Fernando Calamante

List of Publications by Year
in descending order

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125 papers	15,029 citations	41344 49 h-index	21540 114 g-index
135 all docs	135 docs citations	135 times ranked	12002 citing authors

#	Article	IF	Citations
1	IVIMâ€“DKIÂfor differentiation between prostate cancer and benign prostatic hyperplasia: comparison of 1.5ÂT vs. 3ÂT MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 609-620.	2.0	7
2	FOD-Net: A deep learning method for fiber orientation distribution angular super resolution. Medical Image Analysis, 2022, 79, 102431.	11.6	9
3	A robust framework for characterising diffusion metrics of the median and ulnar nerves: Exploiting stateâ€ofâ€theâ€art tracking methods. Journal of the Peripheral Nervous System, 2022, 27, 67-83.	3.1	2
4	Network communication models narrow the gap between the modular organization of structural and functional brain networks. NeuroImage, 2022, 257, 119323.	4.2	32
5	CONN-NLM: A Novel CONNectome-Based Non-local Means Filter for PET-MRI Denoising. Frontiers in Neuroscience, 2022, 16, .	2.8	2
6	Individual deviations from normative models of brain structure in a large cross-sectional schizophrenia cohort. Molecular Psychiatry, 2021, 26, 3512-3523.	7.9	78
7	Characterisation of white matter asymmetries in the healthy human brain using diffusion MRI fixel-based analysis. NeuroImage, 2021, 225, 117505.	4.2	21
8	Restâ€“activity functioning is related to white matter microarchitecture and modifiable risk factors in older adults at-risk for dementia. Sleep, 2021, 44, .	1.1	4
9	TractLearn: A geodesic learning framework for quantitative analysis of brain bundles. NeuroImage, 2021, 233, 117927.	4.2	7
10	Diffusion MRI tractography for neurosurgery: the basics, current state, technical reliability and challenges. Physics in Medicine and Biology, 2021, 66, 15TR01.	3.0	25
11	Automated Perfusion-Diffusion Magnetic Resonance Imaging in Childhood Arterial Ischemic Stroke. Stroke, 2021, 52, 3296-3304.	2.0	3
12	Investigating white matter structure in social anxiety disorder using fixel-based analysis. Journal of Psychiatric Research, 2021, 143, 30-37.	3.1	2
13	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	4.2	94
14	Increased cerebral blood flow with increased amyloid burden in the preclinical phase of alzheimer's disease. Journal of Magnetic Resonance Imaging, 2020, 51, 505-513.	3.4	35
15	Mapping connectomes with diffusion MRI: Deterministic or probabilistic tractography?. Magnetic Resonance in Medicine, 2020, 83, 787-790.	3.0	11
16	Multi-stage automated local arterial input function selection in perfusion MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 357-365.	2.0	4
17	Notes on â€œA cautionary note on the use of SIFT in pathological connectomesâ€. Magnetic Resonance in Medicine, 2020, 84, 2303-2307.	3.0	3
18	Diffusion MRI Fiber Tractography. Advances in Magnetic Resonance Technology and Applications, 2020, 1, 533-569.	0.1	3

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19	Robust Identification of Rich-Club Organization in Weighted and Dense Structural Connectomes. Brain Topography, 2019, 32, 1-16.	1.8	6
20	The Seven Deadly Sins of Measuring Brain Structural Connectivity Using Diffusion MRI Streamlines Fibre-Tracking. Diagnostics, 2019, 9, 115.	2.6	63
21	Effect of combination and number of b values in IVIM analysis with post-processing methodology: simulation and clinical study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 519-527.	2.0	15
22	Connectomes from streamlines tractography: Assigning streamlines to brain parcellations is not trivial but highly consequential. NeuroImage, 2019, 199, 160-171.	4.2	31
23	A Novel Method for Extracting Hierarchical Functional Subnetworks Based on a Multisubject Spectral Clustering Approach. Brain Connectivity, 2019, 9, 399-414.	1.7	2
24	Is removal of weak connections necessary for graph-theoretical analysis of dense weighted structural connectomes from diffusion MRI?. NeuroImage, 2019, 194, 68-81.	4.2	64
25	Linking Cortical and Connectional Pathology in Schizophrenia. Schizophrenia Bulletin, 2019, 45, 911-923.	4.3	24
26	A Novel Group-Fused Sparse Partial Correlation Method for Simultaneous Estimation of Functional Networks in Group Comparison Studies. Brain Topography, 2018, 31, 364-379.	1.8	5
27	Arterial Spin-Labeling Improves Detection of Intracranial Dural Arteriovenous Fistulas with MRI. American Journal of Neuroradiology, 2018, 39, 669-677.	2.4	37
28	The role of wholeâ€brain diffusion MRI as a tool for studying human in vivo cortical segregation based on a measure of neurite density. Magnetic Resonance in Medicine, 2018, 79, 2738-2744.	3.0	33
29	P1â€440: INCREASED CEREBRAL BLOOD FLOW WITH INCREASED AMYLOID BURDEN IN PRECLINICAL AD. Alzheimer's and Dementia, 2018, 14, P479.	0.8	0
30	Guidelines for documentation and consent for nonclinical, nonresearch MRI in human subjects. Journal of Magnetic Resonance Imaging, 2017, 45, 36-41.	3.4	1
31	Track-weighted imaging methods: extracting information from a streamlines tractogram. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 317-335.	2.0	46
32	Track-weighted dynamic functional connectivity (TW-dFC): a new method to study time-resolved functional connectivity. Brain Structure and Function, 2017, 222, 3761-3774.	2.3	19
33	Gadolinium deposition in the brain: summary of evidence and recommendations. Lancet Neurology, The, 2017, 16, 564-570.	10.2	600
34	Contralateral cortico-ponto-cerebellar pathways reconstruction in humans in vivo: implications for reciprocal cerebro-cerebellar structural connectivity in motor and non-motor areas. Scientific Reports, 2017, 7, 12841.	3.3	152
35	Chelated or dechelated gadolinium deposition â€“ Authors' reply. Lancet Neurology, The, 2017, 16, 955-956.	10.2	5
36	Periventricular Nodular Heterotopia: Detection of Abnormal Microanatomic Fiber Structures with Whole-Brain Diffusion MR Imaging Tractography. Radiology, 2016, 281, 896-906.	7.3	23

