

Yogesh Rathi

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

3,861
citations

126907

33
h-index

161849

54
g-index

117
all docs

117
docs citations

117
times ranked

4278
citing authors

#	ARTICLE	IF	CITATIONS
1	Patient-specific connectomic models correlate with, but do not reliably predict, outcomes in deep brain stimulation for obsessive-compulsive disorder. <i>Neuropsychopharmacology</i> , 2022, 47, 965-972.	5.4	22
2	White matter association tracts underlying language and theory of mind: An investigation of 809 brains from the Human Connectome Project. <i>NeuroImage</i> , 2022, 246, 118739.	4.2	18
3	White matter markers and predictors for subject-specific rTMS response in major depressive disorder. <i>Journal of Affective Disorders</i> , 2022, 299, 207-214.	4.1	13
4	Accelerating joint relaxationâ€”diffusion MRI by integrating time division multiplexing and simultaneous multiâ€”slice (TDMâ€”SMS) strategies. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2697-2709.	3.0	3
5	Cell type-specific manifestations of cortical thickness heterogeneity in schizophrenia. <i>Molecular Psychiatry</i> , 2022, 27, 2052-2060.	7.9	29
6	Supwma: Consistent and Efficient Tractography Parcellation of Superficial White Matter with Deep Learning. , 2022, , .		7
7	Model and Predict Age and Sex in Healthy Subjects Using Brain White Matter Features: A Deep Learning Approach. , 2022, , .		4
8	Superficial white matter microstructure affects processing speed in cerebral small vessel disease. <i>Human Brain Mapping</i> , 2022, 43, 5310-5325.	3.6	3
9	Individual deviations from normative models of brain structure in a large cross-sectional schizophrenia cohort. <i>Molecular Psychiatry</i> , 2021, 26, 3512-3523.	7.9	78
10	MRI-based Parcellation and Morphometry of the Individual Rhesus Monkey Brain: the macaque Harvard-Oxford Atlas (mHOA), a translational system referencing a standardized ontology. <i>Brain Imaging and Behavior</i> , 2021, 15, 1589-1621.	2.1	8
11	Large-Scale Evidence for an Association Between Peripheral Inflammation and White Matter Free Water in Schizophrenia and Healthy Individuals. <i>Schizophrenia Bulletin</i> , 2021, 47, 542-551.	4.3	47
12	Microstructural alterations in medial forebrain bundle are associated with <sc>interindividual</sc> pain sensitivity. <i>Human Brain Mapping</i> , 2021, 42, 1130-1137.	3.6	6
13	Elucidating the relationship between white matter structure, demographic, and clinical variables in schizophreniaâ€”a multicenter harmonized diffusion tensor imaging study. <i>Molecular Psychiatry</i> , 2021, 26, 5357-5370.	7.9	17
14	Investigating Sexual Dimorphism of Human White Matter in a Harmonized, Multisite Diffusion Magnetic Resonance Imaging Study. <i>Cerebral Cortex</i> , 2021, 31, 201-212.	2.9	19
15	Probing tissue microstructure by diffusion skewness tensor imaging. <i>Scientific Reports</i> , 2021, 11, 135.	3.3	6
16	The use of hydrogel-delivered extracellular vesicles in recovery of motor function in stroke: a testable experimental hypothesis for clinical translation including behavioral and neuroimaging assessment approaches. <i>Neural Regeneration Research</i> , 2021, 16, 605.	3.0	20
17	Microstructural Changes in the Left Mesocorticolimbic Pathway are Associated with the Comorbid Development of Fatigue and Depression in Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2021, 31, 501-507.	2.0	7
18	Network Analysis of Symptom Comorbidity in Schizophrenia: Relationship to Illness Course and Brain White Matter Microstructure. <i>Schizophrenia Bulletin</i> , 2021, 47, 1156-1167.	4.3	10

