

Pei-Jian Shi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,278
citations

20
h-index

28
g-index

97
ext. papers

1,637
ext. citations

3.1
avg, IF

4.99
L-index

#	Paper	IF	Citations
92	A comparison of different thermal performance functions describing temperature-dependent development rates. <i>Journal of Thermal Biology</i> , 2010 , 35, 225-231	2.9	66
91	A simple model for describing the effect of temperature on insect developmental rate. <i>Journal of Asia-Pacific Entomology</i> , 2011 , 14, 15-20	1.4	54
90	Leaf Fresh Weight Versus Dry Weight: Which is Better for Describing the Scaling Relationship between Leaf Biomass and Leaf Area for Broad-Leaved Plants?. <i>Forests</i> , 2019 , 10, 256	2.8	46
89	Exploring key cellular processes and candidate genes regulating the primary thickening growth of Moso underground shoots. <i>New Phytologist</i> , 2017 , 214, 81-96	9.8	45
88	A Modified Program for Estimating the Parameters of the SSI Model. <i>Environmental Entomology</i> , 2011 , 40, 462-469	2.1	43
87	A General Leaf Area Geometric Formula Exists for Plants Evidence from the Simplified Gielis Equation. <i>Forests</i> , 2018 , 9, 714	2.8	37
86	Comparison of Thermal Performance Equations in Describing Temperature-Dependent Developmental Rates of Insects: (I) Empirical Models. <i>Annals of the Entomological Society of America</i> , 2016 , 109, 211-215	2	36
85	Comparison of dwarf bamboos (<i>Indocalamus</i> sp.) leaf parameters to determine relationship between spatial density of plants and total leaf area per plant. <i>Ecology and Evolution</i> , 2015 , 5, 4578-89	2.8	35
84	Capturing spiral radial growth of conifers using the superellipse to model tree-ring geometric shape. <i>Frontiers in Plant Science</i> , 2015 , 6, 856	6.2	33
83	Applications of the Bootstrap to Insect Physiology. <i>Florida Entomologist</i> , 2011 , 94, 1036-1041	1	30
82	Leaf area length allometry and its implications in leaf shape evolution. <i>Trees - Structure and Function</i> , 2019 , 33, 1073-1085	2.6	29
81	Confidence interval of intrinsic optimum temperature estimated using thermodynamic SSI model. <i>Insect Science</i> , 2013 , 20, 420-8	3.6	29
80	A geometrical model for testing bilateral symmetry of bamboo leaf with a simplified Gielis equation. <i>Ecology and Evolution</i> , 2016 , 6, 6798-6806	2.8	26
79	Proportional Relationship between Leaf Area and the Product of Leaf Length and Width of Four Types of Special Leaf Shapes. <i>Forests</i> , 2019 , 10, 178	2.8	25
78	Weakening density dependence from climate change and agricultural intensification triggers pest outbreaks: a 37-year observation of cotton bollworms. <i>Ecology and Evolution</i> , 2014 , 4, 3362-74	2.8	25
77	Timing of cherry tree blooming: Contrasting effects of rising winter low temperatures and early spring temperatures. <i>Agricultural and Forest Meteorology</i> , 2017 , 240-241, 78-89	5.8	22
76	Capture the time when plants reach their maximum body size by using the beta sigmoid growth equation. <i>Ecological Modelling</i> , 2016 , 320, 177-181	3	22

