

# Jianfeng Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Differentiate Soybean Response to Off-Target Dicamba Damage Based on UAV Imagery and Machine Learning. <i>Remote Sensing</i> , 2022, 14, 1618.	4.0	8
3	Differential responses of soybean genotypes to off-target dicamba damage. <i>Crop Science</i> , 2022, 62, 1472-1483.	1.8	5
4	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
5	Corn emergence uniformity estimation and mapping using UAV imagery and deep learning. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107008.	7.7	12
6	Talaverrucin A, Heterodimeric Oxaphenalenone from Antarctica Sponge-Derived Fungus <i>Talaromyces</i> sp. HDN151403, Inhibits Wnt/ $\beta$ -Catenin Signaling Pathway. <i>Organic Letters</i> , 2022, 24, 3993-3997.	4.6	8
7	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
8	High-Throughput Crop Phenotyping Systems for Controlled Environments. <i>Concepts and Strategies in Plant Sciences</i> , 2021, , 183-208.	0.5	0
9	Development of an automated plant phenotyping system for evaluation of salt tolerance in soybean. <i>Computers and Electronics in Agriculture</i> , 2021, 182, 106001.	7.7	13
10	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
11	Eukaryotic initiation factor 4A3 inhibits Wnt/ $\beta$ -catenin signaling and regulates axis formation in zebrafish embryos. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	6
12	Nondestructive phenotyping fatty acid trait of single soybean seeds using reflective hyperspectral imagery. <i>Journal of Food Process Engineering</i> , 2021, 44, e13759.	2.9	14
13	Qualification of Soybean Responses to Flooding Stress Using UAV-Based Imagery and Deep Learning. <i>Plant Phenomics</i> , 2021, 2021, 9892570.	5.9	21
14	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
15	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
16	Estimation of Corn Emergence Date Using UAV Imagery. <i>Transactions of the ASABE</i> , 2021, 64, 1173-1183.	1.1	1
17	Digital Agriculture Infrastructure in the USA and Germany. <i>Engineering Proceedings</i> , 2021, 9, .	0.4	6
18	Improve Soybean Variety Selection Accuracy Using UAV-Based High-Throughput Phenotyping Technology. <i>Frontiers in Plant Science</i> , 2021, 12, 768742.	3.6	5

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19	Systematic genome editing of the genes on zebrafish Chromosome 1 by CRISPR/Cas9. <i>Genome Research</i> , 2020, 30, 118-126.	5.5	32
20	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
21	VBPI modulates Wnt/ $\beta$ -catenin signaling by mediating the stability of the transcription factors TCF/LEFs. <i>Journal of Biological Chemistry</i> , 2020, 295, 16826-16839.	3.4	9
22	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
23	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
24	Yield estimation in cotton using UAV-based multi-sensor imagery. <i>Biosystems Engineering</i> , 2020, 193, 101-114.	4.3	117
25	Evaluation of cotton emergence using UAV-based imagery and deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 177, 105711.	7.7	48
26	Quantifying Variation in Soybean Due to Flood Using a Low-Cost 3D Imaging System. <i>Sensors</i> , 2019, 19, 2682.	3.8	11
27	Estimation of the Maturity Date of Soybean Breeding Lines Using UAV-Based Multispectral Imagery. <i>Remote Sensing</i> , 2019, 11, 2075.	4.0	49
28	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
29	Development of an Automated High- Throughput Phenotyping System for Wheat Evaluation in a Controlled Environment. <i>Transactions of the ASABE</i> , 2019, 62, 61-74.	1.1	12
30	Cotton Yield Estimation from UAV-Based Plant Height. <i>Transactions of the ASABE</i> , 2019, 62, 393-404.	1.1	30
31	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
32	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
33	Molecular, functional, and gene expression analysis of zebrafish Ror1 receptor. <i>Fish Physiology and Biochemistry</i> , 2019, 45, 355-363.	2.3	2
34	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
35	Evaluating Geometric Measurement Accuracy Based on 3D Reconstruction of Automated Imagery in a Greenhouse. <i>Sensors</i> , 2018, 18, 2270.	3.8	14
36	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

