and climate in Chinese grasslands. <i>Global Ecology and Biogeography</i> , 2012, 21, 416-427. | 2.7 | 32 |
| 78 | Species Distribution and Climates. , 2011, , 1-1902. | | 14 |
| 79 | Biogeography and variability of eleven mineral elements in plant leaves across gradients of climate, soil and plant functional type in China. <i>Ecology Letters</i> , 2011, 14, 788-796. | 3.0 | 406 |
| 80 | Patterns, determinants and models of woody plant diversity in China. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2122-2132. | 1.2 | 174 |
| 81 | Climate change alters interannual variation of grassland aboveground productivity: evidence from a 22-year measurement series in the Inner Mongolian grassland. <i>Journal of Plant Research</i> , 2010, 123, 509-517. | 1.2 | 87 |
| 82 | Regional differences in the timing of recent air warming during the past four decades in China. <i>Science Bulletin</i> , 2010, 55, 1968-1973. | 1.7 | 53 |
| 83 | Temperature dependence, spatial scale, and tree species diversity in eastern Asia and North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13388-13392. | 3.3 | 185 |
| 84 | Integrating highly diverse invertebrates into broad-scale analyses of cross-taxon congruence across the Palearctic. <i>Ecography</i> , 2009, 32, 1019-1030. | 2.1 | 25 |
| 85 | Altitudinal patterns of seed plant richness in the Gaoligong Mountains, south-east Tibet, China. <i>Diversity and Distributions</i> , 2007, 13, 845-854. | 1.9 | 101 |
| 86 | A test of the generality of leaf trait relationships on the Tibetan Plateau. <i>New Phytologist</i> , 2006, 170, 835-848. | 3.5 | 159 |
| 87 | Stoichiometry and large-scale patterns of leaf carbon and nitrogen in the grassland biomes of China. <i>Oecologia</i> , 2006, 149, 115-122. | 0.9 | 210 |
| 88 | Biodiversity in China's mountains. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 347-352. | 1.9 | 236 |
| 89 | Biodiversity changes in the lakes of the Central Yangtze. <i>Frontiers in Ecology and the Environment</i> , 2006, 4, 369-377. | 1.9 | 210 |
| 90 | Biodiversity in China's mountains. , 2006, 4, 347. | | 1 |

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|----|--|-----|-----------|
| 91 | Biodiversity changes in the lakes of the Central Yangtze. , 2006, 4, 369. | | 1 |
| 92 | Biodiversity changes in the lakes of the Central Yangtze. , 2006, 4, 369. | | 1 |
| 93 | Biomass carbon accumulation by Japan's forests from 1947 to 1995. Global Biogeochemical Cycles, 2005, 19, n/a-n/a. | 1.9 | 84 |
| 94 | Mountain ranges and peaks in China. Biodiversity Science, 2004, 12, 206-212. | 0.2 | 22 |
| 95 | Effects of topography on structuring species assemblages in a subtropical forest. Journal of Plant Ecology, 0, , rtw047. | 1.2 | 8 |