75	Lamina shape does not correlate with lamina surface area: An analysis based on the simplified Gielis equation. <i>Global Ecology and Conservation</i> , 2019 , 19, e00666	2.8	21
74	Leaf shape influences the scaling of leaf dry mass vs. area: a test case using bamboos. <i>Annals of Forest Science</i> , 2020 , 77, 1	3.1	21
73	Nondestructive estimation of leaf area for 15 species of vines with different leaf shapes. <i>American Journal of Botany</i> , 2020 , 107, 1481-1490	2.7	21
72	Why Does Not the Leaf Weight-Area Allometry of Bamboos Follow the 3/2-Power Law?. <i>Frontiers in Plant Science</i> , 2018 , 9, 583	6.2	20
71	The general ontogenetic growth model is inapplicable to crop growth. <i>Ecological Modelling</i> , 2013 , 266, 1-9	3	20
70	Comparison of Thermal Performance Equations in Describing Temperature-Dependent Developmental Rates of Insects: (II) Two Thermodynamic Models. <i>Annals of the Entomological Society of America</i> , 2017 , 110, 113-120	2	19
69	Influence of temperature on the northern distribution limits of <i>Scirpophaga incertulas</i> Walker (Lepidoptera: Pyralidae) in China. <i>Journal of Thermal Biology</i> , 2012 , 37, 130-137	2.9	19
68	Effect of temperature on the development of <i>Laodelphax striatellus</i> (Homoptera: Delphacidae). <i>Journal of Economic Entomology</i> , 2013 , 106, 107-14	2.2	19
67	Dispersal distance determines the exponent of the spatial Taylor power law. <i>Ecological Modelling</i> , 2016 , 335, 48-53	3	19
66	A Simple Method for Measuring the Bilateral Symmetry of Leaves. <i>Symmetry</i> , 2018 , 10, 118	2.7	18
65	The scaling relationships of leaf biomass vs. leaf surface area of 12 bamboo species. <i>Global Ecology and Conservation</i> , 2019 , 20, e00793	2.8	17
64	Scaling Relationships between Leaf Shape and Area of 12 Rosaceae Species. <i>Symmetry</i> , 2019 , 11, 1255	2.7	17
63	Solving the pitfalls of pitfall trapping: a two-circle method for density estimation of ground-dwelling arthropods. <i>Methods in Ecology and Evolution</i> , 2013 , 4, 865-871	7.7	16
62	Precipitation is the most crucial factor determining the distribution of moso bamboo in Mainland China. <i>Global Ecology and Conservation</i> , 2020 , 22, e00924	2.8	15
61	Does the size-density relationship developed for bamboo species conform to the self-thinning rule?. <i>Forest Ecology and Management</i> , 2016 , 361, 339-345	3.9	15
60	Could the intrinsic rate of increase represent the fitness in terrestrial ectotherms?. <i>Journal of Thermal Biology</i> , 2013 , 38, 148-151	2.9	15
59	How to compare the lower developmental thresholds. <i>Environmental Entomology</i> , 2010 , 39, 2033-8	2.1	15
58	Comparison of five methods for parameter estimation under Taylor power law. <i>Ecological Complexity</i> , 2017 , 32, 121-130	2.6	14

57	Comparison of the Scaling Relationships of Leaf Biomass versus Surface Area between Spring and Summer for Two Deciduous Tree Species. <i>Forests</i> , 2020 , 11, 1010	2.8	14
56	Taylor's Power Law for Leaf Bilateral Symmetry. <i>Forests</i> , 2018 , 9, 500	2.8	14
55	Leaf Bilateral Symmetry and the Scaling of the Perimeter vs. the Surface Area in 15 Vine Species. <i>Forests</i> , 2020 , 11, 246	2.8	13
54	On the 3/4-exponent von Bertalanffy equation for ontogenetic growth. <i>Ecological Modelling</i> , 2014 , 276, 23-28	3	13
53	Testing the rate isomorphy hypothesis using five statistical methods. <i>Insect Science</i> , 2012 , 19, 121-128	3.6	13
52	Intrinsic optimum temperature of the diamondback moth and its ecological meaning. <i>Environmental Entomology</i> , 2012 , 41, 714-22	2.1	13
51	Does the law of diminishing returns in leaf scaling apply to vines? Evidence from 12 species of climbing plants. <i>Global Ecology and Conservation</i> , 2020 , 21, e00830	2.8	13
50	The effect of temperature on the developmental rates of seedling emergence and leaf-unfolding in two dwarf bamboo species. <i>Trees - Structure and Function</i> , 2018 , 32, 751-763	2.6	12
49	A New Flexible Sigmoidal Growth Model. <i>Symmetry</i> , 2019 , 11, 204	2.7	12
48	Comparison of two ontogenetic growth equations for animals and plants. <i>Ecological Modelling</i> , 2017 , 349, 1-10	3	11
47	A general formula for calculating surface area of the similarly shaped leaves: Evidence from six Magnoliaceae species. <i>Global Ecology and Conservation</i> , 2020 , 23, e01129	2.8	11
46	Early eclosion of overwintering cotton bollworm moths from warming temperatures accentuates yield loss in wheat. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 217, 89-98	5.7	11
45	Cascade effects of crop species richness on the diversity of pest insects and their natural enemies. <i>Science China Life Sciences</i> , 2014 , 57, 718-25	8.5	11
44	The Generalized Gielis Geometric Equation and Its Application. <i>Symmetry</i> , 2020 , 12, 645	2.7	10
43	The seesaw effect of winter temperature change on the recruitment of cotton bollworms <i>Helicoverpa armigera</i> through mismatched phenology. <i>Ecology and Evolution</i> , 2015 , 5, 5652-61	2.8	10
42	Common-intersection hypothesis of development rate lines of ectotherms within a taxon revisited. <i>Journal of Thermal Biology</i> , 2011 , 36, 422-429	2.9	10
41	Increase in Absolute Leaf Water Content Tends to Keep Pace with That of Leaf Dry Mass Evidence from Bamboo Plants. <i>Symmetry</i> , 2020 , 12, 1345	2.7	10
40	Comparison of Thermal Performance Equations in Describing Temperature-Dependent Developmental Rates of Insects: (III) Phenological Applications. <i>Annals of the Entomological Society of America</i> , 2017 , 110, 558-564	2	9