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37	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
38	Combining synchrotron light with laser technology in catalysis research. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1389-1394.	2.4	9
39	Regulation of FADS2 transcription by SREBP-1 and PPAR- $\alpha$ influences LC-PUFA biosynthesis in fish. <i>Scientific Reports</i> , 2017, 7, 40024.	3.3	82
40	IGF-II-mediated downregulation of peroxisome proliferator-activated receptor- $\beta$ coactivator-1 in myoblast cells involves PI3K/Akt/FoxO1 signaling pathway. <i>Molecular and Cellular Biochemistry</i> , 2017, 432, 199-208.	3.1	4
41	Glutathione peroxidase 4 inhibits Wnt/ $\beta$ -catenin signaling and regulates dorsal organizer formation in zebrafish embryos. <i>Development (Cambridge)</i> , 2017, 144, 1687-1697.	2.5	11
42	Planar Laser Induced Fluorescence Applied to Catalysis. <i>Springer Series in Chemical Physics</i> , 2017, , 131-149.	0.2	4
43	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
44	Novel in Situ Techniques for Studies of Model Catalysts. <i>Accounts of Chemical Research</i> , 2017, 50, 2326-2333.	15.6	39
45	A convenient setup for laser-induced fluorescence imaging of both CO and CO <sub>2</sub> during catalytic CO oxidation. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	19
46	Strain Dependent Light-off Temperature in Catalysis Revealed by Planar Laser-Induced Fluorescence. <i>ACS Catalysis</i> , 2017, 7, 110-114.	11.2	36
47	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
48	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
49	Neuroprotective Role of the PI3 Kinase/Akt Signaling Pathway in Zebrafish. <i>Frontiers in Endocrinology</i> , 2017, 8, 21.	3.5	20
50	&lt;i&gt;Develop a low-cost remote monitoring and control system for poultry barn&lt;/i&gt;. , 2017, , .		0
51	Development of Automated High-Throughput Phenotyping System for Controlled Environment Studies. , 2017, , .		4
52	Selective Phenotyping Traits Related to Multiple Stress and Drought Response in Dry Bean. <i>Crop Science</i> , 2016, 56, 1460-1472.	1.8	42
53	Evaluation of ground, proximal and aerial remote sensing technologies for crop stress monitoring. <i>IFAC-PapersOnLine</i> , 2016, 49, 22-26.	0.9	15
54	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

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55	Analysis of shaking-induced cherry fruit motion and damage. <i>Biosystems Engineering</i> , 2016, 144, 105-114.	4.3	42
56	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
57	Field evaluation of a mechanical-assist cherry harvesting system. <i>Engineering in Agriculture, Environment and Food</i> , 2016, 9, 324-331.	0.5	11
58	Investigation of roâ€vibrational spectra of small hydrocarbons at elevated temperatures using infrared degenerate fourâ€wave mixing. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1130-1139.	2.5	8
59	Evaluation of water-use efficiency in foxtail millet ( <i>Setaria italica</i> ) using visible-near infrared and thermal spectral sensing techniques. <i>Talanta</i> , 2016, 152, 531-539.	5.5	13
60	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
61	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
62	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
63	Aspp2 negatively regulates body growth but not developmental timing by modulating IRS signaling in zebrafish embryos. <i>General and Comparative Endocrinology</i> , 2014, 197, 82-91.	1.8	13
64	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
65	R-Spondin 3 Regulates Dorsoventral and Anteroposterior Patterning by Antagonizing Wnt/ $\beta$ 2-Catenin Signaling in Zebrafish Embryos. <i>PLoS ONE</i> , 2014, 9, e99514.	2.5	22
66	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
67	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
68	The Stress-Response Gene redd1 Regulates Dorsoventral Patterning by Antagonizing Wnt/ $\beta$ 2-catenin Activity in Zebrafish. <i>PLoS ONE</i> , 2012, 7, e52674.	2.5	26
69	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