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