Qian Liu

List of Publications by Year
in descending order

122 papers	3,904 citations	159585 30 h-index	138484 58 g-index
124 all docs	124 docs citations	124 times ranked	4590 citing authors

#	Article	IF	Citations
1	PE-DLS: a novel method for performing real-time full-body motion reconstruction in VR based on Vive trackers. Virtual Reality, 2022, 26, 1391-1407.	6.1	6
2	Panicle-3D: A low-cost 3D-modeling method for rice panicles based on deep learning, shape from silhouette, and supervoxel clustering. Crop Journal, 2022, 10, 1386-1398.	5.2	10
3	Deep learningâ€based 3D MRI contrastâ€enhanced synthesis from a 2D noncontrast T2Flair sequence. Medical Physics, 2022, 49, 4478-4493.	3.0	8
4	No-reference image quality assessment for confocal endoscopy images with perceptual local descriptor. Journal of Biomedical Optics, 2022, 27, .	2.6	0
5	Improving Crop Nitrogen Use Efficiency Toward Sustainable Green Revolution. Annual Review of Plant Biology, 2022, 73, 523-551.	18.7	65
6	An integrated rice panicle phenotyping method based on X-ray and RGB scanning and deep learning. Crop Journal, 2021, 9, 42-56.	5.2	23
7	Using deep learning algorithms to perform accurate spectral classification. Optik, 2021, 231, 166423.	2.9	4
8	Nanoparticle-based approaches to target the lymphatic system for antitumor treatment. Cellular and Molecular Life Sciences, 2021, 78, 5139-5161.	5.4	17
9	Controlled synthesis of Cu-based SAPO-18/34 intergrowth zeolites for selective catalytic reduction of NOx by ammonia. Journal of Hazardous Materials, 2021, 414, 125543.	12.4	37
10	Combining UAVâ€RGB highâ€throughput field phenotyping and genomeâ€wide association study to reveal genetic variation of rice germplasms in dynamic response to drought stress. New Phytologist, 2021, 232, 440-455.	7.3	31
11	500â€‰â€‰Î¼m field-of-view probe-based confocal microendoscope for large-area visualization in the gastrointestinal tract. Photonics Research, 2021, 9, 1829.	7.0	8
12	PocketMaize: An Android-Smartphone Application for Maize Plant Phenotyping. Frontiers in Plant Science, 2021, 12, 770217.	3.6	2
13	Mir-331-3p Inhibits PRRSV-2 Replication and Lung Injury by Targeting PRRSV-2 ORF1b and Porcine TNF-Î±. Frontiers in Immunology, 2020, 11, 547144.	4.8	17
14	Improving coordination of plant growth and nitrogen metabolism for sustainable agriculture. ABIOTECH, 2020, 1, 255-275.	3.9	20
15	Highâ€throughput phenotyping accelerates the dissection of the dynamic genetic architecture of plant growth and yield improvement in rapeseed. Plant Biotechnology Journal, 2020, 18, 2345-2353.	8.3	29
16	Accurate Neuronal Soma Segmentation Using 3D Multi-Task Learning U-Shaped Fully Convolutional Neural Networks. Frontiers in Neuroanatomy, 2020, 14, 592806.	1.7	6
17	Nondestructive 3D Image Analysis Pipeline to Extract Rice Grain Traits Using X-Ray Computed Tomography. Plant Phenomics, 2020, 2020, 3414926.	5.9	25
18	A micron precision fiber bundle coupler for confocal endomicroscope. , 2020, , .		0

