

# Charles A Price

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4663852/publications.pdf>

Version: 2024-02-01

26  
papers

2,312  
citations

471509

17  
h-index

552781

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

4271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Opportunities for improving phosphorus use efficiency in crop plants. <i>New Phytologist</i> , 2012, 195, 306-320.	7.3	702
2	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012, 21, 798-808.	5.8	235
3	The role of root exuded low molecular weight organic anions in facilitating petroleum hydrocarbon degradation: Current knowledge and future directions. <i>Science of the Total Environment</i> , 2014, 472, 642-653.	8.0	211
4	Testing the metabolic theory of ecology. <i>Ecology Letters</i> , 2012, 15, 1465-1474.	6.4	155
5	A general model for allometric covariation in botanical form and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13204-13209.	7.1	152
6	Optimal allocation of leaf epidermal area for gas exchange. <i>New Phytologist</i> , 2016, 210, 1219-1228.	7.3	139
7	The metabolic theory of ecology: prospects and challenges for plant biology. <i>New Phytologist</i> , 2010, 188, 696-710.	7.3	102
8	Leaf Extraction and Analysis Framework Graphical User Interface: Segmenting and Analyzing the Structure of Leaf Veins and Areoles $\dot{\text{A}}\dot{\text{A}}$ . <i>Plant Physiology</i> , 2011, 155, 236-245.	4.8	100
9	SCALING MASS AND MORPHOLOGY IN LEAVES: AN EXTENSION OF THE WBE MODEL. <i>Ecology</i> , 2007, 88, 1132-1141.	3.2	95
10	Evaluating scaling models in biology using hierarchical Bayesian approaches. <i>Ecology Letters</i> , 2009, 12, 641-651.	6.4	60
11	Apparent Overinvestment in Leaf Venation Relaxes Leaf Morphological Constraints on Photosynthesis in Arid Habitats. <i>Plant Physiology</i> , 2016, 172, 2286-2299.	4.8	59
12	Scaling and structure of dicotyledonous leaf venation networks. <i>Ecology Letters</i> , 2012, 15, 87-95.	6.4	51
13	Are leaf functional traits "invariant" with plant size and what is "invariance" anyway?. <i>Functional Ecology</i> , 2014, 28, 1330-1343.	3.6	46
14	The Influence of Branch Order on Optimal Leaf Vein Geometries: Murray's Law and Area Preserving Branching. <i>PLoS ONE</i> , 2013, 8, e85420.	2.5	33
15	Managing Non-Native Plant Populations Through Intensive Community Restoration in Cades Cove, Great Smoky Mountains National Park, U.S.A.. <i>Restoration Ecology</i> , 2003, 11, 351-358.	2.9	24
16	Allometric covariation: a hallmark behavior of plants and leaves. <i>New Phytologist</i> , 2012, 193, 882-889.	7.3	21
17	Costs and benefits of reticulate leaf venation. <i>BMC Plant Biology</i> , 2014, 14, 234.	3.6	20
18	The underlying basis for the tradeoff between leaf size and leafing intensity. <i>Functional Ecology</i> , 2016, 30, 199-205.	3.6	20

#	ARTICLE	IF	CITATIONS
19	Isometric partitioning of hydraulic conductance between leaves and stems: balancing safety and efficiency in different growth forms and habitats. <i>Plant, Cell and Environment</i> , 2015, 38, 1628-1636.	5.7	17
20	Estimates of Leaf Vein Density Are Scale Dependent. <i>Plant Physiology</i> , 2014, 164, 173-180.	4.8	16
21	Reading the leaves: A comparison of leaf rank and automated areole measurement for quantifying aspects of leaf venation. <i>Applications in Plant Sciences</i> , 2014, 2, 1400006.	2.1	15
22	Zero-sum allocational strategies determine the allometry of specific leaf area. <i>American Journal of Botany</i> , 2010, 97, 1808-1815.	1.7	12
23	LEAF GUI: Analyzing the Geometry of Veins and Areoles Using Image Segmentation Algorithms. <i>Methods in Molecular Biology</i> , 2012, 918, 41-49.	0.9	10
24	Low resource availability limits weed invasion of tropical savannas. <i>Biological Invasions</i> , 2018, 20, 861-875.	2.4	9
25	Evaluating general allometric models: interspecific and intraspecific data tell different stories due to interspecific variation in stem tissue density and leaf size. <i>Oecologia</i> , 2016, 180, 671-684.	2.0	4
26	On the relationships between size and abundance in plants: beyond forest communities. <i>Ecosphere</i> , 2019, 10, e02856.	2.2	4