

Yonggang Shi

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,686
citations

249298

26
h-index

242451

47
g-index

83
all docs

83
docs citations

83
times ranked

4284
citing authors

#	ARTICLE	IF	CITATIONS
1	Hippocampal asymmetry of regional development and structural covariance in preterm neonates. <i>Cerebral Cortex</i> , 2022, 32, 4271-4283.	1.6	4
2	Unsupervised Deep Learning for FOD-Based Susceptibility Distortion Correction in Diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 1165-1175.	5.4	8
3	Locus coeruleus integrity is related to tau burden and memory loss in autosomal-dominant Alzheimer's disease. <i>Neurobiology of Aging</i> , 2022, 112, 39-54.	1.5	49
4	Age differences in diffusivity in the locus coeruleus and its ascending noradrenergic tract. <i>NeuroImage</i> , 2022, 251, 119022.	2.1	7
5	The effect of body mass index on hippocampal morphology and memory performance in late childhood and adolescence. <i>Hippocampus</i> , 2021, 31, 189-200.	0.9	10
6	Parallel Transport Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 635-647.	5.4	23
7	Retrospective motion artifact correction of structural MRI images using deep learning improves the quality of cortical surface reconstructions. <i>NeuroImage</i> , 2021, 230, 117756.	2.1	39
8	Past, present and future role of retinal imaging in neurodegenerative disease. <i>Progress in Retinal and Eye Research</i> , 2021, 83, 100938.	7.3	60
9	Using Fractional Anisotropy Imaging to Detect Mild Cognitive Impairment and Alzheimer's Disease among Mexican Americans and Non-Hispanic Whites: A HABLE Study. <i>Dementia and Geriatric Cognitive Disorders</i> , 2021, 50, 266-273.	0.7	7
10	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	2.1	94
11	The Health & Aging Brain among Latino Elders (HABLE) study methods and participant characteristics. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12202.	1.2	36
12	Retinal Venular Tortuosity Jointly with Retinal Amyloid Burden Correlates with Verbal Memory Loss: A Pilot Study. <i>Cells</i> , 2021, 10, 2926.	1.8	14
13	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 234-249.	1.9	38
14	Automated Deformation-Based Analysis of 3D Optical Coherence Tomography in Diabetic Retinopathy. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 236-245.	5.4	14
15	3D Shape Modeling and Analysis of Retinal Microvasculature in OCT-Angiography Images. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1335-1346.	5.4	45
16	Morphometric development of the human fetal cerebellum during the early second trimester. <i>NeuroImage</i> , 2020, 207, 116372.	2.1	15
17	Groupwise track filtering via iterative message passing and pruning. <i>NeuroImage</i> , 2020, 221, 117147.	2.1	4
18	3D Retinal Vessel Density Mapping With OCT-Angiography. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3466-3479.	3.9	13

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19	Emotional detachment, gait ataxia, and cerebellar dysconnectivity associated with compound heterozygous mutations in the <i>SPG7</i> gene. <i>Neurocase</i> , 2020, 26, 299-304.	0.2	2
20	Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2725-2737.	5.4	29
21	A probabilistic atlas of locus coeruleus pathways to transentorhinal cortex for connectome imaging in Alzheimer's disease. <i>NeuroImage</i> , 2020, 223, 117301.	2.1	24
22	Unsupervised Deep Learning for Susceptibility Distortion Correction in Connectome Imaging. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 302-310.	1.0	2
23	Corrections to "Automated Tortuosity Analysis of Nerve Fibers in Corneal Confocal Microscopy". <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3758-3758.	5.4	1
24	FOD-based registration for susceptibility distortion correction in brainstem connectome imaging. <i>NeuroImage</i> , 2019, 202, 116164.	2.1	10
25	Relationship between retinal vessel tortuosity and oxygenation in sickle cell retinopathy. <i>International Journal of Retina and Vitreous</i> , 2019, 5, 47.	0.9	10
26	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019, 185, 1-11.	2.1	200
27	Hippocampal Shape Maturation in Childhood and Adolescence. <i>Cerebral Cortex</i> , 2019, 29, 3651-3665.	1.6	23
28	3D Surface-Based Geometric and Topological Quantification of Retinal Microvasculature in OCT-Angiography via Reeb Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 57-65.	1.0	3
29	Surface-based Tracking of U-fibers in the Superficial White Matter. , 2019, 11766, 538-546.		0
30	When tractography meets tracer injections: a systematic study of trends and variation sources of diffusion-based connectivity. <i>Brain Structure and Function</i> , 2018, 223, 2841-2858.	1.2	63
31	Brain structure differences between Chinese and Caucasian cohorts: A comprehensive morphometry study. <i>Human Brain Mapping</i> , 2018, 39, 2147-2155.	1.9	62
32	Riemannian metric optimization on surfaces (RMOS) for intrinsic brain mapping in the Laplace-Beltrami embedding space. <i>Medical Image Analysis</i> , 2018, 46, 189-201.	7.0	14
33	Topological false discovery rates for brain mapping based on signal height. <i>NeuroImage</i> , 2018, 167, 478-487.	2.1	2
34	A probabilistic atlas of human brainstem pathways based on connectome imaging data. <i>NeuroImage</i> , 2018, 169, 227-239.	2.1	71
35	Patch-Based Mapping of Transentorhinal Cortex with a Distributed Atlas. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 689-697.	1.0	2
36	Modeling topographic regularity in structural brain connectivity with application to tractogram filtering. <i>NeuroImage</i> , 2018, 183, 87-98.	2.1	15