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19	Advanced endoscopic methods in gastrointestinal diseases: a systematic review. Quantitative Imaging in Medicine and Surgery, 2019, 9, 905-920.	2.0	29
20	Combining high-throughput micro-CT-RGB phenotyping and genome-wide association study to dissect the genetic architecture of tiller growth in rice. Journal of Experimental Botany, 2019, 70, 545-561.	4.8	54
21	Genome-Wide Association Studies of Image Traits Reveal Genetic Architecture of Drought Resistance in Rice. Molecular Plant, 2018, 11, 789-805.	8.3	151
22	Integrating viscoelastic mass spring dampers into position-based dynamics to simulate soft tissue deformation in real time. Royal Society Open Science, 2018, 5, 171587.	2.4	17
23	Transgenic expression of plastidic glutamine synthetase increases nitrogen uptake and yield in wheat. Plant Biotechnology Journal, 2018, 16, 1858-1867.	8.3	101
24	Real-time inextensible surgical thread simulation. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1019-1035.	2.8	13
25	The importance of gastrointestinal presentation for understanding respiratory virus infection in patients with acute respiratory illness: a cross-sectional study in Guangzhou. Journal of Epidemiological Research, 2018, 4, 18.	0.6	0
26	Near-infrared probe-based confocal microendoscope for deep-tissue imaging. Biomedical Optics Express, 2018, 9, 5011.	2.9	22
27	COMPARISON OF ORGAN DOSES IN HUMAN PHANTOMS: VARIATIONS DUE TO BODY SIZE AND POSTURE. Radiation Protection Dosimetry, 2017, 174, ncw081.	0.8	1
28	High-Throughput Phenotyping and QTL Mapping Reveals the Genetic Architecture of Maize Plant Growth. Plant Physiology, 2017, 173, 1554-1564.	4.8	179
29	Virtual Laparoscopic Training System Based on VCH Model. Journal of Medical Systems, 2017, 41, 58.	3.6	5
30	A high-throughput stereo-imaging system for quantifying rape leaf traits during the seedling stage. Plant Methods, 2017, 13, 7.	4.3	59
31	Touching Soma Segmentation Based on the Rayburst Sampling Algorithm. Neuroinformatics, 2017, 15, 383-393.	2.8	5
32	An integrated hyperspectral imaging and genome-wide association analysis platform provides spectral and genetic insights into the natural variation in rice. Scientific Reports, 2017, 7, 4401.	3.3	32
33	Panicle-SEG: a robust image segmentation method for rice panicles in the field based on deep learning and superpixel optimization. Plant Methods, 2017, 13, 104.	4.3	134
34	Accurate Digitization of the Chlorophyll Distribution of Individual Rice Leaves Using Hyperspectral Imaging and an Integrated Image Analysis Pipeline. Frontiers in Plant Science, 2017, 8, 1238.	3.6	21
35	Visible continuum pulses based on enhanced dispersive wave generation for endogenous fluorescence imaging. Biomedical Optics Express, 2017, 8, 4026.	2.9	6
36	The influence of physique on dose conversion coefficients for idealised external photon exposures: a comparison of doses for Chinese male phantoms with 10th, 50th and 90th percentile anthropometric parameters. Journal of Radiation Research, 2017, 58, 737-744.	1.6	2

