

# Qingfeng Song

## List of Publications by Year in descending order

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27  
papers

934  
citations

623734

14  
h-index

580821

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g-index

29  
all docs

29  
docs citations

29  
times ranked

1221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diurnal and Seasonal Variations of Photosynthetic Energy Conversion Efficiency of Field Grown Wheat. <i>Frontiers in Plant Science</i> , 2022, 13, 817654.	3.6	3
2	Canopy occupation volume as an indicator of canopy photosynthetic capacity. <i>New Phytologist</i> , 2021, 232, 941-956.	7.3	26
3	Decomposition analysis on soybean productivity increase under elevated CO <sub>2</sub> using 3-D canopy model reveals synergistic effects of CO <sub>2</sub> and light in photosynthesis. <i>Annals of Botany</i> , 2020, 126, 601-614.	2.9	15
4	Photosynthetic and transcriptomic responses of two C <sub>4</sub> grass species with different NaCl tolerance. <i>Journal of Plant Physiology</i> , 2020, 253, 153244.	3.5	7
5	Contrasting Responses of Plastid Terminal Oxidase Activity Under Salt Stress in Two C <sub>4</sub> Species With Different Salt Tolerance. <i>Frontiers in Plant Science</i> , 2020, 11, 1009.	3.6	9
6	Morphological and physiological factors contributing to early vigor in the elite rice cultivar 9,311. <i>Scientific Reports</i> , 2020, 10, 14813.	3.3	12
7	Overexpression of maize transcription factor mEmBP-1 increases photosynthesis, biomass, and yield in rice. <i>Journal of Experimental Botany</i> , 2020, 71, 4944-4957.	4.8	22
8	Architectural and Physiological Features to Gain High Yield in an Elite Rice Line YLY1. <i>Rice</i> , 2020, 13, 60.	4.0	6
9	Dissection of mechanisms for high yield in two elite rice cultivars. <i>Field Crops Research</i> , 2019, 241, 107563.	5.1	10
10	Systems model-guided rice yield improvements based on genes controlling source, sink, and flow. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 1154-1180.	8.5	19
11	Measuring Canopy Gas Exchange Using CANopy Photosynthesis and Transpiration Systems (CAPTS). <i>Methods in Molecular Biology</i> , 2018, 1770, 69-81.	0.9	8
12	A user-friendly means to scale from the biochemistry of photosynthesis to whole crop canopies and production in time and space – development of Java WIMOVAC. <i>Plant, Cell and Environment</i> , 2017, 40, 51-55.	5.7	9
13	Development of a Three-Dimensional Ray-Tracing Model of Sugarcane Canopy Photosynthesis and Its Application in Assessing Impacts of Varied Row Spacing. <i>Bioenergy Research</i> , 2017, 10, 626-634.	3.9	31
14	Leaf Photosynthetic Parameters Related to Biomass Accumulation in a Global Rice Diversity Survey. <i>Plant Physiology</i> , 2017, 175, 248-258.	4.8	85
15	The impact of modifying photosystem antenna size on canopy photosynthetic efficiency – Development of a new canopy photosynthesis model scaling from metabolism to canopy level processes. <i>Plant, Cell and Environment</i> , 2017, 40, 2946-2957.	5.7	81
16	ePlant for quantitative and predictive plant science research in the big data era – Lay the foundation for the future model guided crop breeding, engineering and agronomy. <i>Quantitative Biology</i> , 2017, 5, 260-271.	0.5	18
17	Rapid stomatal response to fluctuating light: an under-explored mechanism to improve drought tolerance in rice. <i>Functional Plant Biology</i> , 2016, 43, 727.	2.1	68
18	Genetics-based dynamic systems model of canopy photosynthesis: the key to improve light and resource use efficiencies for crops. <i>Food and Energy Security</i> , 2016, 5, 18-25.	4.3	25

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19	Photosynthetic and agronomic traits of an elite hybrid rice Y-Liang-You 900 with a record-high yield. <i>Field Crops Research</i> , 2016, 187, 49-57.	5.1	44
20	A new canopy photosynthesis and transpiration measurement system (CAPTS) for canopy gas exchange research. <i>Agricultural and Forest Meteorology</i> , 2016, 217, 101-107.	4.8	43
21	Optimal crop canopy architecture to maximise canopy photosynthetic CO <sub>2</sub> uptake under elevated CO <sub>2</sub> – a theoretical study using a mechanistic model of canopy photosynthesis. <i>Functional Plant Biology</i> , 2013, 40, 108.	2.1	179
22	A model of canopy photosynthesis in rice that combines sub-models of 3D plant architecture, radiation transfer, leaf energy balance and C3 photosynthesis. , 2012, , .		2
23	Elements of a dynamic systems model of canopy photosynthesis. <i>Current Opinion in Plant Biology</i> , 2012, 15, 237-244.	7.1	83
24	The next generation models for crops and agro-ecosystems. <i>Science China Information Sciences</i> , 2011, 54, 589-597.	4.3	20
25	ER71 directs mesodermal fate decisions during embryogenesis. <i>Development (Cambridge)</i> , 2011, 138, 4801-4812.	2.5	98
26	DYNAMIK: a software environment for cell DYNAMics, Motility, and Information trackIng, with an application to Ras pathways. <i>Bioinformatics</i> , 2009, 25, 2383-2388.	4.1	10
27	Tracking the Intracellular Dynamics of Transferrin-labeled QDs in Living Panc-1 Cells. , 2009, , .		0