39	Internode morphometrics and allometry of Tonkin Cane. <i>Ecology and Evolution</i> , 2017 , 7, 9651-9660	2.8	9
38	Population decrease of <i>Scirpophaga incertulas</i> Walker (Lepidoptera Pyralidae) under climate warming. <i>Ecology and Evolution</i> , 2012 , 2, 58-64	2.8	9
37	Leaf size estimation based on leaf length, width and shape. <i>Annals of Botany</i> , 2021 , 128, 395-406	4.1	9
36	Seed handling by primary frugivores differentially influence post-dispersal seed removal of Chinese yew by ground-dwelling animals. <i>Integrative Zoology</i> , 2016 , 11, 191-8	1.9	9
35	A Superellipse with Deformation and Its Application in Describing the Cross-Sectional Shapes of a Square Bamboo. <i>Symmetry</i> , 2020 , 12, 2073	2.7	8
34	Comparison of seed morphology of two ginkgo cultivars. <i>Journal of Forestry Research</i> , 2020 , 31, 751-758 ₂		8
33	Influence of leaf shape on the scaling of leaf surface area and length in bamboo plants. <i>Trees - Structure and Function</i> , 2021 , 35, 709-715	2.6	8
32	Effects of Salt Stress on the Leaf Shape and Scaling of <i>Pyrus betulifolia</i> Bunge. <i>Symmetry</i> , 2019 , 11, 991	2.7	7
31	Plant Age Has a Minor Effect on Non-Destructive Leaf Area Calculations in Moso Bamboo (<i>Phyllostachys edulis</i>). <i>Symmetry</i> , 2021 , 13, 369	2.7	7
30	An optimal proportion of mixing broad-leaved forest for enhancing the effective productivity of moso bamboo. <i>Ecology and Evolution</i> , 2015 , 5, 1576-84	2.8	6
29	A Note on Spirals and Curvature 2020 , 1, 1		5
28	Can Leaf Shape be Represented by the Ratio of Leaf Width to Length? Evidence from Nine Species of <i>Magnolia</i> and <i>Michelia</i> (Magnoliaceae). <i>Forests</i> , 2021 , 12, 41	2.8	5
27	Mean-variance relationships of leaf bilateral asymmetry for 35 species of plants and their implications. <i>Global Ecology and Conservation</i> , 2020 , 23, e01152	2.8	5
26	Taylor's power law in the Wenchuan earthquake sequence with fluctuation scaling. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 1119-1127	3.9	4
25	Comparison of the intrinsic optimum temperatures for seed germination between two bamboo species based on a thermodynamic model. <i>Global Ecology and Conservation</i> , 2019 , 17, e00568	2.8	4
24	"Diminishing returns" for leaves of five age-groups of <i>Phyllostachys edulis</i> culms. <i>American Journal of Botany</i> , 2021 , 108, 1662-1672	2.7	4
23	Influence of the physical dimension of leaf size measures on the goodness of fit for Taylor's power law using 101 bamboo taxa. <i>Global Ecology and Conservation</i> , 2019 , 19, e00657	2.8	3
22	Nonparametric Estimation of Interspecific Spatio-Temporal Niche Separation Between Two Lady Beetles (Coleoptera: Coccinellidae) in Bt Cotton Fields. <i>Annals of the Entomological Society of America</i> , 2015 , 108, 807-813	2	3

