

Jianfeng Zhou

List of Publications by Year in descending order

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69
papers

1,655
citations

236925

25
h-index

330143

37
g-index

72
all docs

72
docs citations

72
times ranked

2165
citing authors

#	ARTICLE	IF	CITATIONS
1	Yield estimation in cotton using UAV-based multi-sensor imagery. <i>Biosystems Engineering</i> , 2020, 193, 101-114.	4.3	117
2	Duplication of the IGFBP-2 Gene in Teleost Fish: Protein Structure and Functionality Conservation and Gene Expression Divergence. <i>PLoS ONE</i> , 2008, 3, e3926.	2.5	83
3	Regulation of FADS2 transcription by SREBP-1 and PPAR- α influences LC-PUFA biosynthesis in fish. <i>Scientific Reports</i> , 2017, 7, 40024.	3.3	82
4	Classification of soybean leaf wilting due to drought stress using UAV-based imagery. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105576.	7.7	63
5	Estimation of maize yield and effects of variable-rate nitrogen application using UAV-based RGB imagery. <i>Biosystems Engineering</i> , 2020, 189, 24-35.	4.3	60
6	High-throughput field phenotyping in dry bean using small unmanned aerial vehicle based multispectral imagery. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 84-92.	7.7	50
7	Automated segmentation of soybean plants from 3D point cloud using machine learning. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 143-153.	7.7	50
8	Yield estimation of soybean breeding lines under drought stress using unmanned aerial vehicle-based imagery and convolutional neural network. <i>Biosystems Engineering</i> , 2021, 204, 90-103.	4.3	50
9	Estimation of the Maturity Date of Soybean Breeding Lines Using UAV-Based Multispectral Imagery. <i>Remote Sensing</i> , 2019, 11, 2075.	4.0	49
10	Evaluation of cotton emergence using UAV-based imagery and deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 177, 105711.	7.7	48
11	Selective Phenotyping Traits Related to Multiple Stress and Drought Response in Dry Bean. <i>Crop Science</i> , 2016, 56, 1460-1472.	1.8	42
12	Analysis of shaking-induced cherry fruit motion and damage. <i>Biosystems Engineering</i> , 2016, 144, 105-114.	4.3	42
13	Spatially and temporally resolved gas distributions around heterogeneous catalysts using infrared planar laser-induced fluorescence. <i>Nature Communications</i> , 2015, 6, 7076.	12.8	41
14	Effect of catching surface and tilt angle on bruise damage of sweet cherry due to mechanical impact. <i>Computers and Electronics in Agriculture</i> , 2016, 121, 282-289.	7.7	39
15	Novel in Situ Techniques for Studies of Model Catalysts. <i>Accounts of Chemical Research</i> , 2017, 50, 2326-2333.	15.6	39
16	Low altitude remote sensing technologies for crop stress monitoring: a case study on spatial and temporal monitoring of irrigated pinto bean. <i>Precision Agriculture</i> , 2018, 19, 555-569.	6.0	37
17	Ror2 Receptor Mediates Wnt11 Ligand Signaling and Affects Convergence and Extension Movements in Zebrafish. <i>Journal of Biological Chemistry</i> , 2014, 289, 20664-20676.	3.4	36
18	Quinoxalinone (Part II). Discovery of (Z)-3-(2-(pyridin-4-yl)vinyl)quinoxalinone derivatives as potent VEGFR-2 kinase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1840-1852.	3.0	36

