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 g-index
58 all docs	58 docs citations	58 times ranked	7321 citing authors

#	Article	IF	Citations
1	Individual tree damage dominates mortality risk factors across six tropical forests. New Phytologist, 2022, 233, 705-721.	3.5	18
2	Transferability of an individual- and trait-based forest dynamics model: A test case across the tropics. Ecological Modelling, 2022, 463, 109801.	1.2	1
3	Seedling survival simultaneously determined by conspecific, heterospecific, and phylogenetically related neighbors and habitat heterogeneity in a subtropical forest in Taiwan. Ecology and Evolution, 2022, 12, e8525.	0.8	4
4	Variation in biotic interactions mediates the effects of masting and rainfall fluctuations on seedling demography in a subtropical rainforest. Journal of Ecology, 2022, 110, 762-771.	1.9	3
5	Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. Global Change Biology, 2022, 28, 2895-2909.	4.2	8
6	Distribution of biomass dynamics in relation to tree size in forests across the world. New Phytologist, 2022, 234, 1664-1677.	3.5	24
7	Effects of fire disturbance on species and functional compositions vary with tree sizes in a tropical dry forest. PeerJ, 2022, 10, e13270.	0.9	2
8	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. Nature Communications, 2022, 13, 2381.	5.8	21
9	Wind Speed Controls Forest Structure in a Subtropical Forest Exposed to Cyclones: A Case Study Using an Individual-Based Model. Frontiers in Forests and Global Change, 2022, 5, .	1.0	6
10	Consistency of demographic tradeâ€offs across 13 (sub)tropical forests. Journal of Ecology, 2022, 110, 1485-1496.	1.9	11
11	The interspecific growthâ€“mortality trade-off is not a general framework for tropical forest community structure. Nature Ecology and Evolution, 2021, 5, 174-183.	3.4	27
12	ForestGEO: Understanding forest diversity and dynamics through a global observatory network. Biological Conservation, 2021, 253, 108907.	1.9	122
13	Species packing and the latitudinal gradient in beta-diversity. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20203045.	1.2	8
14	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. PLoS Computational Biology, 2021, 17, e1008853.	1.5	1
15	Closing the life cycle of forest trees: The difficult dynamics of seedlingâ€toâ€sapling transitions in a subtropical rainforest. Journal of Ecology, 2021, 109, 2705-2716.	1.9	14
16	Consequences of spatial patterns for coexistence in species-rich plant communities. Nature Ecology and Evolution, 2021, 5, 965-973.	3.4	24
17	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. Nature Communications, 2021, 12, 3137.	5.8	28
18	Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. Ecology Letters, 2020, 23, 160-171.	3.0	11

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19	Network science applied to forest megaplots: tropical tree species coexist in small-world networks. Scientific Reports, 2020, 10, 13198.	1.6	9
20	Multiâ€stemming and size enhance survival of dominant tree speciesÂin a frequently typhoonâ€disturbed forest. Journal of Vegetation Science, 2020, 31, 429-439.	1.1	12
21	Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. Ecology Letters, 2019, 22, 245-255.	3.0	92
22	Patterns of nitrogenâ€fixing tree abundance in forests across Asia and America. Journal of Ecology, 2019, 107, 2598-2610.	1.9	29
23	Environmentâ€and traitâ€mediated scaling of tree occupancy in forests worldwide. Global Ecology and Biogeography, 2019, 28, 1155-1167.	2.7	2
24	Speciesâ€specific flowering cues among general flowering Shorea species at the Pasoh Research Forest, Malaysia. Journal of Ecology, 2018, 106, 586-598.	1.9	54
25	Spatial scale changes the relationship between beta diversity, species richness and latitude. Royal Society Open Science, 2018, 5, 181168.	1.1	29
26	Response to Comment on â€œPlant diversity increases with the strength of negative density dependence at the global scaleâ€• Science, 2018, 360, .	6.0	6
27	Response to Comment on â€œPlant diversity increases with the strength of negative density dependence at the global scaleâ€• Science, 2018, 360, .	6.0	9
28	The Frequency of Cyclonic Wind Storms Shapes Tropical Forest Dynamism and Functional Trait Dispersion. Forests, 2018, 9, 404.	0.9	43
29	Global importance of largeâ€diameter trees. Global Ecology and Biogeography, 2018, 27, 849-864.	2.7	330
30	Climate sensitive size-dependent survival in tropical trees. Nature Ecology and Evolution, 2018, 2, 1436-1442.	3.4	41
31	The role of functional uniqueness and spatial aggregation in explaining rarity in trees. Global Ecology and Biogeography, 2017, 26, 777-786.	2.7	33
32	Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity. Nature, 2017, 550, 105-108.	13.7	106
33	Plant diversity increases with the strength of negative density dependence at the global scale. Science, 2017, 356, 1389-1392.	6.0	222
34	Cross-boundary subsidy cascades from oil palm degrade distant tropical forests. Nature Communications, 2017, 8, 2231.	5.8	53
35	<scp>ENSO</scp> and frost codetermine decadeâ€long temporal variation in flower and seed production in a subtropical rain forest. Journal of Ecology, 2016, 104, 44-54.	1.9	36
36	Functional composition drives ecosystem function through multiple mechanisms in a broadleaved subtropical forest. Oecologia, 2016, 182, 829-840.	0.9	89

