

Qingfeng Song

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

934
citations

623734

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580821

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29
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docs citations

29
times ranked

1221
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Optimal crop canopy architecture to maximise canopy photosynthetic CO ₂ uptake under elevated CO ₂ – a theoretical study using a mechanistic model of canopy photosynthesis. <i>Functional Plant Biology</i> , 2013, 40, 108. | 2.1 | 179 |
| 2 | ER71 directs mesodermal fate decisions during embryogenesis. <i>Development (Cambridge)</i> , 2011, 138, 4801-4812. | 2.5 | 98 |
| 3 | Leaf Photosynthetic Parameters Related to Biomass Accumulation in a Global Rice Diversity Survey. <i>Plant Physiology</i> , 2017, 175, 248-258. | 4.8 | 85 |
| 4 | Elements of a dynamic systems model of canopy photosynthesis. <i>Current Opinion in Plant Biology</i> , 2012, 15, 237-244. | 7.1 | 83 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Canopy occupation volume as an indicator of canopy photosynthetic capacity. <i>New Phytologist</i> , 2021, 232, 941-956. | 7.3 | 26 |
| 11 | 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 |
| 12 | 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 |
| 13 | The next generation models for crops and agro-ecosystems. <i>Science China Information Sciences</i> , 2011, 54, 589-597. | 4.3 | 20 |
| 14 | 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 |
| 15 | 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 |
| 16 | Decomposition analysis on soybean productivity increase under elevated CO ₂ using 3-D canopy model reveals synergistic effects of CO ₂ and light in photosynthesis. <i>Annals of Botany</i> , 2020, 126, 601-614. | 2.9 | 15 |
| 17 | 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 |
| 18 | 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 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Dissection of mechanisms for high yield in two elite rice cultivars. <i>Field Crops Research</i> , 2019, 241, 107563. | 5.1 | 10 |
| 20 | 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 |
| 21 | Contrasting Responses of Plastid Terminal Oxidase Activity Under Salt Stress in Two C4 Species With Different Salt Tolerance. <i>Frontiers in Plant Science</i> , 2020, 11, 1009. | 3.6 | 9 |
| 22 | Measuring Canopy Gas Exchange Using CANopy Photosynthesis and Transpiration Systems (CAPTS). <i>Methods in Molecular Biology</i> , 2018, 1770, 69-81. | 0.9 | 8 |
| 23 | Photosynthetic and transcriptomic responses of two C4 grass species with different NaCl tolerance. <i>Journal of Plant Physiology</i> , 2020, 253, 153244. | 3.5 | 7 |
| 24 | Architectural and Physiological Features to Gain High Yield in an Elite Rice Line YLY1. <i>Rice</i> , 2020, 13, 60. | 4.0 | 6 |
| 25 | 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 |
| 26 | 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 |
| 27 | Tracking the Intracellular Dynamics of Transferrin-labeled QDs in Living Panc-1 Cells. , 2009, , . | | 0 |