

# Runguo Zang

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

3,038  
citations

293460

24  
h-index

206121

51  
g-index

111  
all docs

111  
docs citations

111  
times ranked

5957  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative degradation/mineralization of dimethyl phthalate (DMP) from plastic industrial wastewater using ferrate(VI)/TiO <sub>2</sub> under ultraviolet irradiation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 15159-15171.	2.7	4
2	Rare and common species contribute disproportionately to the functional variation within tropical forests. <i>Journal of Environmental Management</i> , 2022, 304, 114332.	3.8	8
3	Soil nutrients and climate seasonality drive differentiation of ecological strategies of species in forests across four climatic zones. <i>Plant and Soil</i> , 2022, 473, 517-531.	1.8	7
4	Modification of plasma membrane H <sup>+</sup> -ATPase in Masson pine ( <i>Pinus massoniana</i> Lamb.) seedling roots adapting to acid deposition. <i>Tree Physiology</i> , 2022, 42, 1432-1449.	1.4	4
5	A ten-year record reveals the importance of tree species' habitat specialization in driving successional trajectories on Hainan Island, China. <i>Forest Ecology and Management</i> , 2022, 507, 120027.	1.4	8
6	Species Diversity Regulates Ecological Strategy Spectra of Forest Vegetation Across Different Climatic Zones. <i>Frontiers in Plant Science</i> , 2022, 13, 807369.	1.7	2
7	Novel evidence from <i>Taxus fuana</i> forests for niche-neutral process assembling community. <i>Forest Ecosystems</i> , 2022, 9, 100035.	1.3	4
8	Assessment of Species Composition and Community Structure of the Suburban Forest in Hangzhou, Eastern China. <i>Sustainability</i> , 2022, 14, 4304.	1.6	5
9	Food plant diversity in different-altitude habitats of Hainan gibbons ( <i>Nomascus hainanus</i> ): implications for conservation. <i>Global Ecology and Conservation</i> , 2022, , e02204.	1.0	4
10	Ecological Strategy Spectra for Communities of Different Successional Stages in the Tropical Lowland Rainforest of Hainan Island. <i>Forests</i> , 2022, 13, 973.	0.9	2
11	Effects of thinning on the demography and functional community structure of a secondary tropical lowland rain forest. <i>Journal of Environmental Management</i> , 2021, 279, 111805.	3.8	12
12	Ecological uniqueness of species assemblages and their determinants in forest communities. <i>Diversity and Distributions</i> , 2021, 27, 454-462.	1.9	8
13	Conspecific negative density dependence of trees varies with plant functional traits and environmental conditions across scales in a 60-year tropical rainforest dynamics plot. <i>Biotropica</i> , 2021, 53, 693-702.	0.8	6
14	Determinants of aboveground biomass in forests across three climatic zones in China. <i>Forest Ecology and Management</i> , 2021, 482, 118805.	1.4	23
15	The Effects of Multi-Scale Climate Variability on Biodiversity Patterns of Chinese Evergreen Broad-Leaved Woody Plants: Growth Form Matters. <i>Frontiers in Ecology and Evolution</i> , 2021, 8, .	1.1	3
16	Photocatalytic performance of nano-ZnTiO <sub>3</sub> decorated with Ag/AgCl nanoparticles for degradation of the organic dyes. <i>Research on Chemical Intermediates</i> , 2021, 47, 2373-2391.	1.3	5
17	Disentangling Environmental Effects on the Tree Species Abundance Distribution and Richness in a Subtropical Forest. <i>Frontiers in Plant Science</i> , 2021, 12, 622043.	1.7	14
18	The population status and threats of <i>Taxus cuspidata</i> , a plant species with extremely small populations in China. <i>Global Ecology and Conservation</i> , 2021, 26, e01495.	1.0	3

