Rui Xu

List of Publications by Year
in descending order

12 papers	471 citations	933447 10 h-index	1199594 12 g-index
12 all docs	12 docs citations	12 times ranked	523 citing authors

#	Article	IF	Citations
1	In-field High Throughput Phenotyping and Cotton Plant Growth Analysis Using LiDAR. Frontiers in Plant Science, 2018, 9, 16.	3.6	108
2	Aerial Images and Convolutional Neural Network for Cotton Bloom Detection. Frontiers in Plant Science, 2017, 8, 2235.	3.6	77
3	Simulation of an Autonomous Mobile Robot for LiDAR-Based In-Field Phenotyping and Navigation. Robotics, 2020, 9, 46.	3.5	59
4	Multispectral imaging and unmanned aerial systems for cotton plant phenotyping. PLoS ONE, 2019, 14, e0205083.	2.5	55
5	DeepFlower: a deep learning-based approach to characterize flowering patterns of cotton plants in the field. Plant Methods, 2020, 16, 156.	4.3	36
6	Quantitative Analysis of Cotton Canopy Size in Field Conditions Using a Consumer-Grade RGB-D Camera. Frontiers in Plant Science, 2017, 8, 2233.	3.6	33
7	Applying New Technologies to Transform Blueberry Harvesting. Agronomy, 2017, 7, 33.	3.0	27
8	Development of a Multi-Purpose Autonomous Differential Drive Mobile Robot for Plant Phenotyping and Soil Sensing. Electronics (Switzerland), 2020, 9, 1550.	3.1	22
9	A Review of High-Throughput Field Phenotyping Systems: Focusing on Ground Robots. Plant Phenomics, 2022, 2022, .	5.9	20
10	Development and Testing of a UAV-Based Multi-Sensor System for Plant Phenotyping and Precision Agriculture. Remote Sensing, 2021, 13, 3517.	4.0	16
11	A modular agricultural robotic system (MARS) for precision farming: Concept and implementation. Journal of Field Robotics, 2022, 39, 387-409.	6.0	10
12	Development of the Second Generation Berry Impact Recording Device (BIRD II). Sensors, 2015, 15, 3688-3705.	3.8	8