

I-Fang Sun

List of Publications by Year in descending order

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58
papers

5,156
citations

186209

28
h-index

138417

58
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58
all docs

58
docs citations

58
times ranked

7321
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016, 529, 204-207.	13.7	655
2	Partitioning beta diversity in a subtropical broadleaved forest of China. <i>Ecology</i> , 2009, 90, 663-674.	1.5	520
3	<sc>CTFS</sc>â€Forest<sc>GEO</sc>: a worldwide network monitoring forests in an era of global change. <i>Global Change Biology</i> , 2015, 21, 528-549.	4.2	473
4	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
5	Global importance of largeâ€diameter trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 849-864.	2.7	330
6	Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. <i>Ecology Letters</i> , 2006, 9, 575-588.	3.0	280
7	Scaleâ€dependent relationships between tree species richness and ecosystem function in forests. <i>Journal of Ecology</i> , 2013, 101, 1214-1224.	1.9	265
8	Plant diversity increases with the strength of negative density dependence at the global scale. <i>Science</i> , 2017, 356, 1389-1392.	6.0	222
9	Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. <i>Ecology Letters</i> , 2006, 9, 589-602.	3.0	170
10	Nonrandom Processes Maintain Diversity in Tropical Forests. <i>Science</i> , 2006, 311, 527-531.	6.0	166
11	The variation of tree beta diversity across a global network of forest plots. <i>Global Ecology and Biogeography</i> , 2012, 21, 1191-1202.	2.7	135
12	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. <i>Biological Conservation</i> , 2021, 253, 108907.	1.9	122
13	Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity. <i>Nature</i> , 2017, 550, 105-108.	13.7	106
14	Title is missing!. <i>Plant Ecology</i> , 1997, 132, 229-241.	0.7	104
15	Linking functional traits and demographic rates in a subtropical tree community: the importance of size dependency. <i>Journal of Ecology</i> , 2014, 102, 641-650.	1.9	95
16	Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. <i>Ecology Letters</i> , 2019, 22, 245-255.	3.0	92
17	Functional composition drives ecosystem function through multiple mechanisms in a broadleaved subtropical forest. <i>Oecologia</i> , 2016, 182, 829-840.	0.9	89
18	Topographic and biotic regulation of aboveground carbon storage in subtropical broad-leaved forests of Taiwan. <i>Forest Ecology and Management</i> , 2011, 262, 1817-1825.	1.4	80

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19	Seed predation during general flowering events of varying magnitude in a Malaysian rain forest. <i>Journal of Ecology</i> , 2007, 95, 818-827.	1.9	64
20	Quantifying effects of habitat heterogeneity and other clustering processes on spatial distributions of tree species. <i>Ecology</i> , 2013, 94, 2436-2443.	1.5	63
21	Trait-mediated effects of environmental filtering on tree community dynamics. <i>Journal of Ecology</i> , 2013, 101, 722-733.	1.9	55
22	Species-specific flowering cues among general flowering <i>Shorea</i> species at the Pasoh Research Forest, Malaysia. <i>Journal of Ecology</i> , 2018, 106, 586-598.	1.9	54
23	Cross-boundary subsidy cascades from oil palm degrade distant tropical forests. <i>Nature Communications</i> , 2017, 8, 2231.	5.8	53
24	Long-term changes in liana loads and tree dynamics in a Malaysian forest. <i>Ecology</i> , 2015, 96, 2748-2757.	1.5	46
25	The Frequency of Cyclonic Wind Storms Shapes Tropical Forest Dynamism and Functional Trait Dispersion. <i>Forests</i> , 2018, 9, 404.	0.9	43
26	Climate sensitive size-dependent survival in tropical trees. <i>Nature Ecology and Evolution</i> , 2018, 2, 1436-1442.	3.4	41
27	ENSO and frost codetermine decade-long temporal variation in flower and seed production in a subtropical rain forest. <i>Journal of Ecology</i> , 2016, 104, 44-54.	1.9	36
28	Temporal and spatial variability in seedling dynamics: a cross-site comparison in four lowland tropical forests. <i>Journal of Tropical Ecology</i> , 2008, 24, 9-18.	0.5	34
29	The role of functional uniqueness and spatial aggregation in explaining rarity in trees. <i>Global Ecology and Biogeography</i> , 2017, 26, 777-786.	2.7	33
30	Spatial scale changes the relationship between beta diversity, species richness and latitude. <i>Royal Society Open Science</i> , 2018, 5, 181168.	1.1	29
31	Patterns of nitrogen-fixing tree abundance in forests across Asia and America. <i>Journal of Ecology</i> , 2019, 107, 2598-2610.	1.9	29
32	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. <i>Nature Communications</i> , 2021, 12, 3137.	5.8	28
33	The interspecific growth-mortality trade-off is not a general framework for tropical forest community structure. <i>Nature Ecology and Evolution</i> , 2021, 5, 174-183.	3.4	27
34	Flowering and Fruiting Patterns in a Subtropical Rain Forest, Taiwan. <i>Biotropica</i> , 2013, 45, 165-174.	0.8	24
35	Consequences of spatial patterns for coexistence in species-rich plant communities. <i>Nature Ecology and Evolution</i> , 2021, 5, 965-973.	3.4	24
36	Distribution of biomass dynamics in relation to tree size in forests across the world. <i>New Phytologist</i> , 2022, 234, 1664-1677.	3.5	24