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19	FiberStars: Visual Comparison of Diffusion Tractography Data between Multiple Subjects. , 2021, , .		3
20	SNR-enhanced diffusion MRI with structure-preserving low-rank denoising in reproducing kernel Hilbert spaces. Magnetic Resonance in Medicine, 2021, 86, 1614-1632.	3.0	13
21	White matter changes in psychosis risk relate to development and are not impacted by the transition to psychosis. Molecular Psychiatry, 2021, 26, 6833-6844.	7.9	15
22	Comparison of multiple tractography methods for reconstruction of the retinogeniculate visual pathway using diffusion MRI. Human Brain Mapping, 2021, 42, 3887-3904.	3.6	21
23	Sex-Related Differences in White Matter Asymmetry and Its Implications for Verbal Working Memory in Psychosis High-Risk State. Frontiers in Psychiatry, 2021, 12, 686967.	2.6	7
24	Exposure to Repetitive Head Impacts Is Associated With Corpus Callosum Microstructure and Plasma Total Tau in Former Professional American Football Players. Journal of Magnetic Resonance Imaging, 2021, 54, 1819-1829.	3.4	7
25	Accelerated diffusion and relaxation-diffusion MRI using time-division multiplexing EPI. Magnetic Resonance in Medicine, 2021, 86, 2528-2541.	3.0	6
26	Rapid whole-brain electric field mapping in transcranial magnetic stimulation using deep learning. PLoS ONE, 2021, 16, e0254588.	2.5	11
27	Improving the predictive potential of diffusion MRI in schizophrenia using normative models-Towards subject-level classification. Human Brain Mapping, 2021, 42, 4658-4670.	3.6	18
28	Individual variations of the human corticospinal tract and its hand-related motor fibers using diffusion MRI tractography. Brain Imaging and Behavior, 2020, 14, 696-714.	2.1	14
29	Detecting microstructural white matter abnormalities of frontal pathways in children with ADHD using advanced diffusion models. Brain Imaging and Behavior, 2020, 14, 981-997.	2.1	29
30	White matter abnormalities across the lifespan of schizophrenia: a harmonized multi-site diffusion MRI study. Molecular Psychiatry, 2020, 25, 3208-3219.	7.9	115
31	Neurocognitive markers of childhood abuse in individuals with PTSD: Findings from the INTRuST Clinical Consortium. Journal of Psychiatric Research, 2020, 121, 108-117.	3.1	7
32	3D Exploration of the Brainstem in 50-Micron Resolution MRI. Frontiers in Neuroanatomy, 2020, 14, 40.	1.7	13
33	S157. A MULTICENTER HARMONIZED DIFFUSION TENSOR IMAGING STUDY ON THE ASSOCIATION OF WHITE MATTER STRUCTURE AND CLINICAL FUNCTIONING. Schizophrenia Bulletin, 2020, 46, S95-S96.	4.3	0
34	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. NeuroImage, 2020, 221, 117128.	4.2	54
35	Quantifying Genetic and Environmental Influence on Gray Matter Microstructure Using Diffusion MRI. Cerebral Cortex, 2020, 30, 6191-6205.	2.9	8
36	Serum Neurosteroid Levels Are Associated With Cortical Thickness in Individuals Diagnosed With Posttraumatic Stress Disorder and History of Mild Traumatic Brain Injury. Clinical EEG and Neuroscience, 2020, 51, 285-299.	1.7	12

