

Stamatios N Sotiropoulos

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

18,108
citations

57758

44
h-index

88630

70
g-index

96
all docs

96
docs citations

96
times ranked

15222
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Connectome Analysis Reveals Reshaping of Visual, Spatial Networks in a Model With Vascular Dementia Features. <i>Stroke</i> , 2022, 53, 1735-1745.	2.0	4
2	Anticholinergic drugs and forebrain magnetic resonance imaging changes in cognitively normal people and those with mild cognitive impairment. <i>European Journal of Neurology</i> , 2022, 29, 1344-1353.	3.3	5
3	Right fronto-parietal networks mediate the neurocognitive benefits of enriched environments. <i>Brain Communications</i> , 2022, 4, fcac080.	3.3	3
4	The association between inadequate sleep and accelerated brain ageing. <i>Neurobiology of Aging</i> , 2022, 114, 1-14.	3.1	13
5	The Developing Human Connectome Project Neonatal Data Release. <i>Frontiers in Neuroscience</i> , 2022, 16, .	2.8	42
6	Predicting time-resolved electrophysiological brain networks from structural eigenmodes. <i>Human Brain Mapping</i> , 2022, 43, 4475-4491.	3.6	17
7	Uncertainty modelling in deep learning for safer neuroimage enhancement: Demonstration in diffusion MRI. <i>NeuroImage</i> , 2021, 225, 117366.	4.2	59
8	Quantum computing at the frontiers of biological sciences. <i>Nature Methods</i> , 2021, 18, 701-709.	19.0	64
9	Modelling white matter in gyral blades as a continuous vector field. <i>NeuroImage</i> , 2021, 227, 117693.	4.2	15
10	The Human Connectome Project: A retrospective. <i>NeuroImage</i> , 2021, 244, 118543.	4.2	114
11	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4348.	2.8	18
12	Non-negative data-driven mapping of structural connections with application to the neonatal brain. <i>NeuroImage</i> , 2020, 222, 117273.	4.2	14
13	Towards HCP-Style macaque connectomes: 24-Channel 3T multi-array coil, MRI sequences and preprocessing. <i>NeuroImage</i> , 2020, 215, 116800.	4.2	67
14	XTRACT - Standardised protocols for automated tractography in the human and macaque brain. <i>NeuroImage</i> , 2020, 217, 116923.	4.2	165
15	The role of node dynamics in shaping emergent functional connectivity patterns in the brain. <i>Network Neuroscience</i> , 2020, 4, 467-483.	2.6	25
16	Improved fibre dispersion estimation using b-tensor encoding. <i>NeuroImage</i> , 2020, 215, 116832.	4.2	17
17	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. <i>NeuroImage</i> , 2019, 185, 750-763.	4.2	127
18	Mechanisms and Risk Factors Contributing to Visual Field Deficits following Stereotactic Laser Amygdalohippocampotomy. <i>Stereotactic and Functional Neurosurgery</i> , 2019, 97, 255-265.	1.5	14

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19	MRS and DTI evidence of progressive posterior cingulate cortex and corpus callosum injury in the hyper-acute phase after Traumatic Brain Injury. <i>Brain Injury</i> , 2019, 33, 854-868.	1.2	10
20	Hierarchical Heterogeneity across Human Cortex Shapes Large-Scale Neural Dynamics. <i>Neuron</i> , 2019, 101, 1181-1194.e13.	8.1	271
21	How do spatially distinct frequency specific MEG networks emerge from one underlying structural connectome? The role of the structural eigenmodes. <i>NeuroImage</i> , 2019, 186, 211-220.	4.2	81
22	Using GPUs to accelerate computational diffusion MRI: From microstructure estimation to tractography and connectomes. <i>NeuroImage</i> , 2019, 188, 598-615.	4.2	107
23	Automated quality control for within and between studies diffusion MRI data using a non-parametric framework for movement and distortion correction. <i>NeuroImage</i> , 2019, 184, 801-812.	4.2	197
24	Building connectomes using diffusion MRI: why, how and but. <i>NMR in Biomedicine</i> , 2019, 32, e3752.	2.8	209
25	Bayesian Optimisation of Large-Scale Biophysical Networks. <i>NeuroImage</i> , 2018, 174, 219-236.	4.2	16
26	A gyral coordinate system predictive of fibre orientations. <i>NeuroImage</i> , 2018, 176, 417-430.	4.2	13
27	Time-efficient and flexible design of optimized multishell HARDI diffusion. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1276-1292.	3.0	72
28	Estimation of white matter fiber parameters from compressed multiresolution diffusion MRI using sparse Bayesian learning. <i>NeuroImage</i> , 2018, 167, 488-503.	4.2	6
29	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018, 166, 400-424.	4.2	1,026
30	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018, 183, 972-984.	4.2	290
31	Cognition based bTBI mechanistic criteria; a tool for preventive and therapeutic innovations. <i>Scientific Reports</i> , 2018, 8, 10273.	3.3	25
32	A biophysical model of dynamic balancing of excitation and inhibition in fast oscillatory large-scale networks. <i>PLoS Computational Biology</i> , 2018, 14, e1006007.	3.2	73
33	Whole brain comparative anatomy using connectivity blueprints. <i>ELife</i> , 2018, 7, .	6.0	135
34	Studying neuroanatomy using MRI. <i>Nature Neuroscience</i> , 2017, 20, 314-326.	14.8	220
35	On the mechanical behaviour of PEEK and HA cranial implants under impact loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 342-354.	3.1	70
36	Image quality transfer and applications in diffusion MRI. <i>NeuroImage</i> , 2017, 152, 283-298.	4.2	91