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37	Shanghai Score. Chinese Medical Journal, 2017, 130, 2650-2660.	2.3	18
38	Analysis of aluminum protective effect for female astronauts in solar particle events. Nuclear Technology and Radiation Protection, 2017, 32, 44-51.	0.8	2
39	Monte Carlo Simulations for Dosimetry in Prostate Radiotherapy with Different Intravesical Volumes and Planning Target Volume Margins. PLoS ONE, 2016, 11, e0159497.	2.5	1
40	High-throughput volumetric reconstruction for 3D wheat plant architecture studies. Journal of Innovative Optical Health Sciences, 2016, 09, 1650037.	1.0	27
41	Five-lens, easy-to-implement miniature objective for a fluorescence confocal microendoscope. Optics Express, 2016, 24, 473.	3.4	21
42	A high-throughput imaging facility for evaluation of oilseed rape biomass related traits. , 2016, , .		1
43	A Confocal Endoscope for Cellular Imaging. Engineering, 2015, 1, 351-360.	6.7	19
44	Determination of rice panicle numbers during heading by multi-angle imaging. Crop Journal, 2015, 3, 211-219.	5.2	53
45	A Web Service System Supporting Three-dimensional Post-processing of Medical Images Based on WADO Protocol. Journal of Medical Systems, 2015, 39, 6.	3.6	8
46	A nondestructive method for estimating the total green leaf area of individual rice plants using multi-angle color images. Journal of Innovative Optical Health Sciences, 2015, 08, 1550002.	1.0	3
47	Genome-wide association study of rice (<i>Oryza sativa</i>L.) leaf traits with a high-throughput leaf scorer. Journal of Experimental Botany, 2015, 66, 5605-5615.	4.8	79
48	High yield and efficient expression and purification of the human 5-HT3A receptor. Acta Pharmacologica Sinica, 2015, 36, 1024-1032.	6.1	7
49	Cerebral venous dynamics in newborn mice with intracranial hemorrhage studied using wavelets. , 2015, , .		1
50	Detrended fluctuation analysis of cerebral venous dynamics in newborn mice with intracranial hemorrhage. , 2015, , .		1
51	High-Throughput Estimation of Yield for Individual Rice Plant Using Multi-angle RGB Imaging. IFIP Advances in Information and Communication Technology, 2015, , 1-12.	0.7	3
52	Development of Chinese reference man deformable surface phantom and its application to the influence of physique on electromagnetic dosimetry. Physics in Medicine and Biology, 2015, 60, 6833-6846.	3.0	12
53	Identifying Prognostic Features by Bottom-Up Approach and Correlating to Drug Repositioning. PLoS ONE, 2015, 10, e0118672.	2.5	12
54	Indian-Ink Perfusion Based Method for Reconstructing Continuous Vascular Networks in Whole Mouse Brain. PLoS ONE, 2014, 9, e88067.	2.5	49

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55	A service protocol for post-processing of medical images on the mobile device. , 2014, , .		0
56	A Novel Design and Optimization Method of an LCL Filter for a Shunt Active Power Filter. IEEE Transactions on Industrial Electronics, 2014, 61, 4000-4010.	7.9	132
57	Red bone marrow dose calculations in radiotherapy of prostate cancer based on the updated VCH adult male phantom. Physics in Medicine and Biology, 2014, 59, 1815-1830.	3.0	2
58	Combining high-throughput phenotyping and genome-wide association studies to reveal natural genetic variation in rice. Nature Communications, 2014, 5, 5087.	12.8	490
59	Multiresolution analysis of pathological changes in cerebral venous dynamics in newborn mice with intracranial hemorrhage: adrenorelated vasorelaxation. Physiological Measurement, 2014, 35, 1983-1999.	2.1	19
60	A Medical Application Integrating Remote 3D Visualization Tools to Access Picture Archiving and Communication System on Mobile Devices. Journal of Medical Systems, 2014, 38, 44.	3.6	8
61	SysPTM 2.0: an updated systematic resource for post-translational modification. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau025-bau025.	3.0	58
62	Development of a whole-feeding and automatic rice thresher for single plant. Mathematical and Computer Modelling, 2013, 58, 684-690.	2.0	7
63	Rice panicle length measuring system based on dual-camera imaging. Computers and Electronics in Agriculture, 2013, 98, 158-165.	7.7	26
64	Rapid tracking of vascular tree in angiography images based on adaptive sampling. , 2013, , .		0
65	Plant phenomics and high-throughput phenotyping: accelerating rice functional genomics using multidisciplinary technologies. Current Opinion in Plant Biology, 2013, 16, 180-187.	7.1	216
66	Construction of boundary-surface-based Chinese female astronaut computational phantom and proton dose estimation. Journal of Radiation Research, 2013, 54, 383-397.	1.6	13
67	Bowtie filtration for dedicated cone beam CT of the head and neck: a simulation study. British Journal of Radiology, 2013, 86, 20130002.	2.2	17
68	A hyperspectral imaging system for an accurate prediction of the above-ground biomass of individual rice plants. Review of Scientific Instruments, 2013, 84, 095107.	1.3	18
69	Rapid Reconstruction of 3D Neuronal Morphology from Light Microscopy Images with Augmented Rayburst Sampling. PLoS ONE, 2013, 8, e84557.	2.5	51
70	Development of Chinese adult male mathematical phantom and external radiation dose calculations. Qiangjiguang Yu Lizishu/High Power Laser and Particle Beams, 2013, 25, 182-188.	0.0	2
71	Preparation of Nylon-6/flake graphite derivatives composites with antistatic property and thermal stability. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1038-1043.	7.6	17
72	Evaluation of S-values and dose distributions for ^{90}Y, ^{131}I, ^{166}Ho, and ^{188}Re in seven lobes of the rat liver. Medical Physics, 2012, 39, 1462-1472.	3.0	10