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37	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. JCO Clinical Cancer Informatics, 2020, 4, 299-309.	2.1	52
38	High-fidelity, accelerated whole-brain submillimeter in vivo diffusion MRI using gSlider-spherical ridgelets (gSlider-sR). Magnetic Resonance in Medicine, 2020, 84, 1781-1795.	3.0	28
39	Creation of a novel trigeminal tractography atlas for automated trigeminal nerve identification. NeuroImage, 2020, 220, 117063.	4.2	17
40	Deep white matter analysis (DeepWMA): Fast and consistent tractography segmentation. Medical Image Analysis, 2020, 65, 101761.	11.6	57
41	Miswiring of Frontostriatal Projections in Schizophrenia. Schizophrenia Bulletin, 2020, 46, 990-998.	4.3	12
42	Mild traumatic brain injury impacts associations between limbic system microstructure and post-traumatic stress disorder symptomatology. NeuroImage: Clinical, 2020, 26, 102190.	2.7	24
43	Anatomical assessment of trigeminal nerve tractography using diffusion MRI: A comparison of acquisition b-values and single- and multi-fiber tracking strategies. NeuroImage: Clinical, 2020, 25, 102160.	2.7	25
44	How Human Is Human Connectional Neuroanatomy?. Frontiers in Neuroanatomy, 2020, 14, 18.	1.7	12
45	TRAKO: Efficient Transmission of Tractography Data for Visualization. Lecture Notes in Computer Science, 2020, 12267, 322-332.	1.3	3
46	O5.6. ADVANCED DIFFUSION IMAGING IN PSYCHOSIS RISK: A CROSS-SECTIONAL AND LONGITUDINAL STUDY OF WHITE MATTER DEVELOPMENT. Schizophrenia Bulletin, 2020, 46, S13-S13.	4.3	0
47	O7.1. ABNORMAL DEVELOPMENT, FAULTY MATURATION OR ACCELERATED AGING? œWHITE MATTER AT THE CENTER STAGE OF SCHIZOPHRENIAœ-REVISITED. Schizophrenia Bulletin, 2019, 45, S178-S179.	4.3	0
48	Altered Cellular White Matter But Not Extracellular Free Water on Diffusion MRI in Individuals at Clinical High Risk for Psychosis. American Journal of Psychiatry, 2019, 176, 820-828.	7.2	28
49	Test-retest reproducibility of white matter parcellation using diffusion MRI tractography fiber clustering. Human Brain Mapping, 2019, 40, 3041-3057.	3.6	61
50	Abnormalities in gray matter microstructure in young adults with 22q11.2 deletion syndrome. NeuroImage: Clinical, 2019, 21, 101611.	2.7	10
51	Retrospective harmonization of multi-site diffusion MRI data acquired with different acquisition parameters. NeuroImage, 2019, 184, 180-200.	4.2	115
52	Limits and reproducibility of resting-state functional MRI definition of DLPFC targets for neuromodulation. Brain Stimulation, 2019, 12, 129-138.	1.6	45
53	Diffusion Magnetic Resonance Imaging Advances the Study of Nuclei-Specific Thalamocortical Connectivity in Early Stage Psychosis. Biological Psychiatry, 2019, 85, 10-12.	1.3	1
54	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	4.2	200

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55	Deep White Matter Analysis: Fast, Consistent Tractography Segmentation Across Populations and dMRI Acquisitions. Lecture Notes in Computer Science, 2019, 11766, 599-608.	1.3	10
56	Diagnostic value of structural and diffusion imaging measures in schizophrenia. NeuroImage: Clinical, 2018, 18, 467-474.	2.7	27
57	Image Registration to Compensate for EPI Distortion in Patients with Brain Tumors: An Evaluation of Tract-specific Effects. Journal of Neuroimaging, 2018, 28, 173-182.	2.0	15
58	Suprathreshold fiber cluster statistics: Leveraging white matter geometry to enhance tractography statistical analysis. NeuroImage, 2018, 171, 341-354.	4.2	26
59	Cumulant expansions for measuring water exchange using diffusion MRI. Journal of Chemical Physics, 2018, 148, 074109.	3.0	26
60	Alteration of gray matter microstructure in schizophrenia. Brain Imaging and Behavior, 2018, 12, 54-63.	2.1	16
61	Impaired white matter connectivity between regions containing mirror neurons, and relationship to negative symptoms and social cognition, in patients with first-episode schizophrenia. Brain Imaging and Behavior, 2018, 12, 229-237.	2.1	26
62	High-resolution in vivo diffusion imaging of the human brain with generalized slice dithered enhanced resolution: Simultaneous multislice (gS<sc>S</sc>lider<sc>SMS</sc>). Magnetic Resonance in Medicine, 2018, 79, 141-151.	3.0	134
63	Abnormal asymmetry of white matter tracts between ventral posterior cingulate cortex and middle temporal gyrus in recent-onset schizophrenia. Schizophrenia Research, 2018, 192, 159-166.	2.0	22
64	Whole brain white matter connectivity analysis using machine learning: An application to autism. NeuroImage, 2018, 172, 826-837.	4.2	70
65	Probabilistic tractography<sc>based thalamic parcellation in healthy newborns and newborns with congenital heart disease. Journal of Magnetic Resonance Imaging, 2018, 47, 1626-1637.	3.4	8
66	T201. THE STUDY OF WHITE MATTER MATURATION IN THREE POPULATIONS OF GENETIC HIGH RISK FOR SCHIZOPHRENIA INDIVIDUALS SPANNING THE DEVELOPMENTAL TIMELINE. Schizophrenia Bulletin, 2018, 44, S194-S195.	4.3	0
67	Harmonizing Diffusion MRI Data Across Magnetic Field Strengths. Lecture Notes in Computer Science, 2018, , 116-124.	1.3	17
68	Genetic load determines atrophy in hand cortico<sc>striatal pathways in presymptomatic Huntington's disease. Human Brain Mapping, 2018, 39, 3871-3883.	3.6	13
69	An anatomically curated fiber clustering white matter atlas for consistent white matter tract parcellation across the lifespan. NeuroImage, 2018, 179, 429-447.	4.2	146
70	Investigation into local white matter abnormality in emotional processing and sensorimotor areas using an automatically annotated fiber clustering in major depressive disorder. NeuroImage, 2018, 181, 16-29.	4.2	34
71	Free water modeling of peritumoral edema using multi-fiber tractography: Application to tracking the arcuate fasciculus for neurosurgical planning. PLoS ONE, 2018, 13, e0197056.	2.5	40
72	The social brain network in 22q11.2 deletion syndrome: a diffusion tensor imaging study. Behavioral and Brain Functions, 2017, 13, 4.	3.3	28