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37	Evaluating fibre orientation dispersion in white matter: Comparison of diffusion MRI, histology and polarized light imaging. <i>NeuroImage</i> , 2017, 157, 561-574.	4.2	141
38	A Sparse Bayesian Learning Algorithm for White Matter Parameter Estimation from Compressed Multi-shell Diffusion MRI. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 602-610.	1.3	0
39	Subthalamic deep brain stimulation sweet spots and hyperdirect cortical connectivity in Parkinson's disease. <i>NeuroImage</i> , 2017, 158, 332-345.	4.2	197
40	Improved tractography using asymmetric fibre orientation distributions. <i>NeuroImage</i> , 2017, 158, 205-218.	4.2	39
41	Bayesian Image Quality Transfer with CNNs: Exploring Uncertainty in dMRI Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2017, , 611-619.	1.3	67
42	The heritability of multi-modal connectivity in human brain activity. <i>ELife</i> , 2017, 6, .	6.0	107
43	Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the Human Connectome Project. <i>NeuroImage</i> , 2016, 134, 396-409.	4.2	91
44	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016, 19, 1175-1187.	14.8	825
45	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016, 19, 1523-1536.	14.8	1,414
46	Incorporating outlier detection and replacement into a non-parametric framework for movement and distortion correction of diffusion MR images. <i>NeuroImage</i> , 2016, 141, 556-572.	4.2	559
47	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. <i>Journal of Neuroscience</i> , 2016, 36, 6758-6770.	3.6	318
48	An integrated approach to correction for off-resonance effects and subject movement in diffusion MR imaging. <i>NeuroImage</i> , 2016, 125, 1063-1078.	4.2	2,562
49	A probabilistic atlas of the cerebellar white matter. <i>NeuroImage</i> , 2016, 124, 724-732.	4.2	74
50	Structural Organization of the Corpus Callosum Predicts Attentional Shifts after Continuous Theta Burst Stimulation. <i>Journal of Neuroscience</i> , 2015, 35, 15353-15368.	3.6	45
51	High resolution whole brain diffusion imaging at 7 T for the Human Connectome Project. <i>NeuroImage</i> , 2015, 122, 318-331.	4.2	166
52	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015, 111, 300-311.	4.2	227
53	Measuring macroscopic brain connections in vivo. <i>Nature Neuroscience</i> , 2015, 18, 1546-1555.	14.8	292
54	Non-parametric representation and prediction of single- and multi-shell diffusion-weighted MRI data using Gaussian processes. <i>NeuroImage</i> , 2015, 122, 166-176.	4.2	226

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55	Sparse Bayesian Inference of White Matter Fiber Orientations from Compressed Multi-resolution Diffusion MRI. Lecture Notes in Computer Science, 2015, 9349, 117-124.	1.3	4
56	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PLoS ONE, 2015, 10, e0138910.	2.5	27
57	Mapping Connections in Humans and Non-Human Primates. , 2014, , 337-358.		53
58	MR Diffusion Tractography. , 2014, , 429-451.		14
59	Study protocol: the Whitehall II imaging sub-study. BMC Psychiatry, 2014, 14, 159.	2.6	82
60	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: Reducing the noise floor using SENSE. Magnetic Resonance in Medicine, 2013, 70, 1682-1689.	3.0	169
61	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. NeuroImage, 2013, 80, 125-143.	4.2	851
62	RubiX: Combining Spatial Resolutions for Bayesian Inference of Crossing Fibers in Diffusion MRI. IEEE Transactions on Medical Imaging, 2013, 32, 969-982.	8.9	32
63	The topographic connectome. Current Opinion in Neurobiology, 2013, 23, 207-215.	4.2	99
64	The minimal preprocessing pipelines for the Human Connectome Project. NeuroImage, 2013, 80, 105-124.	4.2	4,042
65	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. NeuroImage, 2013, 80, 80-104.	4.2	769
66	Accelerating Fibre Orientation Estimation from Diffusion Weighted Magnetic Resonance Imaging Using GPUs. PLoS ONE, 2013, 8, e61892.	2.5	152
67	Accelerating Fibre Orientation Estimation from Diffusion Weighted Magnetic Resonance Imaging Using GPUs. , 2012, , .		51
68	Ball and rackets: Inferring fiber fanning from diffusion-weighted MRI. NeuroImage, 2012, 60, 1412-1425.	4.2	142
69	Model-based analysis of multishell diffusion MR data for tractography: How to get over fitting problems. Magnetic Resonance in Medicine, 2012, 68, 1846-1855.	3.0	336
70	Fuzzy anatomical connectedness of the brain using single and multiple fibre orientations estimated from diffusion MRI. Computerized Medical Imaging and Graphics, 2010, 34, 504-513.	5.8	6
71	Exact and analytic bayesian inference for orientation distribution functions. , 2010, , .		1
72	Brain tractography using Q-ball imaging and graph theory: Improved connectivities through fibre crossings via a model-based approach. NeuroImage, 2010, 49, 2444-2456.	4.2	56

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73	Robust graph-based tracking through crossing fibre configurations. , 2009, , .		1
74	A regularized two-tensor model fit to low angular resolution diffusion images using basis directions. Journal of Magnetic Resonance Imaging, 2008, 28, 199-209.	3.4	31
75	In-vivo brain anatomical connectivity using diffusion magnetic resonance imaging and fuzzy connectedness. , 2008, , .		2
76	Assessing the direct effects of deep brain stimulation using embedded axon models. Journal of Neural Engineering, 2007, 4, 107-119.	3.5	58