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19	Recovery of Logged Tropical Montane Rainforests as Potential Habitats for Hainan Gibbon. <i>Forests</i> , 2021, 12, 711.	0.9	11
20	Variation Patterns of Functional Trait Moments Along Geographical Gradients and Their Environmental Determinants in the Subtropical Evergreen Broadleaved Forests. <i>Frontiers in Plant Science</i> , 2021, 12, 686965.	1.7	11
21	Shifts in ecological strategy spectra of typical forest vegetation types across four climatic zones. <i>Scientific Reports</i> , 2021, 11, 14127.	1.6	10
22	Nutrient loads and ratios both explain the coexistence of dominant tree species in a boreal forest in Xinjiang, Northwest China. <i>Forest Ecology and Management</i> , 2021, 491, 119198.	1.4	2
23	Effects of Above- and Below-Ground Interactions of Plants on Growth of Tree Seedlings in Low-Elevation Tropical Rainforests on Hainan Island, China. <i>Forests</i> , 2021, 12, 905.	0.9	1
24	Effects of logging on the ecological strategy spectrum of a tropical montane rain forest. <i>Ecological Indicators</i> , 2021, 128, 107812.	2.6	8
25	Functional traits change but species diversity is not influenced by edge effects in an urban forest of Eastern China. <i>Urban Forestry and Urban Greening</i> , 2021, 64, 127245.	2.3	12
26	Tropical forests are vulnerable in terms of functional redundancy. <i>Biological Conservation</i> , 2021, 262, 109326.	1.9	5
27	Degradation of dimethyl phthalate through Fe(II)/peroxymonosulphate heightened by fulvic acid: efficiency and possible mechanism. <i>Environmental Technology (United Kingdom)</i> , 2021, , 1-13.	1.2	1
28	Do climate and human disturbance determine the sizes of endangered <i>Metasequoia glyptostroboides</i> trees in their native range?. <i>Global Ecology and Conservation</i> , 2020, 21, e00850.	1.0	3
29	Latitudinal Diversity Gradients and Rapoport Effects in Chinese Endemic Woody Seed Plants. <i>Forests</i> , 2020, 11, 1029.	0.9	5
30	Tropical cyclones and island area shape species abundance distributions of local tree communities. <i>Oikos</i> , 2020, 129, 1856-1866.	1.2	6
31	Patterns of diversity change for forest vegetation across different climatic regions - A compound habitat gradient analysis approach. <i>Global Ecology and Conservation</i> , 2020, 23, e01106.	1.0	5
32	Plant Functional Niches in Forests Across Four Climatic Zones: Exploring the Periodic Table of Niches Based on Plant Functional Traits. <i>Frontiers in Plant Science</i> , 2020, 11, 841.	1.7	9
33	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020, 29, 1495-1514.	2.7	62
34	The effects of soil phosphorus on aboveground biomass are mediated by functional diversity in a tropical cloud forest. <i>Plant and Soil</i> , 2020, 449, 51-63.	1.8	10
35	Plant functional traits regulate soil bacterial diversity across temperate deserts. <i>Science of the Total Environment</i> , 2020, 715, 136976.	3.9	34
36	Competition and facilitation co-regulate the spatial patterns of boreal tree species in Kanas of Xinjiang, northwest China. <i>Forest Ecology and Management</i> , 2020, 467, 118167.	1.4	31