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73	Diffusion imaging of mild traumatic brain injury in the impact accelerated rodent model: A pilot study. <i>Brain Injury</i> , 2017, 31, 1376-1381.	1.2	19
74	Longitudinal diffusion changes in prodromal and early <scp>HD</scp>: Evidence of whiteâ€matter tract deterioration. <i>Human Brain Mapping</i> , 2017, 38, 1460-1477.	3.6	45
75	Reduced Structural Connectivity in Frontostriatal White Matter Tracts in the Associative Loop in Schizophrenia. <i>American Journal of Psychiatry</i> , 2017, 174, 1102-1111.	7.2	60
76	SlicerDMRI: Open Source Diffusion MRI Software for Brain Cancer Research. <i>Cancer Research</i> , 2017, 77, e101-e103.	0.9	89
77	Automated connectivity-based groupwise cortical atlas generation: Application to data of neurosurgical patients with brain tumors for cortical parcellation prediction. , 2017, , .		5
78	Performance of unscented Kalman filter tractography in edema: Analysis of the two-tensor model. <i>NeuroImage: Clinical</i> , 2017, 15, 819-831.	2.7	37
79	Precise Inference and Characterization of Structural Organization (PICASO) of tissue from molecular diffusion. <i>NeuroImage</i> , 2017, 146, 452-473.	4.2	17
80	New insights about time-varying diffusivity and its estimation from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 763-774.	3.0	11
81	Automated white matter fiber tract identification in patients with brain tumors. <i>NeuroImage: Clinical</i> , 2017, 13, 138-153.	2.7	109
82	Estimation of Bounded and Unbounded Trajectories in Diffusion MRI. <i>Frontiers in Neuroscience</i> , 2016, 10, 129.	2.8	3
83	Joint Multi-Fiber NODDI Parameter Estimation and Tractography Using the Unscented Information Filter. <i>Frontiers in Neuroscience</i> , 2016, 10, 166.	2.8	56
84	Corticospinal tract modeling for neurosurgical planning by tracking through regions of peritumoral edema and crossing fibers using two-tensor unscented Kalman filter tractography. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1475-1486.	2.8	42
85	The white matter query language: a novel approach for describing human white matter anatomy. <i>Brain Structure and Function</i> , 2016, 221, 4705-4721.	2.3	170
86	A joint compressed-sensing and super-resolution approach for very high-resolution diffusion imaging. <i>NeuroImage</i> , 2016, 125, 386-400.	4.2	49
87	Variability and anatomical specificity of the orbitofrontothalamic fibers of passage in the ventral capsule/ventral striatum (VC/VS): precision care for patient-specific tractography-guided targeting of deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). <i>Brain Imaging and Behavior</i> , 2016, 10, 1054-1067.	2.1	115
88	Functional Consequences of Neurite Orientation Dispersion and Density in Humans across the Adult Lifespan. <i>Journal of Neuroscience</i> , 2015, 35, 1753-1762.	3.6	120
89	Estimating Diffusion Propagator and Its Moments Using Directional Radial Basis Functions. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2058-2078.	8.9	59
90	Sparse Reconstruction Challenge for diffusion MRI: Validation on a physical phantom to determine which acquisition scheme and analysis method to use?. <i>Medical Image Analysis</i> , 2015, 26, 316-331.	11.6	78

