

Yan Kang

List of Publications by Year in descending order

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77
papers

585
citations

687363

13
h-index

752698

20
g-index

78
all docs

78
docs citations

78
times ranked

899
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategically Acquired Gradient Echo (STAGE) imaging, part I: Creating enhanced T1 contrast and standardized susceptibility weighted imaging and quantitative susceptibility mapping. <i>Magnetic Resonance Imaging</i> , 2018, 46, 130-139.	1.8	76
2	Synthesis, Characterization, and in Vitro Antitumor Activity of Ruthenium(II) Polypyridyl Complexes Tethering EGFR-Inhibiting 4-Anilinoquinazolines. <i>Inorganic Chemistry</i> , 2016, 55, 4595-4605.	4.0	44
3	Convolutional neural network enhancement of fast-scan low-dose cone-beam CT images for head and neck radiotherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 035003.	3.0	42
4	Breast tumor detection in double views mammography based on extreme learning machine. <i>Neural Computing and Applications</i> , 2016, 27, 227-240.	5.6	25
5	Transient Dynamics Simulation of Airflow in a CT-Scanned Human Airway Tree: More or Fewer Terminal Bronchi?. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-14.	1.3	25
6	Unsupervised Cerebrovascular Segmentation of TOF-MRA Images Based on Deep Neural Network and Hidden Markov Random Field Model. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 77.	2.5	24
7	An interleaved sequence for simultaneous magnetic resonance angiography (MRA), susceptibility weighted imaging (SWI) and quantitative susceptibility mapping (QSM). <i>Magnetic Resonance Imaging</i> , 2018, 47, 1-6.	1.8	23
8	Brain-inspired algorithms for retinal image analysis. <i>Machine Vision and Applications</i> , 2016, 27, 1117-1135.	2.7	22
9	A Comprehensive Evaluation of Disease Phenotype Networks for Gene Prioritization. <i>PLoS ONE</i> , 2016, 11, e0159457.	2.5	20
10	An Automatic Estimation of Arterial Input Function Based on Multi-Stream 3D CNN. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 49.	2.5	18
11	Performance Evaluation of Deep Learning Classification Network for Image Features. <i>IEEE Access</i> , 2021, 9, 9318-9333.	4.2	16
12	Automated White Matter Hyperintensity Detection in Multiple Sclerosis Using 3D T2 FLAIR. <i>International Journal of Biomedical Imaging</i> , 2014, 2014, 1-7.	3.9	15
13	Image Patch-Based Net Water Uptake and Radiomics Models Predict Malignant Cerebral Edema After Ischemic Stroke. <i>Frontiers in Neurology</i> , 2020, 11, 609747.	2.4	15
14	Mass computer-aided diagnosis method in mammogram based on texture features. , 2010, , .		14
15	A review of surgery navigation system based on ultrasound guidance. , 2012, , .		14
16	A highly sensitive compact liquid sensor based on slotted phononic crystal plates. <i>Lab on A Chip</i> , 2016, 16, 4595-4600.	6.0	14
17	Analysis of Streamflow Complexity Based on Entropies in the Weihe River Basin, China. <i>Entropy</i> , 2020, 22, 38.	2.2	12
18	Early COPD Risk Decision for Adults Aged From 40 to 79 Years Based on Lung Radiomics Features. <i>Frontiers in Medicine</i> , 2022, 9, 845286.	2.6	11

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19	Automated segmentation of trabecular and cortical bone from proton density weighted MRI of the knee. Medical and Biological Engineering and Computing, 2019, 57, 1015-1027.	2.8	10
20	A novel lung radiomics feature for characterizing resting heart rate and COPD stage evolution based on radiomics feature combination strategy. Mathematical Biosciences and Engineering, 2022, 19, 4145-4165.	1.9	10
21	Fast and Automatic Segmentation of Ascending Aorta in MSCT Volume Data. , 2009, , .		9
22	Calcium deprivation enhances non-selective fluid-phase endocytosis and modifies membrane lipid profiles in Arabidopsis roots. Journal of Plant Physiology, 2018, 226, 22-30.	3.5	9
23	A robust and semi-automatic quantitative measurement of patellofemoral instability based on four dimensional computed tomography. Medical Engineering and Physics, 2020, 78, 29-38.	1.7	9
24	A mongolian pine specific endoplasmic reticulum localized CALMODULIN-LIKE calcium binding protein enhances arabidopsis growth. Journal of Plant Physiology, 2018, 226, 1-11.	3.5	8
25	A novel zinc transporter essential for Arabidopsis zinc and iron-dependent growth. Journal of Plant Physiology, 2021, 256, 153296.	3.5	7
26	Lung parenchyma parameters measure of rats from pulmonary window computed tomography images based on ResU-Net model for medical respiratory researches. Mathematical Biosciences and Engineering, 2021, 18, 4193-4211.	1.9	7
27	3D bone subtraction CT angiography for the evaluation of intracranial aneurysms: a comparison study with 2D bone subtraction CT angiography and conventional non-subtracted CT angiography. Acta Radiologica, 2015, 56, 1127-1134.	1.1	6
28	ADMM-EM Method for L_1 -Norm Regularized Weighted Least Squares PET Reconstruction. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-14.	1.3	6
29	An improved random forests approach for interactive lobar segmentation on emphysema detection. Granular Computing, 2020, 5, 503-512.	8.0	6
30	Lung radiomics features for characterizing and classifying COPD stage based on feature combination strategy and multi-layer perceptron classifier. Mathematical Biosciences and Engineering, 2022, 19, 7826-7855.	1.9	6
31	Fiducial markers configuration optimization in image-guided surgery. Bio-Medical Materials and Engineering, 2014, 24, 3361-3371.	0.6	5
32	Development Status and Multilevel Classification Strategy of Medical Robots. Electronics (Switzerland), 2021, 10, 1278.	3.1	5
33	Application Research of Homogeneous Texture Descriptor in Content-Based Image Retrieval. , 2009, , .		4
34	Denosing low dose CT images via 3D total variation using CUDA. , 2013, , .		4
35	Automatic segmentation of juxta-pleural tumors from CT images based on morphological feature analysis. Bio-Medical Materials and Engineering, 2014, 24, 3137-3144.	0.6	4
36	Automatic 3D segmentation of human airway tree in CT image. , 2010, , .		3