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73	Influence of dentures on SAR in the visible Chinese human head voxel phantom exposed to a mobile phone at 900 and 1800 MHz. Bioelectromagnetics, 2012, 33, 508-517.	1.6	5
74	A novel approach to remote access picture archiving and communication system on mobile devices over wireless networks. , 2012, , .		2
75	Myocardial contractile and metabolic properties of familial hypertrophic cardiomyopathy caused by cardiac troponin I gene mutations: a simulation study. Experimental Physiology, 2012, 97, 155-169.	2.0	5
76	Acceleration of CT reconstruction for wheat tiller inspection based on adaptive minimum enclosing rectangle. Computers and Electronics in Agriculture, 2012, 85, 123-133.	7.7	18
77	High-throughput measurement of rice tillers using a conveyor equipped with x-ray computed tomography. Review of Scientific Instruments, 2011, 82, 025102.	1.3	50
78	Fast discrimination and counting of filled/unfilled rice spikelets based on bi-modal imaging. Computers and Electronics in Agriculture, 2011, 75, 196-203.	7.7	38
79	Morphological and Molecular Differences in Two Strains of Ustilago esculenta. Current Microbiology, 2011, 62, 44-54.	2.2	34
80	A novel machine-vision-based facility for the automatic evaluation of yield-related traits in rice. Plant Methods, 2011, 7, 44.	4.3	95
81	Adaptive region of interest method for analytical micro-CT reconstruction. Journal of X-Ray Science and Technology, 2011, 19, 23-33.	1.0	8
82	Micro-Optical Sectioning Tomography to Obtain a High-Resolution Atlas of the Mouse Brain. Science, 2010, 330, 1404-1408.	12.6	463
83	Advanced features of whole body sectioned images: Virtual Chinese Human. Clinical Anatomy, 2010, 23, 523-529.	2.7	29
84	Weighted least squares support vector machine local region method for nonlinear time series prediction. Applied Soft Computing Journal, 2010, 10, 562-566.	7.2	59
85	Comparison of absorbed fractions of electrons and photons using three kinds of computational phantoms of rat. Applied Physics Letters, 2010, 97, .	3.3	13
86	Skeletal dosimetry in a voxel-based rat phantom for internal exposures to photons and electrons. Medical Physics, 2010, 37, 2167-2178.	3.0	24
87	Development of a Rat Computational Phantom Using Boundary Representation Method for Monte Carlo Simulation in Radiological Imaging. Proceedings of the IEEE, 2009, 97, 2006-2014.	21.3	12
88	China Physiome Project: A Comprehensive Framework for Anatomical and Physiological Databases From the China Digital Human and the Visible Rat. Proceedings of the IEEE, 2009, 97, 1969-1976.	21.3	5
89	Genetic Relationships Among Panicle Characteristics of Rice (Oryza sativa L.) Using Unconditional and Conditional QTL Analyses. Journal of Plant Biology, 2009, 52, 259-267.	2.1	11
90	A method of improving position precision based on fuzzy control. , 2009, , .		1