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37	Recommended responsibilities for management of MR safety. Journal of Magnetic Resonance Imaging, 2016, 44, 1067-1069.	3.4	28
38	Analysis of perfusion MRI in stroke: To deconvolve, or not to deconvolve. Magnetic Resonance in Medicine, 2016, 76, 1282-1290.	3.0	26
39	A novel joint sparse partial correlation method for estimating group functional networks. Human Brain Mapping, 2016, 37, 1162-1177.	3.6	13
40	Correction for diffusion MRI fibre tracking biases: The consequences for structural connectomic metrics. NeuroImage, 2016, 142, 150-162.	4.2	65
41	A novel approach to measure local cerebral haematocrit using MRI. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 768-780.	4.3	12
42	The contribution of geometry to the human connectome. NeuroImage, 2016, 124, 379-393.	4.2	181
43	Correcting for large vessel contamination in dynamic susceptibility contrast perfusion MRI by extension to a physiological model of the vasculature. Magnetic Resonance in Medicine, 2015, 74, 280-290.	3.0	6
44	A Newly Identified Frontal Path from Fornix in Septum Pellucidum with 7.0T MRI Track Density Imaging (TDI) â€“ The Septum Pellucidum Tract (SPT). Frontiers in Neuroanatomy, 2015, 9, 151.	1.7	19
45	Quantification of voxel-wise total fibre density: Investigating the problems associated with track-count mapping. NeuroImage, 2015, 117, 284-293.	4.2	44
46	Contralateral cerebello-thalamo-cortical pathways with prominent involvement of associative areas in humans in vivo. Brain Structure and Function, 2015, 220, 3369-3384.	2.3	154
47	Reproducibility of multiphase pseudo-continuous arterial spin labeling and the effect of post-processing analysis methods. NeuroImage, 2015, 117, 191-201.	4.2	22
48	The effects of SIFT on the reproducibility and biological accuracy of the structural connectome. NeuroImage, 2015, 104, 253-265.	4.2	213
49	Fourier Tract Sampling (FouTS): A framework for improved inference of white matter tracts from diffusion MRI by explicitly modelling tract volume. NeuroImage, 2015, 120, 412-427.	4.2	6
50	Voxel-Wise Functional Connectomics Using Arterial Spin Labeling Functional Magnetic Resonance Imaging: The Role of Denoising. Brain Connectivity, 2015, 5, 543-553.	1.7	26
51	SIFT2: Enabling dense quantitative assessment of brain white matter connectivity using streamlines tractography. NeuroImage, 2015, 119, 338-351.	4.2	506
52	Enhanced characterization of the zebrafish brain as revealed by super-resolution track-density imaging. Brain Structure and Function, 2015, 220, 457-468.	2.3	16
53	MR system operator: Recommended minimum requirements for performing MRI in human subjects in a research setting. Journal of Magnetic Resonance Imaging, 2015, 41, 899-902.	3.4	10
54	Perfusion Magnetic Resonance Imaging: A Comprehensive Update on Principles and Techniques. Korean Journal of Radiology, 2014, 15, 554.	3.4	177