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37	Scaling relationships among functional traits are similar across individuals, species, and communities. <i>Journal of Vegetation Science</i> , 2020, 31, 571-580.	1.1	8
38	Trait Gradient Analysis for Evergreen and Deciduous Species in a Subtropical Forest. <i>Forests</i> , 2020, 11, 364.	0.9	8
39	The effect of environmental filtering on variation in functional diversity along a tropical elevational gradient. <i>Journal of Vegetation Science</i> , 2019, 30, 973-983.	1.1	34
40	Effects of current climate, paleo-climate, and habitat heterogeneity in determining biogeographical patterns of evergreen broad-leaved woody plants in China. <i>Journal of Chinese Geography</i> , 2019, 29, 1142-1158.	1.5	15
41	The Influences of Disturbance Histories and Soil Properties on Aboveground Biomass through Plant Functional Traits in a Tropical Rainforest. <i>Forests</i> , 2019, 10, 774.	0.9	6
42	Differential Responses to Climate and Land-Use Changes in Threatened Chinese <i>Taxus</i> Species. <i>Forests</i> , 2019, 10, 766.	0.9	18
43	Intraspecific trait variation and neighborhood competition drive community dynamics in an old-growth spruce forest in northwest China. <i>Science of the Total Environment</i> , 2019, 678, 525-532.	3.9	13
44	Patterns of local species richness and their associations with functional traits in a 60-ha tropical forest dynamics plot. <i>Ecosphere</i> , 2019, 10, e02617.	1.0	4
45	Changes in Plant Functional Groups during Secondary Succession in a Tropical Montane Rain Forest. <i>Forests</i> , 2019, 10, 1134.	0.9	5
46	Functional features of tropical montane rain forests along a logging intensity gradient. <i>Ecological Indicators</i> , 2019, 97, 311-318.	2.6	11
47	Priorities and conservation gaps across three biodiversity dimensions of rare and endangered plant species in China. <i>Biological Conservation</i> , 2019, 229, 30-37.	1.9	44
48	Phylogenetic classification of the world's tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1837-1842.	3.3	144
49	Composition of basal area in natural forests based on the uniform angle index. <i>Ecological Informatics</i> , 2018, 45, 1-8.	2.3	19
50	Regional forcing explains local species diversity and turnover on tropical islands. <i>Global Ecology and Biogeography</i> , 2018, 27, 474-486.	2.7	38
51	Functional recovery of a subtropical evergreen-deciduous broadleaved mixed forest following clear cutting in central China. <i>Scientific Reports</i> , 2018, 8, 16458.	1.6	8
52	Variation in three community features across habitat types and scales within a 15-ha subtropical evergreen-deciduous broadleaved mixed forest dynamics plot in China. <i>Ecology and Evolution</i> , 2018, 8, 11987-11998.	0.8	1
53	Recovery of Functional Diversity Following Shifting Cultivation in Tropical Monsoon Forests. <i>Forests</i> , 2018, 9, 506.	0.9	6
54	Patterns of maximum height of endemic woody seed plants in relation to environmental factors in China. <i>Ecosphere</i> , 2018, 9, e02319.	1.0	5

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55	Partitioning the functional variation of tree seedlings during secondary succession in a tropical lowland rainforest. <i>Ecosphere</i> , 2018, 9, e02305.	1.0	3
56	Plant Functional Traits Are the Mediators in Regulating Effects of Abiotic Site Conditions on Aboveground Carbon Stock-Evidence From a 30 ha Tropical Forest Plot. <i>Frontiers in Plant Science</i> , 2018, 9, 1958.	1.7	46
57	The impacts of selective logging and clear-cutting on woody plant diversity after 40 years of natural recovery in a tropical montane rain forest, south China. <i>Science of the Total Environment</i> , 2017, 579, 1683-1691.	3.9	41
58	DNA barcoding analysis and phylogenetic relationships of tree species in tropical cloud forests. <i>Scientific Reports</i> , 2017, 7, 12564.	1.6	56
59	Hotspot analyses indicate significant conservation gaps for evergreen broadleaved woody plants in China. <i>Scientific Reports</i> , 2017, 7, 1859.	1.6	37
60	The assembly and interactions of tree species in tropical forests based on spatial analysis. <i>Ecosphere</i> , 2017, 8, e01903.	1.0	2
61	Species composition and community structure of a 6-ha subtropical evergreen and deciduous broad-leaved mixed forest dynamics plot in the Qizimei Mountains, Hubei Province. <i>Biodiversity Science</i> , 2017, 25, 275-284.	0.2	1
62	Changes in biotic and abiotic drivers of seedling species composition during forest recovery following shifting cultivation on Hainan Island, China. <i>Biotropica</i> , 2016, 48, 758-769.	0.8	13
63	Distribution of vascular epiphytes along a tropical elevational gradient: disentangling abiotic and biotic determinants. <i>Scientific Reports</i> , 2016, 6, 19706.	1.6	48
64	Effects of grazing on photosynthetic features and soil respiration of rangelands in the Tianshan Mountains of Northwest China. <i>Scientific Reports</i> , 2016, 6, 30087.	1.6	20
65	Associations between plant composition/diversity and the abiotic environment across six vegetation types in a biodiversity hotspot of Hainan Island, China. <i>Plant and Soil</i> , 2016, 403, 21-35.	1.8	26
66	Classification of Landscape Types Based on Land Cover, Successional Stages and Plant Functional Groups in a Species-Rich Forest in Hainan Island, China. <i>Tropical Conservation Science</i> , 2016, 9, 135-152.	0.6	5
67	Diversity maintenance mechanism changes with vegetation type and the community size in a tropical nature reserve. <i>Ecosphere</i> , 2016, 7, e01526.	1.0	2
68	Patterns of Species Diversity are not Consistent between Shifting Cultivation in Bawangling Nature Reserves and Selective Logging in Diaoluoshan Nature Reserves, Hainan Island, China. <i>Tropical Conservation Science</i> , 2016, 9, 584-606.	0.6	2
69	Aboveground and belowground competition affect seedling performance and allometry in a tropical monsoon forest. <i>New Forests</i> , 2016, 47, 529-540.	0.7	6
70	Interspecific and intraspecific variation in functional traits of subtropical evergreen and deciduous broad-leaved mixed forests. <i>Biodiversity Science</i> , 2016, 24, 262-270.	0.2	11
71	Changes in the Diversity of Evergreen and Deciduous Species During Natural Recovery Following Clear-Cutting in a Subtropical Evergreen-Deciduous Broadleaved Mixed Forest of Central China. <i>Tropical Conservation Science</i> , 2015, 8, 1033-1052.	0.6	44
72	Habitat hotspots of common and rare tropical species along climatic and edaphic gradients. <i>Journal of Ecology</i> , 2015, 103, 1325-1333.	1.9	19