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91	Sparse deconvolution of higher order tensor for fiber orientation distribution estimation. Artificial Intelligence in Medicine, 2015, 65, 229-238.	6.5	5
92	Reconstruction of the arcuate fasciculus for surgical planning in the setting of peritumoral edema using two-tensor unscented Kalman filter tractography. NeuroImage: Clinical, 2015, 7, 815-822.	2.7	60
93	Fusion of white and gray matter geometry: A framework for investigating brain development. Medical Image Analysis, 2014, 18, 1349-1360.	11.6	22
94	Cerebral white matter abnormalities and their associations with negative but not positive symptoms of schizophrenia. Psychiatry Research - Neuroimaging, 2014, 222, 52-59.	1.8	39
95	Fiber feature map based landmark initialization for highly deformable DTI registration. , 2013, 8669, .		1
96	Increased Gray Matter Diffusion Anisotropy in Patients with Persistent Post-Concussive Symptoms following Mild Traumatic Brain Injury. PLoS ONE, 2013, 8, e66205.	2.5	89
97	Diffusion Propagator Estimation from Sparse Measurements in a Tractography Framework. Lecture Notes in Computer Science, 2013, 16, 510-517.	1.3	22
98	Combining Surface and Fiber Geometry: An Integrated Approach to Brain Morphology. Lecture Notes in Computer Science, 2013, 16, 50-57.	1.3	2
99	Spatially Regularized Compressed Sensing for High Angular Resolution Diffusion Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 1100-1115.	8.9	134
100	A full bi-tensor neural tractography algorithm using the unscented Kalman filter. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	9
101	Statistical analysis of fiber bundles using multi-tensor tractography: application to first-episode schizophrenia. Magnetic Resonance Imaging, 2011, 29, 507-515.	1.8	33
102	Compressed sensing of diffusion MRI data using spatial regularization and positivity constraints. , 2011, , .		0
103	A swarm tracking approach for stochastic white matter tractography. , 2011, , .		1
104	Sparse Multi-Shell Diffusion Imaging. Lecture Notes in Computer Science, 2011, 14, 58-65.	1.3	38
105	Filtered Multitensor Tractography. IEEE Transactions on Medical Imaging, 2010, 29, 1664-1675.	8.9	196
106	Tensor kernels for simultaneous fiber model estimation and tractography. Magnetic Resonance in Medicine, 2010, 64, 138-148.	3.0	7
107	Disease classification: A probabilistic approach. , 2010, , .		1
108	Spatially regularized q-ball imaging using spherical ridgelets. , 2010, , .		2

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109	Biomarkers for Identifying First-Episode Schizophrenia Patients Using Diffusion Weighted Imaging. Lecture Notes in Computer Science, 2010, 13, 657-665.	1.3	13
110	Affine Registration of label maps in Label Space. Journal of Computing, 2010, 2, 1-11.	2.0	12
111	Directional functions for orientation distribution estimation. Medical Image Analysis, 2009, 13, 432-444.	11.6	47
112	Orientation distribution estimation for Q-ball imaging. , 2008, , .		5
113	Fast approximate surface evolution in arbitrary dimension. , 2008, 6914, .		10
114	Directional functions for orientation distribution estimation. , 2008, , .		3
115	On approximation of orientation distributions by means of spherical ridgelets. , 2008, , .		7