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37	Semi-automatic segmentation of renal cortex and medulla based on dynamic magnetic resonance images. , 2010, , .		3
38	Automatic heart positioning method in computed tomography scout images. Bio-Medical Materials and Engineering, 2014, 24, 3277-3286.	0.6	3
39	Fast axial and lateral displacement estimation in myocardial elastography based on RF signals with predictions. Bio-Medical Materials and Engineering, 2015, 26, S1633-S1639.	0.6	3
40	MLE-Based Parameter Estimation for Four-Parameter Exponential Gamma Distribution and Asymptotic Variance of Its Quantiles. Water (Switzerland), 2021, 13, 2092.	2.7	3
41	Automatic Rib Positioning Method in CT Images. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	2
42	A new x-ray scatter correction method based on BAG for cone beam CT. , 2012, , .		2
43	Drug incompatibility checking system on mobile platform. , 2012, , .		2
44	A Watershed-Based Intelligent Scissors Approach for Interactive Semi-Automated Pulmonary Lobes Segmentation. , 2020, , .		2
45	Review on Development Status and Key Technologies of Surgical Robots. , 2020, , .		2
46	RDHCformer: Fusing ResDCN and Transformers for Fetal Head Circumference Automatic Measurement in 2D Ultrasound Images. Frontiers in Medicine, 2022, 9, 848904.	2.6	2
47	A prototype of cone-beam breast computed tomography system and its performance evaluation. , 2010, , .		1
48	A new two-dimensional transfer functions for volume rendering. , 2010, , .		1
49	An Automatic Registration Approach for Whole Body PET Images and Head MR Images. , 2011, , .		1
50	New efforts to quantitative T2-mapping imaging. , 2011, , .		1
51	Research on automatic recognition of breast tumors based on Principal Component Analysis. , 2012, , .		1
52	Breast mass segmentation in mammography using improved dynamic programming. , 2012, , .		1
53	Accelerating ring artifacts reduction for cone beam CT based on projection data using CUDA. , 2013, , .		1
54	Low-Dose computed tomography sinogram DE-noising based on joint wavelet and total variation. , 2016, , .		1

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55	Semi-supervised Nonnegative Matrix Factorization with Commonness Extraction. <i>Neural Processing Letters</i> , 2017, 45, 1063-1076.	3.2	1
56	Quantitative Reconstruction of Dual K-Edge Contrast Agent Distribution for Photon- Counting Computed Tomography. <i>IEEE Access</i> , 2019, 7, 124441-124451.	4.2	1
57	Graph Regularized Sparse Autoencoders with Nonnegativity Constraints. <i>Neural Processing Letters</i> , 2019, 50, 247-262.	3.2	1
58	Research on entity relationship extraction for diabetes medical literature. , 2020, , .		1
59	Research on Service-Oriented Platform for Hospital Collaborative Management. , 2009, , .		0
60	A hybrid optimization method for maximum mutual information registration. , 2010, , .		0
61	Quantification of posterior fossa structures in fetal brain MR images. , 2010, , .		0
62	A medical image navigating system with iPad. , 2012, , .		0
63	The analysis and development of computed 2D optical flow velocity based on phantom data. , 2012, , .		0
64	Identification of incorrect segmentation and centerline correction of coronary arteries in CT angiographic images. , 2012, , .		0
65	An integrated detection method of clustered microcalcifications in mammography based on multiscale Hessian Matrix. , 2012, , .		0
66	Infiltrative breast cancer initial detection based on double-scale sech template matching. , 2012, , .		0
67	CT-guided lung biopsy: Assessment of fiducials registration accuracy. , 2013, , .		0
68	Fast and robust polyp detection in CT colonography. , 2013, , .		0
69	Acoustic radiation force on cylindrical particles near subwavelength slits. , 2013, , .		0
70	Iterative reconstruction with segmentation penalty for PET. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S1009-S1018.	0.6	0
71	Robust boundary detection of left ventricles on ultrasound images using ASM-level set method. <i>Bio-Medical Materials and Engineering</i> , 2015, 26, S1291-S1296.	0.6	0
72	Iterative Non-negative Deconvolution Algorithms with Alpha-Divergence. , 2015, , .		0

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73	Spatial selective trapping of microparticles using a quasi-periodic phononic crystal plate. , 2015, , .		0
74	Research on ECG automatic analysis system based on virtual instrument. , 2015, , .		0
75	Acoustic manipulation of microparticles in a sub-wavelength slot between two plates. , 2016, , .		0
76	Pancreatic malformations as seen in congenital syndromes “ Developmental perspective with an alternative view. , 2016, , .		0
77	The Overview of Mobile CT. , 2016, , .		0