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73	Changes in Patterns of Species Co-occurrence across Two Tropical Cloud Forests Differing in Soil Nutrients and Air Temperature. <i>Biotropica</i> , 2015, 47, 416-423.	0.8	15
74	An estimate of the number of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7472-7477.	3.3	335
75	Effects of soil and microclimatic conditions on the community-level plant functional traits across different tropical forest types. <i>Plant and Soil</i> , 2015, 390, 351-367.	1.8	19
76	Partial recovery of a tropical rain forest a half-century after clear-cut and selective logging. <i>Journal of Applied Ecology</i> , 2015, 52, 1044-1052.	1.9	55
77	Community assembly in a tropical cloud forest related to specific leaf area and maximum species height. <i>Journal of Vegetation Science</i> , 2015, 26, 513-523.	1.1	22
78	Relationships between Community Level Functional Traits of Trees and Seedlings during Secondary Succession in a Tropical Lowland Rainforest. <i>PLoS ONE</i> , 2015, 10, e0132849.	1.1	3
79	Effects of tending on the functional traits and functional diversity of woody plants in a secondary tropical lowland rain forest. <i>Biodiversity Science</i> , 2015, 23, 79-88.	0.2	0
80	Functional Trait Trade-Offs for the Tropical Montane Rain Forest Species Responding to Light from Simulating Experiments. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	0.8	9
81	Field observed relationships between biodiversity and ecosystem functioning during secondary succession in a tropical lowland rainforest. <i>Acta Oecologica</i> , 2014, 55, 1-7.	0.5	33
82	Environmental filtering of species with different functional traits into plant assemblages across a tropical coniferous-broadleaved forest ecotone. <i>Plant and Soil</i> , 2014, 380, 361-374.	1.8	24
83	Variations and Trade-offs in Functional Traits of Tree Seedlings during Secondary Succession in a Tropical Lowland Rain Forest. <i>Biotropica</i> , 2014, 46, 404-414.	0.8	11
84	Changes in Floristic Composition, Community Structure and Species Diversity Across a Tropical Coniferous-Broadleaved Forest Ecotone. <i>Tropical Conservation Science</i> , 2014, 7, 126-144.	0.6	9
85	Large trees drive forest aboveground biomass variation in moist lowland forests across the tropics. <i>Global Ecology and Biogeography</i> , 2013, 22, 1261-1271.	2.7	365
86	Differences in forest plant functional trait distributions across land-use and productivity gradients. <i>American Journal of Botany</i> , 2013, 100, 1356-1368.	0.8	21
87	Predicting the distribution of potential natural vegetation based on species functional groups in fragmented and species-rich forests. <i>Plant Ecology and Evolution</i> , 2013, 146, 261-271.	0.3	6
88	Effects of Competition and Facilitation on Species Assemblage in Two Types of Tropical Cloud Forest. <i>PLoS ONE</i> , 2013, 8, e60252.	1.1	19
89	Spatial pattern of trees in tropical lowland rain forest in Bawangling of Hainan Island, China. <i>Chinese Journal of Plant Ecology</i> , 2013, 36, 269-280.	0.3	2
90	Community assembly during recovery of tropical lowland rain forest from abandoned shift-ing cultivation lands on Hainan Island, China. <i>Chinese Journal of Plant Ecology</i> , 2013, 37, 415-426.	0.3	1