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19	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. <i>ACS Catalysis</i> , 2017, 7, 110-114.	11.2	36
20	Early corn stand count of different cropping systems using UAV-imagery and deep learning. <i>Computers and Electronics in Agriculture</i> , 2021, 186, 106214.	7.7	34
21	Development of an automated phenotyping platform for quantifying soybean dynamic responses to salinity stress in greenhouse environment. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 319-330.	7.7	33
22	Systematic genome editing of the genes on zebrafish Chromosome 1 by CRISPR/Cas9. <i>Genome Research</i> , 2020, 30, 118-126.	5.5	32
23	2D and 3D imaging of the gas phase close to an operating model catalyst by planar laser induced fluorescence. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 453002.	1.8	30
24	Cotton Yield Estimation from UAV-Based Plant Height. <i>Transactions of the ASABE</i> , 2019, 62, 393-404.	1.1	30
25	Towards precision spray applications to prevent rain-induced sweet cherry cracking: Understanding calcium washout due to rain and fruit cracking susceptibility. <i>Scientia Horticulturae</i> , 2016, 203, 152-157.	3.6	28
26	The Stress-Response Gene <i>redd1</i> Regulates Dorsoventral Patterning by Antagonizing Wnt/ β -catenin Activity in Zebrafish. <i>PLoS ONE</i> , 2012, 7, e52674.	2.5	26
27	Pregnancy-associated Plasma Protein A (PAPP-A) Modulates the Early Developmental Rate in Zebrafish Independently of Its Proteolytic Activity. <i>Journal of Biological Chemistry</i> , 2013, 288, 9982-9992.	3.4	24
28	Visualization of Gas Distribution in a Model AP-XPS Reactor by PLIF: CO Oxidation over a Pd(100) Catalyst. <i>Catalysts</i> , 2017, 7, 29.	3.5	23
29	Evaluation of Cotton Emergence Using UAV-Based Narrow-Band Spectral Imagery with Customized Image Alignment and Stitching Algorithms. <i>Remote Sensing</i> , 2020, 12, 1764.	4.0	22
30	R-Spondin 3 Regulates Dorsoventral and Anteroposterior Patterning by Antagonizing Wnt/ β -Catenin Signaling in Zebrafish Embryos. <i>PLoS ONE</i> , 2014, 9, e99514.	2.5	22
31	Qualification of Soybean Responses to Flooding Stress Using UAV-Based Imagery and Deep Learning. <i>Plant Phenomics</i> , 2021, 2021, 9892570.	5.9	21
32	Simultaneous Imaging of Gas Phase over and Surface Reflectance of a Pd(100) Single Crystal during CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23511-23519.	3.1	20
33	Neuroprotective Role of the PI3 Kinase/Akt Signaling Pathway in Zebrafish. <i>Frontiers in Endocrinology</i> , 2017, 8, 21.	3.5	20
34	Structural and Functional Analysis of the Amphioxus IGFBP Gene Uncovers Ancient Origin of IGF-Independent Functions. <i>Endocrinology</i> , 2013, 154, 3753-3763.	2.8	19
35	A convenient setup for laser-induced fluorescence imaging of both CO and CO ₂ during catalytic CO oxidation. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	19
36	Irrigated pinto bean crop stress and yield assessment using ground based low altitude remote sensing technology. <i>Information Processing in Agriculture</i> , 2019, 6, 502-514.	4.1	17

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37	Evaluation of ground, proximal and aerial remote sensing technologies for crop stress monitoring. IFAC-PapersOnLine, 2016, 49, 22-26.	0.9	15
38	Evaluating Geometric Measurement Accuracy Based on 3D Reconstruction of Automated Imagery in a Greenhouse. Sensors, 2018, 18, 2270.	3.8	14
39	Nondestructive phenotyping fatty acid trait of single soybean seeds using reflective hyperspectral imagery. Journal of Food Process Engineering, 2021, 44, e13759.	2.9	14
40	Aspp2 negatively regulates body growth but not developmental timing by modulating IRS signaling in zebrafish embryos. General and Comparative Endocrinology, 2014, 197, 82-91.	1.8	13
41	Evaluation of water-use efficiency in foxtail millet (<i>Setaria italica</i>) using visible-near infrared and thermal spectral sensing techniques. Talanta, 2016, 152, 531-539.	5.5	13
42	Development of an automated plant phenotyping system for evaluation of salt tolerance in soybean. Computers and Electronics in Agriculture, 2021, 182, 106001.	7.7	13
43	Development of an Automated High- Throughput Phenotyping System for Wheat Evaluation in a Controlled Environment. Transactions of the ASABE, 2019, 62, 61-74.	1.1	12
44	Corn emergence uniformity estimation and mapping using UAV imagery and deep learning. Computers and Electronics in Agriculture, 2022, 198, 107008.	7.7	12
45	Field evaluation of a mechanical-assist cherry harvesting system. Engineering in Agriculture, Environment and Food, 2016, 9, 324-331.	0.5	11
46	Glutathione peroxidase 4 inhibits Wnt/ β -catenin signaling and regulates dorsal organizer formation in zebrafish embryos. Development (Cambridge), 2017, 144, 1687-1697.	2.5	11
47	Quantifying Variation in Soybean Due to Flood Using a Low-Cost 3D Imaging System. Sensors, 2019, 19, 2682.	3.8	11
48	VBP1 modulates Wnt/ β -catenin signaling by mediating the stability of the transcription factors TCF/LEFs. Journal of Biological Chemistry, 2020, 295, 16826-16839.	3.4	9
49	Combining synchrotron light with laser technology in catalysis research. Journal of Synchrotron Radiation, 2018, 25, 1389-1394.	2.4	9
50	Investigation of roâ€vibrational spectra of small hydrocarbons at elevated temperatures using infrared degenerate fourâ€wave mixing. Journal of Raman Spectroscopy, 2016, 47, 1130-1139.	2.5	8
51	Differentiate Soybean Response to Off-Target Dicamba Damage Based on UAV Imagery and Machine Learning. Remote Sensing, 2022, 14, 1618.	4.0	8
52	Talaverrucin A, Heterodimeric Oxaphenalenone from Antarctica Sponge-Derived Fungus <i>Talaromyces</i> sp. HDN151403, Inhibits Wnt/ β -Catenin Signaling Pathway. Organic Letters, 2022, 24, 3993-3997.	4.6	8
53	Eukaryotic initiation factor 4A3 inhibits Wnt/ β -catenin signaling and regulates axis formation in zebrafish embryos. Development (Cambridge), 2021, 148, .	2.5	6
54	Digital Agriculture Infrastructure in the USA and Germany. Engineering Proceedings, 2021, 9, .	0.4	6