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37	Tracking and validation techniques for topographically organized tractography. <i>NeuroImage</i> , 2018, 181, 64-84.	2.1	21
38	Multivariate Classification of Major Depressive Disorder Using the Effective Connectivity and Functional Connectivity. <i>Frontiers in Neuroscience</i> , 2018, 12, 38.	1.4	47
39	FOD-Based Registration for Susceptibility Distortion Correction in Connectome Imaging. <i>Lecture Notes in Computer Science</i> , 2018, 11083, 11-19.	1.0	2
40	GIFE: Efficient and Robust Group-Wise Isometric Fiber Embedding. <i>Lecture Notes in Computer Science</i> , 2018, 11083, 20-28.	1.0	0
41	Optical coherence tomography angiography: A comprehensive review of current methods and clinical applications. <i>Progress in Retinal and Eye Research</i> , 2017, 60, 66-100.	7.3	675
42	Topographic Regularity for Tract Filtering in Brain Connectivity. <i>Lecture Notes in Computer Science</i> , 2017, 10265, 263-274.	1.0	7
43	Holistic Mapping of Striatum Surfaces in the Laplace-Beltrami Embedding Space. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 21-30.	1.0	2
44	FOD Restoration for Enhanced Mapping of White Matter Lesion Connectivity. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 584-592.	1.0	2
45	Kernel-Regularized ICA for Computing Functional Topography from Resting-State fMRI. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 373-381.	1.0	1
46	Phenotypic and Genetic Correlations Between the Lobar Segments of the Inferior Fronto-occipital Fasciculus and Attention. <i>Scientific Reports</i> , 2016, 6, 33015.	1.6	9
47	Probabilistic Tractography for Topographically Organized Connectomes. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 201-209.	1.0	11
48	Brainhack: a collaborative workshop for the open neuroscience community. <i>GigaScience</i> , 2016, 5, 16.	3.3	34
49	Automated retinofugal visual pathway reconstruction with multi-shell HARDI and FOD-based analysis. <i>NeuroImage</i> , 2016, 125, 767-779.	2.1	50
50	Riemannian Metric Optimization for Connectivity-Driven Surface Mapping. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 228-236.	1.0	6
51	Automated multi-atlas labeling of the fornix and its integrity in alzheimer's disease. , 2015, 2015, 140-143.		23
52	Feasibility of Structural and Functional MRI Acquisition with Unpowered Implants in Argus II Retinal Prosthesis Patients: A Case Study. <i>Translational Vision Science and Technology</i> , 2015, 4, 6.	1.1	19
53	Development of the human fetal hippocampal formation during early second trimester. <i>NeuroImage</i> , 2015, 119, 33-43.	2.1	42
54	Fiber Orientation and Compartment Parameter Estimation From Multi-Shell Diffusion Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2320-2332.	5.4	52

