

# Zhenghan Yang

## List of Publications by Year in descending order

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63  
papers

749  
citations

687220

13  
h-index

677027

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g-index

64  
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64  
docs citations

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times ranked

824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of texture analysis based on apparent diffusion coefficient maps in discriminating different stages of rectal cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1798-1808.	1.9	97
2	Rapid vessel segmentation and reconstruction of head and neck angiograms using 3D convolutional neural network. <i>Nature Communications</i> , 2020, 11, 4829.	5.8	57
3	Deep learning analysis in coronary computed tomographic angiography imaging for the assessment of patients with coronary artery stenosis. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105651.	2.6	42
4	Use of BERT (Bidirectional Encoder Representations from Transformers)-Based Deep Learning Method for Extracting Evidences in Chinese Radiology Reports: Development of a Computer-Aided Liver Cancer Diagnosis Framework. <i>Journal of Medical Internet Research</i> , 2021, 23, e19689.	2.1	33
5	Correlation of MRI-detected extramural vascular invasion with regional lymph node metastasis in rectal cancer. <i>Clinical Imaging</i> , 2016, 40, 456-460.	0.8	31
6	Lateralization effects on functional connectivity of the auditory network in patients with unilateral pulsatile tinnitus as detected by functional MRI. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 81, 228-235.	2.5	22
7	Reorganization of Brain White Matter in Persistent Idiopathic Tinnitus Patients Without Hearing Loss: Evidence From Baseline Data. <i>Frontiers in Neuroscience</i> , 2020, 14, 591.	1.4	22
8	Correlation Between Trans-Stenotic Blood Flow Velocity Differences and the Cerebral Venous Pressure Gradient in Transverse Sinus Stenosis: A Prospective 4-Dimensional Flow Magnetic Resonance Imaging Study. <i>Neurosurgery</i> , 2021, 89, 549-556.	0.6	22
9	Altered functional connectivity of the thalamus in tinnitus patients is correlated with symptom alleviation after sound therapy. <i>Brain Imaging and Behavior</i> , 2020, 14, 2668-2678.	1.1	20
10	Disturbed neurovascular coupling in hemodialysis patients. <i>PeerJ</i> , 2020, 8, e8989.	0.9	20
11	CT venography correlate of transverse sinus stenosis and venous transstenotic pressure gradient in unilateral pulsatile tinnitus patients with sigmoid sinus wall anomalies. <i>European Radiology</i> , 2021, 31, 2896-2902.	2.3	19
12	Morphological Neuroimaging Biomarkers for Tinnitus: Evidence Obtained by Applying Machine Learning. <i>Neural Plasticity</i> , 2019, 2019, 1-11.	1.0	16
13	Structural and Functional Alterations in Hemodialysis Patients: A Voxel-Based Morphometry and Functional Connectivity Study. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 80.	1.0	16
14	Outcomes at 6â€‰months are related to brain structural and white matter microstructural reorganization in idiopathic tinnitus patients treated with sound therapy. <i>Human Brain Mapping</i> , 2021, 42, 753-765.	1.9	16
15	Effects of different morphologic abnormalities on hemodynamics in patients with venous pulsatile tinnitus: A four-dimensional flow magnetic resonance imaging study. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1744-1751.	1.9	16
16	Effect of gadolinium contrast-enhanced T1-weighted magnetic resonance imaging for detecting extramural venous invasion in rectal cancer. <i>Abdominal Radiology</i> , 2016, 41, 1736-1743.	1.0	15
17	A Natural Language Processing Pipeline of Chinese Free-Text Radiology Reports for Liver Cancer Diagnosis. <i>IEEE Access</i> , 2020, 8, 159110-159119.	2.6	15
18	Diagnostic accuracy of quantitative diffusion parameters in the pathological grading of hepatocellular carcinoma: A meta-analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1581-1593.	1.9	13

