

# Yasheng Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

797  
citations

567281

15  
h-index

526287

27  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional oxygen extraction predicts border zone vulnerability to stroke in sickle cell disease. <i>Neurology</i> , 2018, 90, e1134-e1142.	1.1	81
2	Attenuation Correction of PET/MR Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2017, 25, 245-255.	1.1	75
3	Red cell exchange transfusions lower cerebral blood flow and oxygen extraction fraction in pediatric sickle cell anemia. <i>Blood</i> , 2018, 131, 1012-1021.	1.4	68
4	Evaluation of MR-Derived Cerebral Oxygen Metabolic Index in Experimental Hyperoxic Hypercapnia, Hypoxia, and Ischemia. <i>Stroke</i> , 2009, 40, 2165-2172.	2.0	59
5	Defining the Ischemic Penumbra Using Magnetic Resonance Oxygen Metabolic Index. <i>Stroke</i> , 2015, 46, 982-988.	2.0	49
6	Automated quantification of cerebral edema following hemispheric infarction: Application of a machine-learning algorithm to evaluate CSF shifts on serial head CTs. <i>NeuroImage: Clinical</i> , 2016, 12, 673-680.	2.7	49
7	Hydroxyurea reduces cerebral metabolic stress in patients with sickle cell anemia. <i>Blood</i> , 2019, 133, 2436-2444.	1.4	43
8	Large-Vessel Vasculopathy in Children With Sickle Cell Disease: A Magnetic Resonance Imaging Study of Infarct Topography and Focal Atrophy. <i>Pediatric Neurology</i> , 2017, 69, 49-57.	2.1	37
9	Application of Machine Learning to Automated Analysis of Cerebral Edema in Large Cohorts of Ischemic Stroke Patients. <i>Frontiers in Neurology</i> , 2018, 9, 687.	2.4	34
10	Reduction in Cerebrospinal Fluid Volume as an Early Quantitative Biomarker of Cerebral Edema After Ischemic Stroke. <i>Stroke</i> , 2020, 51, 462-467.	2.0	33
11	Probabilistic Air Segmentation and Sparse Regression Estimated Pseudo CT for PET/MR Attenuation Correction. <i>Radiology</i> , 2015, 275, 562-569.	7.3	27
12	Quantitative MRI of Diffuse Liver Disease: Current Applications and Future Directions. <i>Radiology</i> , 2019, 290, 23-30.	7.3	26
13	Imaging Oxygen Metabolism in Acute Stroke Using MRI. <i>Current Radiology Reports</i> , 2014, 2, 39.	1.4	22
14	Oxygen Metabolic Stress and White Matter Injury in Patients With Cerebral Small Vessel Disease. <i>Stroke</i> , 2022, 53, 1570-1579.	2.0	19
15	Noninvasive Measurements of Cerebral Blood Flow, Oxygen Extraction Fraction, and Oxygen Metabolic Index in Human with Inhalation of Air and Carbogen using Magnetic Resonance Imaging. <i>Translational Stroke Research</i> , 2012, 3, 246-254.	4.2	18
16	Longitudinal regression analysis of spatial-temporal growth patterns of geometrical diffusion measures in early postnatal brain development with diffusion tensor imaging. <i>NeuroImage</i> , 2011, 58, 993-1005.	4.2	17
17	Bulk volume susceptibility difference between deoxyhemoglobin and oxyhemoglobin for HbA and HbS: A comparative study. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3383-3393.	3.0	17
18	High-Pressure Transvenous Perfusion of the Upper Extremity in Human Muscular Dystrophy: A Safety Study with 0.9% Saline. <i>Human Gene Therapy</i> , 2015, 26, 614-621.	2.7	16

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19	Hemispheric CSF volume ratio quantifies progression and severity of cerebral edema after acute hemispheric stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2907-2915.	4.3	14
20	Cerebral Oxygen Metabolic Stress, Microstructural Injury, and Infarction in Adults With Sickle Cell Disease. <i>Neurology</i> , 2021, 97, e902-e912.	1.1	14
21	Lesion evolution and neurodegeneration in RVCL-S. <i>Neurology</i> , 2020, 95, e1918-e1931.	1.1	13
22	Reperfusion Beyond 6 Hours Reduces Infarct Probability in Moderately Ischemic Brain Tissue. <i>Stroke</i> , 2016, 47, 99-105.	2.0	11
23	Functional Connectivity Decreases with Metabolic Stress in Sickle Cell Disease. <i>Annals of Neurology</i> , 2020, 88, 995-1008.	5.3	11
24	Cerebral Oxygen Metabolic Stress is Increased in Children with Sickle Cell Anemia Compared to Anemic Controls. <i>American Journal of Hematology</i> , 2022, , .	4.1	10
25	The Stroke Neuro-Imaging Phenotype Repository: An Open Data Science Platform for Stroke Research. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 597708.	2.5	9
26	MRI based attenuation correction for PET/MRI via MRF segmentation and sparse regression estimated CT. , 2014, , .		5
27	More insights into early brain development through statistical analyses of eigen-structural elements of diffusion tensor imaging using multivariate adaptive regression splines. <i>Brain Structure and Function</i> , 2014, 219, 551-569.	2.3	5
28	Silent Infarcts, White Matter Integrity, and Oxygen Metabolic Stress in Young Adults With and Without Sickle Cell Trait. <i>Stroke</i> , 2022, 53, 2887-2895.	2.0	5
29	Mapping Growth Patterns and Genetic Influences on Early Brain Development in Twins. <i>Lecture Notes in Computer Science</i> , 2009, 12, 232-239.	1.3	4
30	A Generative Model for Resolution Enhancement of Diffusion MRI Data. <i>Lecture Notes in Computer Science</i> , 2013, 16, 527-534.	1.3	4
31	Simulation of Brain Mass Effect with an Arbitrary Lagrangian and Eulerian FEM. <i>Lecture Notes in Computer Science</i> , 2010, 13, 274-281.	1.3	1
32	Tailor the longitudinal analysis for nih longitudinal normal brain developmental study. , 2014, 2014, 1206-1209.		1
33	Temporal evolution of cerebral metabolic rate of oxygen utilization using MRI in a middle cerebral artery occlusion stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S400-S400.	4.3	0
34	Abstract T P45: Automated CSF Segmentation to Quantify Cerebral Edema Following Large Hemispheric Ischemic Stroke. <i>Stroke</i> , 2015, 46, .	2.0	0
35	Abstract WMP20: Validation of an Efficient Machine-learning Approach to Quantify CSF Volume Changes Using Multicenter CT Scans. <i>Stroke</i> , 2016, 47, .	2.0	0
36	Increased Cerebral Metabolic Stress Is Associated with Diminished Functional Connectivity in Pediatric Sickle Cell Anemia. <i>Blood</i> , 2019, 134, 989-989.	1.4	0