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55	Track Filtering via Iterative Correction of TDI Topology. Lecture Notes in Computer Science, 2015, 9349, 20-27.	1.0	4
56	Metric Optimization for Surface Analysis in the Laplace-Beltrami Embedding Space. IEEE Transactions on Medical Imaging, 2014, 33, 1447-1463.	5.4	35
57	Technological Advances in Neuroimaging: Neurosurgical Applications for the Future. World Neurosurgery, 2014, 82, 32-34.	0.7	3
58	Cortical Surface Reconstruction via Unified Reeb Analysis of Geometric and Topological Outliers in Magnetic Resonance Images. IEEE Transactions on Medical Imaging, 2013, 32, 511-530.	5.4	27
59	Labeling white matter tracts in hardi by fusing multiple tract atlases with applications to genetics. , 2013, 2013, 512-515.		22
60	Voxelwise Spectral Diffusional Connectivity and Its Applications to Alzheimer's Disease and Intelligence Prediction. Lecture Notes in Computer Science, 2013, 16, 655-662.	1.0	17
61	Adaptively Constrained Convex Optimization for Accurate Fiber Orientation Estimation with High Order Spherical Harmonics. Lecture Notes in Computer Science, 2013, 16, 485-492.	1.0	6
62	Unified Geometry and Topology Correction for Cortical Surface Reconstruction with Intrinsic Reeb Analysis. Lecture Notes in Computer Science, 2012, 15, 601-608.	1.0	3
63	Automated corpus callosum extraction via Laplace-Beltrami nodal parcellation and intrinsic geodesic curvature flows on surfaces. , 2011, , .		12
64	3D elastic registration improves HARDI-derived fiber alignment and automated tract clustering. , 2011, , .		5
65	CoRPORATE: Cortical Reconstruction by Pruning Outliers with Reeb Analysis and Topology-Preserving Evolution. Lecture Notes in Computer Science, 2011, 22, 233-244.	1.0	7
66	Conformal Metric Optimization on Surface (CMOS) for Deformation and Mapping in Laplace-Beltrami Embedding Space. Lecture Notes in Computer Science, 2011, 14, 327-334.	1.0	21
67	Robust Surface Reconstruction via Laplace-Beltrami Eigen-Projection and Boundary Deformation. IEEE Transactions on Medical Imaging, 2010, 29, 2009-2022.	5.4	47
68	Metric-induced optimal embedding for intrinsic 3D shape analysis. , 2010, , .		18
69	A Riemannian model of regional degeneration of the hippocampus in Alzheimer's disease. , 2010, , .		1
70	A Narrow-Band Approach for Approximating the Laplace-Beltrami Spectrum of 3D Shapes. , 2010, , .		3
71	Automated Sulci Identification via Intrinsic Modeling of Cortical Anatomy. Lecture Notes in Computer Science, 2010, 13, 49-56.	1.0	7
72	Joint Sulcal Detection on Cortical Surfaces With Graphical Models and Boosted Priors. IEEE Transactions on Medical Imaging, 2009, 28, 361-373.	5.4	28

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73	Inverse-Consistent Surface Mapping with Laplace-Beltrami Eigen-Features. Lecture Notes in Computer Science, 2009, 21, 467-478.	1.0	37
74	Cortical Shape Analysis in the Laplace-Beltrami Feature Space. Lecture Notes in Computer Science, 2009, 12, 208-215.	1.0	7
75	Hamiltonâ€™Jacobi Skeleton on Cortical Surfaces. IEEE Transactions on Medical Imaging, 2008, 27, 664-673.	5.4	42
76	A Real-Time Algorithm for the Approximation of Level-Set-Based Curve Evolution. IEEE Transactions on Image Processing, 2008, 17, 645-656.	6.0	166
77	Anisotropic Laplace-Beltrami eigenmaps: Bridging Reeb graphs and skeletons. , 2008, 2008, 1-7.		37
78	Harmonic Surface Mapping with Laplace-Beltrami Eigenmaps. Lecture Notes in Computer Science, 2008, 11, 147-154.	1.0	21
79	HAMILTON-JACOBI SKELETONS ON CORTICAL SURFACES WITH APPLICATIONS IN CHARACTERIZING THE CYRIFICATION PATTERN IN WILLIAMS SYNDROME. , 2007, , .		2
80	Direct mapping of hippocampal surfaces with intrinsic shape context. NeuroImage, 2007, 37, 792-807.	2.1	48
81	Direct cortical mapping via solving partial differential equations on implicit surfaces. Medical Image Analysis, 2007, 11, 207-223.	7.0	34
82	Joint Sulci Detection Using Graphical Models and Boosted Priors. Lecture Notes in Computer Science, 2007, 20, 98-109.	1.0	9