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37	Closely-related taxa influence woody species discrimination via DNA barcoding: evidence from global forest dynamics plots. <i>Scientific Reports</i> , 2015, 5, 15127.	1.6	23
38	Linking leaf veins to growth and mortality rates: an example from a subtropical tree community. <i>Ecology and Evolution</i> , 2016, 6, 6085-6096.	0.8	23
39	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. <i>Nature Communications</i> , 2022, 13, 2381.	5.8	21
40	Individual tree damage dominates mortality risk factors across six tropical forests. <i>New Phytologist</i> , 2022, 233, 705-721.	3.5	18
41	Closing the life cycle of forest trees: The difficult dynamics of seedling-to-sapling transitions in a subtropical rainforest. <i>Journal of Ecology</i> , 2021, 109, 2705-2716.	1.9	14
42	Multi-stemming and size enhance survival of dominant tree species in a frequently typhoon-disturbed forest. <i>Journal of Vegetation Science</i> , 2020, 31, 429-439.	1.1	12
43	Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. <i>Ecology Letters</i> , 2020, 23, 160-171.	3.0	11
44	Consistency of demographic trade-offs across 13 (sub)tropical forests. <i>Journal of Ecology</i> , 2022, 110, 1485-1496.	1.9	11
45	Abundance of insect seed predators and intensity of seed predation on <i>Shorea</i> (Dipterocarpaceae) in two consecutive masting events in Peninsular Malaysia. <i>Journal of Tropical Ecology</i> , 2011, 27, 651-655.	0.5	10
46	Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". <i>Science</i> , 2018, 360, .	6.0	9
47	Network science applied to forest megaplots: tropical tree species coexist in small-world networks. <i>Scientific Reports</i> , 2020, 10, 13198.	1.6	9
48	Seed size and the evolution of leaf defences. <i>Journal of Ecology</i> , 2015, 103, 1057-1068.	1.9	8
49	Species packing and the latitudinal gradient in beta-diversity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20203045.	1.2	8
50	Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. <i>Global Change Biology</i> , 2022, 28, 2895-2909.	4.2	8
51	Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". <i>Science</i> , 2018, 360, .	6.0	6
52	Wind Speed Controls Forest Structure in a Subtropical Forest Exposed to Cyclones: A Case Study Using an Individual-Based Model. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	6
53	Seedling survival simultaneously determined by conspecific, heterospecific, and phylogenetically related neighbors and habitat heterogeneity in a subtropical forest in Taiwan. <i>Ecology and Evolution</i> , 2022, 12, e8525.	0.8	4
54	Variation in biotic interactions mediates the effects of masting and rainfall fluctuations on seedling demography in a subtropical rainforest. <i>Journal of Ecology</i> , 2022, 110, 762-771.	1.9	3

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55	Environment-and trait-mediated scaling of tree occupancy in forests worldwide. <i>Global Ecology and Biogeography</i> , 2019, 28, 1155-1167.	2.7	2
56	Effects of fire disturbance on species and functional compositions vary with tree sizes in a tropical dry forest. <i>PeerJ</i> , 2022, 10, e13270.	0.9	2
57	Interactions between all pairs of neighboring trees in 16 forests worldwide reveal details of unique ecological processes in each forest, and provide windows into their evolutionary histories. <i>PLoS Computational Biology</i> , 2021, 17, e1008853.	1.5	1
58	Transferability of an individual- and trait-based forest dynamics model: A test case across the tropics. <i>Ecological Modelling</i> , 2022, 463, 109801.	1.2	1