21	Simulation of crop growth, time to maturity and yield by an improved sigmoidal model. <i>Scientific Reports</i> , 2018 , 8, 7030	4.9	3
20	Influence of air temperature on the first flowering date of <i>Prunus yedoensis</i> Matsum. <i>Ecology and Evolution</i> , 2014 , 4, 292-9	2.8	3
19	An elliptical blade is not a true ellipse, but a superellipse—Evidence from two <i>Michelia</i> species. <i>Journal of Forestry Research</i> , 1	2	3
18	A general method for parameter estimation in light-response models. <i>Scientific Reports</i> , 2016 , 6, 27905	4.9	2
17	An Optimization Approach to the Two-Circle Method of Estimating Ground-Dwelling Arthropod Densities. <i>Florida Entomologist</i> , 2014 , 97, 644-652	1	2
16	Spatial Segregation Facilitates the Coexistence of Tree Species in Temperate Forests. <i>Forests</i> , 2018 , 9, 768	2.8	2
15	Spatial distribution characteristics of stomata at the areole level in <i>Michelia cavaleriei</i> var. <i>platypetala</i> (Magnoliaceae). <i>Annals of Botany</i> , 2021 , 128, 875-886	4.1	2
14	A General Model for Describing the Ovate Leaf Shape. <i>Symmetry</i> , 2021 , 13, 1524	2.7	2
13	Scaling relationships of leaf vein and areole traits versus leaf size for nine Magnoliaceae species differing in venation density.. <i>American Journal of Botany</i> , 2022 ,	2.7	2
12	Ellipticalness index \bar{E} a simple measure of the complexity of oval leaf shape. <i>Pakistan Journal of Botany</i> , 2022 , 54,	2	2
11	A Commensal Consumer-Induced Mediation Effects on Resource-Consumer Interactions. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2013 , 83, 385-404	1.4	1
10	Diminishing returns among lamina fresh and dry mass, surface area, and petiole fresh mass among nine Lauraceae species.. <i>American Journal of Botany</i> , 2022 ,	2.7	1
9	Capturing the interaction types of two Bt toxins Cry1Ac and Cry2Ab on suppressing the cotton bollworm by using multi-exponential equations. <i>Insect Science</i> , 2016 , 23, 649-54	3.6	1
8	Variation in individual biomass decreases faster than mean biomass with increasing density of bamboo stands. <i>Journal of Forestry Research</i> , 2020 , 31, 981-987	2	1
7	Evidence That Supertriangles Exist in Nature from the Vertical Projections of <i>Koelreuteria paniculata</i> Fruit. <i>Symmetry</i> , 2022 , 14, 23	2.7	1
6	Application of an Ovate Leaf Shape Model to Evaluate Leaf Bilateral Asymmetry and Calculate Lamina Centroid Location.. <i>Frontiers in Plant Science</i> , 2021 , 12, 822907	6.2	0
5	Investigating the Shape of the Shoot Apical Meristem in Bamboo Using a Superellipse Equation. <i>Bio-protocol</i> , 2017 , 7, e2644	0.9	0
4	A nondestructive method of calculating the wing area of insects.. <i>Ecology and Evolution</i> , 2022 , 12, e87922.8	2.8	0

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| 3 | Influence of Leaf Age on the Scaling Relationships of Lamina Mass vs. Area.. <i>Frontiers in Plant Science</i> , 2022 , 13, 860206 | 6.2 | o |
| 2 | Comparison of a universal (but complex) model for avian egg shape with a simpler model. <i>Annals of the New York Academy of Sciences</i> , | 6.5 | o |
| 1 | Peer review report 2 on Drought explains variation in the radial growth of white spruce in western Canada <i>Agricultural and Forest Meteorology</i> , 2016 , 217, 536 | 5.8 | |