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37	Linking leaf veins to growth and mortality rates: an example from a subtropical tree community. Ecology and Evolution, 2016, 6, 6085-6096.	0.8	23
38	Plant functional traits have globally consistent effects on competition. Nature, 2016, 529, 204-207.	13.7	655
39	Closely-related taxa influence woody species discrimination via DNA barcoding: evidence from global forest dynamics plots. Scientific Reports, 2015, 5, 15127.	1.6	23
40	An estimate of the number of tropical tree species. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7472-7477.	3.3	335
41	Seed size and the evolution of leaf defences. Journal of Ecology, 2015, 103, 1057-1068.	1.9	8
42	Longâ€term changes in liana loads and tree dynamics in a Malaysian forest. Ecology, 2015, 96, 2748-2757.	1.5	46
43	<scp>CTFS</scp>â€Forest<scp>GEO</scp>: a worldwide network monitoring forests in an era of global change. Global Change Biology, 2015, 21, 528-549.	4.2	473
44	Linking functional traits and demographic rates in a subtropical tree community: the importance of size dependency. Journal of Ecology, 2014, 102, 641-650.	1.9	95
45	Scaleâ€dependent relationships between tree species richness and ecosystem function in forests. Journal of Ecology, 2013, 101, 1214-1224.	1.9	265
46	Flowering and Fruiting Patterns in a Subtropical Rain Forest, <scp>T</scp>aiwan. Biotropica, 2013, 45, 165-174.	0.8	24
47	Traitâ€mediated effects of environmental filtering on tree community dynamics. Journal of Ecology, 2013, 101, 722-733.	1.9	55
48	Quantifying effects of habitat heterogeneity and other clustering processes on spatial distributions of tree species. Ecology, 2013, 94, 2436-2443.	1.5	63
49	The variation of tree beta diversity across a global network of forest plots. Global Ecology and Biogeography, 2012, 21, 1191-1202.	2.7	135
50	Topographic and biotic regulation of aboveground carbon storage in subtropical broad-leaved forests of Taiwan. Forest Ecology and Management, 2011, 262, 1817-1825.	1.4	80
51	Abundance of insect seed predators and intensity of seed predation on Shorea (Dipterocarpaceae) in two consecutive masting events in Peninsular Malaysia. Journal of Tropical Ecology, 2011, 27, 651-655.	0.5	10
52	Partitioning beta diversity in a subtropical broadâ€leaved forest of China. Ecology, 2009, 90, 663-674.	1.5	520
53	Temporal and spatial variability in seedling dynamics: a cross-site comparison in four lowland tropical forests. Journal of Tropical Ecology, 2008, 24, 9-18.	0.5	34
54	Seed predation during general flowering events of varying magnitude in a Malaysian rain forest. Journal of Ecology, 2007, 95, 818-827.	1.9	64

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55	Testing metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. Ecology Letters, 2006, 9, 575-588.	3.0	280
56	Comparing tropical forest tree size distributions with the predictions of metabolic ecology and equilibrium models. Ecology Letters, 2006, 9, 589-602.	3.0	170
57	Nonrandom Processes Maintain Diversity in Tropical Forests. Science, 2006, 311, 527-531.	6.0	166
58	Title is missing!. Plant Ecology, 1997, 132, 229-241.	0.7	104