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19	Influence of Parathyroidectomy on Bone Calcium Concentration: Evaluation with Spectral CT in Patients with Secondary Hyperparathyroidism Undergoing Hemodialysis—A Prospective Feasibility Study. <i>Radiology</i> , 2017, 284, 143-152.	3.6	12
20	Altered resting-state functional networks in patients with hemodialysis: a graph-theoretical based study. <i>Brain Imaging and Behavior</i> , 2021, 15, 833-845.	1.1	12
21	Automated segmentation of liver segment on portal venous phase MR images using a 3D convolutional neural network. <i>Insights Into Imaging</i> , 2022, 13, 26.	1.6	12
22	The role of apparent diffusion coefficient values in characterization of solid focal liver lesions: a prospective and comparative clinical study. <i>Science China Life Sciences</i> , 2017, 60, 16-22.	2.3	11
23	Stapes visualization by ultra-high resolution CT in cadaveric heads: A preliminary study. <i>European Journal of Radiology</i> , 2021, 141, 109786.	1.2	11
24	Systematic review: The diagnostic efficacy of gadoteric acid-enhanced MRI for liver fibrosis staging. <i>European Journal of Radiology</i> , 2020, 125, 108857.	1.2	10
25	Radiology residency training in China: results from the first retrospective nationwide survey. <i>Insights Into Imaging</i> , 2021, 12, 25.	1.6	10
26	Brain Structural and Functional Reorganization in Tinnitus Patients Without Hearing Loss After Sound Therapy: A Preliminary Longitudinal Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 573858.	1.4	10
27	Diagnostic Accuracy and Generalizability of a Deep Learning-Based Fully Automated Algorithm for Coronary Artery Stenosis Detection on CCTA: A Multi-Centre Registry Study. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 707508.	1.1	10
28	MR Diffusional Kurtosis Imaging—Based Assessment of Brain Microstructural Changes in Patients with Moyamoya Disease before and after Revascularization. <i>American Journal of Neuroradiology</i> , 2020, 41, 246-254.	1.2	9
29	Pretreatment intranetwork connectivity can predict the outcomes in idiopathic tinnitus patients treated with sound therapy. <i>Human Brain Mapping</i> , 2021, 42, 4762-4776.	1.9	9
30	Distinct brain structural—functional network topological coupling explains different outcomes in tinnitus patients treated with sound therapy. <i>Human Brain Mapping</i> , 2022, 43, 3245-3256.	1.9	9
31	Imaging re-evaluation of the tympanic segment of the facial nerve canal using cone-beam computed tomography compared with multi-slice computed tomography. <i>European Archives of Oto-Rhino-Laryngology</i> , 2019, 276, 1933-1941.	0.8	8
32	The Clinical Value and Appropriateness Criteria of Upper Abdominal Magnetic Resonance Examinations in Patients Before and After Bariatric Surgery: a Study of 837 Images. <i>Obesity Surgery</i> , 2020, 30, 3784-3791.	1.1	8
33	Optimal Adaptive Statistical Iterative Reconstruction Percentage in Dual-energy Monochromatic CT Portal Venography. <i>Academic Radiology</i> , 2016, 23, 337-343.	1.3	7
34	Neuroanatomical Alterations in Patients With Tinnitus Before and After Sound Therapy: A Voxel-Based Morphometry Study. <i>Frontiers in Neuroscience</i> , 2020, 14, 911.	1.4	7
35	Lateralization Effects on Cerebral Blood Flow in Patients With Unilateral Pulsatile Tinnitus Measured With Arterial Spin Labeling. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 591260.	1.0	7
36	Alterations in the Liver Fat Fraction Features Examined by Magnetic Resonance Imaging Following Bariatric Surgery: a Self-Controlled Observational Study. <i>Obesity Surgery</i> , 2020, 30, 1917-1928.	1.1	7

