

Yan Guo

List of Publications by Year in descending order

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43
papers

1,224
citations

430754

18
h-index

477173

29
g-index

43
all docs

43
docs citations

43
times ranked

1134
citing authors

#	ARTICLE	IF	CITATIONS
1	Image-based root phenotyping for field-grown crops: An example under maize/soybean intercropping. <i>Journal of Integrative Agriculture</i> , 2022, 21, 1606-1619.	1.7	9
2	A field-based high-throughput method for acquiring canopy architecture using unmanned aerial vehicle images. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108231.	1.9	31
3	Estimating the contribution of plant traits to light partitioning in simultaneous maize/soybean intercropping. <i>Journal of Experimental Botany</i> , 2021, 72, 3630-3646.	2.4	36
4	Comparison of Modelling Strategies to Estimate Phenotypic Values from an Unmanned Aerial Vehicle with Spectral and Temporal Vegetation Indexes. <i>Remote Sensing</i> , 2021, 13, 2827.	1.8	8
5	Quantification of light interception within image-based 3-D reconstruction of sole and intercropped canopies over the entire growth season. <i>Annals of Botany</i> , 2020, 126, 701-712.	1.4	31
6	Pixel size of aerial imagery constrains the applications of unmanned aerial vehicle in crop breeding. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 154, 1-9.	4.9	41
7	Image-based dynamic quantification and high-accuracy 3D evaluation of canopy structure of plant populations. <i>Annals of Botany</i> , 2018, 121, 1079-1088.	1.4	72
8	Estimation of plant height using a high throughput phenotyping platform based on unmanned aerial vehicle and self-calibration: Example for sorghum breeding. <i>European Journal of Agronomy</i> , 2018, 95, 24-32.	1.9	122
9	Coupling individual kernel-filling processes with source-sink interactions into GREENLAB-Maize. <i>Annals of Botany</i> , 2018, 121, 961-973.	1.4	14
10	Optimizing soil-coring strategies to quantify root-length-density distribution in field-grown maize: virtual coring trials using 3-D root architecture models. <i>Annals of Botany</i> , 2018, 121, 809-819.	1.4	21
11	Quantification of differences in root system architecture under maize/soybean interspecific interactions. , 2018, , .		1
12	Important photosynthetic contribution of silique wall to seed yield-related traits in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2018, 137, 493-501.	1.6	22
13	Comparison of ground cover estimates from experiment plots in cotton, sorghum and sugarcane based on images and ortho-mosaics captured by UAV. <i>Functional Plant Biology</i> , 2017, 44, 169.	1.1	98
14	Simplification of leaf surfaces from scanned data: Effects of two algorithms on leaf morphology. <i>Computers and Electronics in Agriculture</i> , 2016, 121, 393-403.	3.7	5
15	A Comparative Study on the Uptake and Toxicity of Nickel Added in the Form of Different Salts to Maize Seedlings. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 15075-15087.	1.2	32
16	Three-dimensional architecture of axile roots of field-grown maize. <i>Plant and Soil</i> , 2015, 387, 363-377.	1.8	23
17	An integrated method for quantifying root architecture of field-grown maize. <i>Annals of Botany</i> , 2014, 114, 841-851.	1.4	46
18	Editorial of the Special Issue of the 4th International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications (PMA™12). <i>Ecological Modelling</i> , 2014, 290, 1-2.	1.2	0

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19	Maize kernel growth at different floret positions of the ear. <i>Field Crops Research</i> , 2013, 149, 177-186.	2.3	15
20	Evaluating the contribution of complementary radiation on photosynthesis of maize canopy with 3D radiative transfer model. , 2012, , .		0
21	Quantification of light absorption and photosynthesis of tobacco canopy using 3-D modeling. , 2012, , .		1
22	A Functional and Structural Mongolian Scots Pine (<i>Pinus sylvestris</i> var. <i>mongolica</i>) Model Integrating Architecture, Biomass and Effects of Precipitation. <i>PLoS ONE</i> , 2012, 7, e43531.	1.1	13
23	Plant growth and architectural modelling and its applications. <i>Annals of Botany</i> , 2011, 107, 723-727.	1.4	51
24	Assessment of the influence of global dimming on the photosynthetic production of rice based on three-dimensional modeling. <i>Science China Earth Sciences</i> , 2011, 54, 290-297.	2.3	13
25	A stochastic model of tree architecture and biomass partitioning: application to Mongolian Scots pines. <i>Annals of Botany</i> , 2011, 107, 781-792.	1.4	25
26	Modeling Branching Effects on Source-Sink Relationships of the Cotton Plant. , 2009, , .		2
27	Calibration of Topological Development in the Procedure of Parametric Identification: Application of the Stochastic GreenLab Model for <i>Pinus sylvestris</i> var. <i>mongolica</i> . , 2009, , .		2
28	Simulating the Distribution of R/FR in Maize Canopies with Monte Carlo Ray Tracing Approach. , 2009, , .		31
29	Towards Modeling and Analyzing Stem Lodging for Two Contrasting Rice Cultivars. , 2009, , .		6
30	Assessment of the Effects of Leaf Angle Combinations on Potential Photosynthesis Capacity of Rice with 3-D Models Using High Performance Computing. , 2009, , .		3
31	Coupling Process-Based Models and Plant Architectural Models: A Key Issue for Simulating Crop Production. , 2009, , 130-147.		14
32	Improving the Calibration Process of GreenLab Model on the Cotton Plant. , 2009, , 209-218.		2
33	Estimating photosynthetically active radiation distribution in maize canopies by a three-dimensional incident radiation model. <i>Functional Plant Biology</i> , 2008, 35, 867.	1.1	15
34	Comparison of architecture among different cultivars of hybrid rice using a spatial light model based on 3-D digitising. <i>Functional Plant Biology</i> , 2008, 35, 900.	1.1	73
35	Parameter Optimization and Field Validation of the Functional-Structural Model GREENLAB for Maize at Different Population Densities. <i>Annals of Botany</i> , 2007, 101, 1185-1194.	1.4	51
36	Parameter Stability of the Functional-Structural Plant Model GREENLAB as Affected by Variation within Populations, among Seasons and among Growth Stages. <i>Annals of Botany</i> , 2007, 99, 61-73.	1.4	40

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37	Modelling three-dimensional architecture of pine tree (<i>Pinus sylvestris</i> Linn.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 903-909.	0.9	4
38	Calibration of GREENLAB Model for Maize with Sparse Experimental Data. , 2006, , .		3
39	Study on the Effects of Defoliation on the Growth of Cotton Plant Using the Functional Structural Model GREENLAB. , 2006, , .		3
40	Plant Modeling and Its Applications to Agriculture. , 2006, , .		5
41	Evaluating a three dimensional model of diffuse photosynthetically active radiation in maize canopies. International Journal of Biometeorology, 2006, 50, 349-357.	1.3	35
42	Parameter Optimization and Field Validation of the Functional Structural Model GREENLAB for Maize. Annals of Botany, 2006, 97, 217-230.	1.4	177
43	New advances in virtual plant research. Science Bulletin, 2001, 46, 888-894.	1.7	28