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55	Combining Planar Laser-Induced Fluorescence with Stagnation Point Flows for Small Single-Crystal Model Catalysts: CO Oxidation on a Pd(100). <i>Catalysts</i> , 2019, 9, 484.	3.5	5
56	Improve Soybean Variety Selection Accuracy Using UAV-Based High-Throughput Phenotyping Technology. <i>Frontiers in Plant Science</i> , 2021, 12, 768742.	3.6	5
57	Differential responses of soybean genotypes to off-target dicamba damage. <i>Crop Science</i> , 2022, 62, 1472-1483.	1.8	5
58	IGF-II-mediated downregulation of peroxisome proliferator-activated receptor- β coactivator-1 in myoblast cells involves PI3K/Akt/FoxO1 signaling pathway. <i>Molecular and Cellular Biochemistry</i> , 2017, 432, 199-208.	3.1	4
59	Planar Laser Induced Fluorescence Applied to Catalysis. <i>Springer Series in Chemical Physics</i> , 2017, , 131-149.	0.2	4
60	In-field sensing for crop protection: Efficacy of air-blast sprayer generated crosswind in rainwater removal from cherry canopies. <i>Crop Protection</i> , 2017, 91, 27-33.	2.1	4
61	Development of Automated High-Throughput Phenotyping System for Controlled Environment Studies. , 2017, , .		4
62	Exploring Machine Learning Algorithms to Unveil Genomic Regions Associated With Resistance to Southern Root-Knot Nematode in Soybeans. <i>Frontiers in Plant Science</i> , 2022, 13, 883280.	3.6	4
63	Evaluating the Spectral Response and Yield of Soybean Following Exposure to Sublethal Rates of 2,4-D and Dicamba at Vegetative and Reproductive Growth Stages. <i>Remote Sensing</i> , 2021, 13, 3682.	4.0	3
64	Molecular, functional, and gene expression analysis of zebrafish Ror1 receptor. <i>Fish Physiology and Biochemistry</i> , 2019, 45, 355-363.	2.3	2
65	Estimation of Corn Emergence Date Using UAV Imagery. <i>Transactions of the ASABE</i> , 2021, 64, 1173-1183.	1.1	1
66	Quantifying the effects of soil texture and weather on cotton development and yield using UAV imagery. <i>Precision Agriculture</i> , 2022, 23, 1248-1275.	6.0	1
67	<i>Develop a low-cost remote monitoring and control system for poultry barn</i>. , 2017, , .		0
68	Solve the Breeder's Equation Using High-Throughput Crop Phenotyping Technology. <i>Concepts and Strategies in Plant Sciences</i> , 2021, , 1-11.	0.5	0
69	High-Throughput Crop Phenotyping Systems for Controlled Environments. <i>Concepts and Strategies in Plant Sciences</i> , 2021, , 183-208.	0.5	0