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37	Cortical Thickness Alterations in Patients With Tinnitus Before and After Sound Therapy: A Surface-Based Morphometry Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 633364.	1.4	7
38	Altered cerebral blood flow in patients with unilateral venous pulsatile tinnitus: an arterial spin labeling study. <i>British Journal of Radiology</i> , 2021, 94, 20200990.	1.0	6
39	Sound therapy can modulate the functional connectivity of the auditory network. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 110, 110323.	2.5	6
40	Neuroanatomical Alterations in Patients With Tinnitus Before and After Sound Therapy: A Combined VBM and SCN Study. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 607452.	1.0	6
41	Artificial intelligence stenosis diagnosis in coronary CTA: effect on the performance and consistency of readers with less cardiovascular experience. <i>BMC Medical Imaging</i> , 2022, 22, 28.	1.4	6
42	Subtraction improves the accuracy of coronary CT angiography for detecting obstructive disease in severely calcified segments. <i>European Radiology</i> , 2021, 31, 6211-6219.	2.3	5
43	Brain Surface Area Alterations Correlate With Gait Impairments in Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 806026.	1.7	5
44	The role of ancillary features for diagnosing hepatocellular carcinoma on CT: based on the Liver Imaging Reporting and Data System version 2017 algorithm. <i>Clinical Radiology</i> , 2020, 75, 478.e25-478.e35.	0.5	4
45	How much abdominal fat do obese patients lose short term after laparoscopic sleeve gastrectomy? A quantitative study evaluated with MRI. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4569-4582.	1.1	4
46	Effect of breath holding at the end of the inspiration and expiration phases on liver stiffness measured by 2D-MR elastography. <i>Abdominal Radiology</i> , 2021, 46, 2516-2526.	1.0	4
47	Bariatric surgery for non-alcoholic fatty liver disease in individuals with obesity (Base-NAFLD): protocol of a prospective multicenter observational follow-up study. <i>BMC Surgery</i> , 2021, 21, 298.	0.6	3
48	The Relationships Among Transverse Sinus Stenosis Measured by CT Venography, Venous Trans-stenotic Pressure Gradient and Intracranial Pressure in Patients With Unilateral Venous Pulsatile Tinnitus. <i>Frontiers in Neuroscience</i> , 2021, 15, 694731.	1.4	3
49	Surface-Based Amplitude of Low-Frequency Fluctuation Alterations in Patients With Tinnitus Before and After Sound Therapy: A Resting-State Functional Magnetic Resonance Imaging Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 709482.	1.4	3
50	Effects of Different Degrees of Extraluminal Compression on Hemodynamics in a Prominent Transverse-Sigmoid Sinus Junction. <i>Frontiers in Human Neuroscience</i> , 2022, 16, 823455.	1.0	3
51	Study of Correlation between MRI Morphology of Primary Tumor and Extramural Vascular Invasion in Rectal Cancer. <i>Concepts in Magnetic Resonance Part B</i> , 2022, 2022, 1-10.	0.3	3
52	Clinical practice guideline for body composition assessment based on upper abdominal magnetic resonance images annotated using artificial intelligence. <i>Chinese Medical Journal</i> , 2022, 135, 631-633.	0.9	3
53	The Appropriateness Criteria of Abdominal Fat Measurement at the Level of the L1-L2 Intervertebral Disc in Patients With Obesity. <i>Frontiers in Endocrinology</i> , 2021, 12, 784056.	1.5	3
54	Noninvasive Assessment of APAP (N-acetylcysteine) Induced Hepatotoxicity Using Multiple MRI Parameters in an Experimental Rat Model. <i>Journal of Magnetic Resonance Imaging</i> , 2022, , .	1.9	3

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55	Multi-modality self-attention aware deep network for 3D biomedical segmentation. BMC Medical Informatics and Decision Making, 2020, 20, 119.	1.5	2
56	Lateralization effects in brain white matter reorganization in patients with unilateral idiopathic tinnitus: a preliminary study. Brain Imaging and Behavior, 2021, , 1.	1.1	2
57	Altered Neurovascular Coupling in Unilateral Pulsatile Tinnitus. Frontiers in Neuroscience, 2021, 15, 791436.	1.4	2
58	Transverse Sinus Stenosis in Venous Pulsatile Tinnitus Patients May Lead to Brain Perfusion and White Matter Changes. Frontiers in Neuroscience, 2021, 15, 732113.	1.4	2
59	Effect of Emissary Vein on Hemodynamics of the Transverse- Sigmoid Sinus Junction. Frontiers in Human Neuroscience, 2021, 15, 707014.	1.0	1
60	Dual-phase contrast-enhanced CT evaluation of dural arteriovenous fistula in patients with pulsatile tinnitus as an initial symptom. European Journal of Radiology, 2022, 148, 110137.	1.2	1
61	Comparison of reader agreement, correlation with liver biopsy, and time-burden sampling strategies for liver proton density fat fraction measured using magnetic resonance imaging in patients with obesity: a secondary cross-sectional study. BMC Medical Imaging, 2022, 22, 92.	1.4	1
62	Impact of Several Factors on the Diagnostic Interpretability of Coronary Computed Tomographic Angiography Using a 256-Detector Row CT Scanner. Current Medical Imaging, 2021, 17, .	0.4	0
63	Diagnostic Accuracy of Subtraction Coronary CT Angiography in Severely Calcified Segments: Comparison Between Readers With Different Levels of Experience. Frontiers in Cardiovascular Medicine, 2022, 9, 828751.	1.1	0