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91	Computational study on cortical spreading depression based on a generalized cellular automaton model. Proceedings of SPIE, 2009, , .	0.8	1
92	An integrative analysis platform for multiple neural spike train data. Journal of Neuroscience Methods, 2008, 172, 303-311.	2.5	11
93	A Semantic Web model of GO and its annotations. Science Bulletin, 2008, 53, 568-575.	1.7	1
94	Construction and visualization of high-resolution three-dimensional anatomical structure datasets for Chinese digital human. Science Bulletin, 2008, 53, 1848-1854.	9.0	22
95	Human physiome based on the high-resolution dataset of human body structure. Progress in Natural Science: Materials International, 2008, 18, 921-925.	4.4	1
96	Effective method for automatic contour extraction in computerized tomography reconstruction. Journal of Electronic Imaging, 2008, 17, 013016.	0.9	1
97	An image-based rat model for Monte Carlo organ dose calculations. Medical Physics, 2008, 35, 3759-3764.	3.0	30
98	Organ dose calculations by Monte Carlo modeling of the updated VCH adult male phantom against idealized external proton exposure. Physics in Medicine and Biology, 2008, 53, 3697-3722.	3.0	30
99	Conversion coefficients for external monoenergetic photon beams in the visible Chinese human model. , 2008, , .		0
100	THE DEVELOPMENT AND APPLICATION OF THE VISIBLE CHINESE HUMAN MODEL FOR MONTE CARLO DOSE CALCULATIONS. Health Physics, 2008, 94, 118-125.	0.5	55
101	CROSS-SECTION IMAGING OF RICE TILLERS BY MCT SYSTEM. , 2008, , .		0
102	CT AND MRI IMAGE FUSION IN RADIOTHERAPY FOR TRANSCRANIAL TUMOR. , 2008, , .		0
103	<title>A high-resolution optical imaging system for obtaining the serial transverse section images of biologic tissue</title>. , 2007, , .		0
104	Monte Carlo simulations for external neutron dosimetry based on the visible Chinese human phantom. Physics in Medicine and Biology, 2007, 52, 7367-7383.	3.0	30
105	Preparation of sulfur-free exfoliated graphite at a low exfoliation temperature. Materials Letters, 2007, 61, 1832-1834.	2.6	31
106	Design and evaluation of a portable continuous-wave NIR topography instrument. , 2006, 6047, 212.		4
107	TRAIL-induced apoptosis proceeding from caspase-3-dependent and -independent pathways in distinct HeLa cells. Biochemical and Biophysical Research Communications, 2006, 346, 1136-1141.	2.1	30
108	<title>Laser speckle techniques for studying thermally induced dynamics of blood perfusion of mice's mesentery</title>. , 2006, 6163, 13.		0

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109	A digital rat atlas of sectional anatomy. , 2006, 6047, 219.		0
110	A high-resolution anatomical rat atlas. Journal of Anatomy, 2006, 209, 707-708.	1.5	19
111	Monitoring thermally induced blood flow change of rat mesentery by laser speckle imaging. , 2006, , .		0
112	Micro-CT images reconstruction and 3D visualization for small animal studying. , 2005, , .		0
113	Laser speckle contrast imaging: monitoring blood flow dynamics and vascular structure of photodynamic therapy. , 2005, , .		2
114	Temporal clustering analysis of cerebral blood flow activation maps measured by laser speckle contrast imaging. Journal of Biomedical Optics, 2005, 10, 024019.	2.6	13
115	Parallel Visualization of Visible Chinese Human with Extremely Large Datasets. , 2005, 2005, 5172-5.		6
116	The Development of Small Laboratory Animal Atlas. , 2005, 2005, 1472-5.		0
117	Metabolic imaging of tumors using intrinsic and extrinsic fluorescent markers. Biosensors and Bioelectronics, 2004, 20, 643-650.	10.1	52
118	Laser speckle imaging of blood flow in microcirculation. Physics in Medicine and Biology, 2004, 49, 1347-1357.	3.0	88
119	Metabolism-enhanced tumor localization by fluorescence imaging: in vivo animal studies. Optics Letters, 2003, 28, 2070.	3.3	60
120	Low-frequency phased-array 2D fluorescence localization in breast cancer detection. , 2003, 5254, 195.		0
121	Determination of subsurface tumor localization in animal models with near-infrared (NIR) fluorescence imaging. , 2003, 4955, 322.		0
122	2D phased array fluorescence wireless localizer in breast cancer detection. , 0, , .		2