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91	Community assembly during recovery of tropical lowland rain forest from abandoned shifting cultivation lands on Hainan Island, China. <i>Chinese Journal of Plant Ecology</i> , 2013, 37, 415-426.	0.3	0
92	Recovery of woody plant diversity in tropical rain forests in southern China after logging and shifting cultivation. <i>Biological Conservation</i> , 2012, 145, 225-233.	1.9	62
93	Assessing non-parametric and area-based methods for estimating regional species richness. <i>Journal of Vegetation Science</i> , 2012, 23, 1006-1012.	1.1	22
94	Disturbance regime changes the trait distribution, phylogenetic structure and community assembly of tropical rain forests. <i>Oikos</i> , 2012, 121, 1263-1270.	1.2	117
95	Air temperature and soil phosphorus availability correlate with trait differences between two types of tropical cloud forests. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2011, 206, 896-903.	0.6	31
96	Within- and among-species variation in specific leaf area drive community assembly in a tropical cloud forest. <i>Oecologia</i> , 2011, 167, 1103-1113.	0.9	65
97	Land-use intensification reduces functional redundancy and response diversity in plant communities. <i>Ecology Letters</i> , 2010, 13, 76-86.	3.0	476
98	Effects of Logging on the Diversity of Lianas in a Lowland Tropical Rain Forest in Hainan Island, South China. <i>Biotropica</i> , 2009, 41, 618-624.	0.8	22
99	Spatiotemporal Patterns and Dynamics of Species Richness and Abundance of Woody Plant Functional Groups in a Tropical Forest Landscape of Hainan Island, South China. <i>Journal of Integrative Plant Biology</i> , 2008, 50, 547-558.	4.1	7
100	Identification of functional groups in an old-growth tropical montane rain forest on Hainan Island, China. <i>Forest Ecology and Management</i> , 2008, 255, 1820-1830.	1.4	20
101	Effect of Hillslope Gradient on Vegetation Recovery on Abandoned Land of Shifting Cultivation in Hainan Island, South China. <i>Journal of Integrative Plant Biology</i> , 2006, 48, 642-653.	4.1	9
102	Community Characteristics of Early Recovery Vegetation on Abandoned Lands of Shifting Cultivation in Bawangling of Hainan Island, South China. <i>Journal of Integrative Plant Biology</i> , 2005, 47, 530-538.	4.1	99
103	Within community patch dynamics in a tropical montane rain forest of Hainan Island, South China. <i>Acta Oecologica</i> , 2005, 28, 39-48.	0.5	29
104	Seed plant features, distribution patterns, diversity hotspots, and conservation gaps in Xinjiang, China. <i>Nature Conservation</i> , 0, 27, 1-15.	0.0	6
105	Diversity and distribution of food plants: Implications for conservation of the critically endangered Hainan gibbon. <i>Nature Conservation</i> , 0, 31, 17-33.	0.0	7
106	Floristic composition and plant diversity in distribution areas of native species congeneric with <i>Betula halophila</i> in Xinjiang, northwest China. <i>Nature Conservation</i> , 0, 42, 1-17.	0.0	0