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55	A variable flip angle-based method for reducing blurring in 3D GRASE ASL. Physics in Medicine and Biology, 2014, 59, 5559-5573.	3.0	17
56	Graph analysis of resting-state ASL perfusion MRI data: Nonlinear correlations among CBF and network metrics. NeuroImage, 2014, 87, 265-275.	4.2	41
57	Pictorial Review of In Vivo Human Brain: From Anatomy to Molecular Imaging. World Neurosurgery, 2014, 82, 72-95.	1.3	11
58	Modeling the residue function in DSCâ€MRI simulations: Analytical approximation to in vivo data. Magnetic Resonance in Medicine, 2014, 72, 1486-1491.	3.0	9
59	Modeling and correction of bolus dispersion effects in dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 2014, 72, 1762-1774.	3.0	15
60	Mapping somatosensory connectivity in adult mice using diffusion MRI tractography and super-resolution track density imaging. NeuroImage, 2014, 102, 381-392.	4.2	15
61	Quantification of track-weighted imaging (TWI): Characterisation of within-subject reproducibility and between-subject variability. NeuroImage, 2014, 87, 18-31.	4.2	36
62	Visualization of mouse barrel cortex using ex-vivo track density imaging. NeuroImage, 2014, 87, 465-475.	4.2	21
63	Improved partial volume correction for single inversion time arterial spin labeling data. Magnetic Resonance in Medicine, 2013, 69, 531-537.	3.0	33
64	The 39 steps: evading error and deciphering the secrets for accurate dynamic susceptibility contrast MRI. NMR in Biomedicine, 2013, 26, 913-931.	2.8	98
65	Track-weighted functional connectivity (TW-FC): A tool for characterizing the structuralâ€“functional connections in the brain. NeuroImage, 2013, 70, 199-210.	4.2	40
66	SIFT: Spherical-deconvolution informed filtering of tractograms. NeuroImage, 2013, 67, 298-312.	4.2	573
67	Super-resolution track-density imaging of thalamic substructures: Comparison with high-resolution anatomical magnetic resonance imaging at 7.0T. Human Brain Mapping, 2013, 34, 2538-2548.	3.6	61
68	White matter fiber tractography: why we need to move beyond DTI. Journal of Neurosurgery, 2013, 118, 1367-1377.	1.6	386
69	Arterial input function in perfusion MRI: A comprehensive review. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 74, 1-32.	7.5	174
70	Acute Stroke Imaging Research Roadmap II. Stroke, 2013, 44, 2628-2639.	2.0	192
71	Determination of the appropriate b value and number of gradient directions for highâ€angularâ€resolution diffusionâ€weighted imaging. NMR in Biomedicine, 2013, 26, 1775-1786.	2.8	346
72	Mouse Brain Kaleidoscope. Neurology, 2012, 79, 1829-1829.	1.1	1

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73	The Role of Bolus Delay and Dispersion in Predictor Models for Stroke. Stroke, 2012, 43, 1025-1031.	2.0	16
74	Super-resolution track-density imaging studies of mouse brain: Comparison to histology. NeuroImage, 2012, 59, 286-296.	4.2	105
75	A generalised framework for super-resolution track-weighted imaging. NeuroImage, 2012, 59, 2494-2503.	4.2	77
76	Anatomically-constrained tractography: Improved diffusion MRI streamlines tractography through effective use of anatomical information. NeuroImage, 2012, 62, 1924-1938.	4.2	897
77	MRtrix: Diffusion tractography in crossing fiber regions. International Journal of Imaging Systems and Technology, 2012, 22, 53-66.	4.1	1,191
78	A kâ€space sharing 3D GRASE pseudocontinuous ASL method for wholeâ€brain restingâ€state functional connectivity. International Journal of Imaging Systems and Technology, 2012, 22, 37-43.	4.1	25
79	Perfusion Magnetic Resonance Imaging Quantification in the Brain. Neuromethods, 2012, , 283-312.	0.3	0
80	Validating a Local Arterial Input Function Method for Improved Perfusion Quantification in Stroke. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2189-2198.	4.3	31
81	Track density imaging (TDI): Validation of super resolution property. NeuroImage, 2011, 56, 1259-1266.	4.2	92
82	New criterion to aid manual and automatic selection of the arterial input function in dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 2011, 65, 448-456.	3.0	28
83	Markov Chain Monte Carlo Random Effects Modeling in Magnetic Resonance Image Processing Using theBRugsInterface toWinBUGS. Journal of Statistical Software, 2011, 44, .	3.7	5
84	The Physiological Significance of the Time-to-Maximum (Tmax) Parameter in Perfusion MRI. Stroke, 2010, 41, 1169-1174.	2.0	161
85	Reduction of errors in ASL cerebral perfusion and arterial transit time maps using image deâ€noising. Magnetic Resonance in Medicine, 2010, 64, 715-724.	3.0	43
86	Perfusion MRI Using Dynamic-Susceptibility Contrast MRI. Topics in Magnetic Resonance Imaging, 2010, 21, 75-85.	1.2	44
87	The effect of finite diffusion gradient pulse duration on fibre orientation estimation in diffusion MRI. NeuroImage, 2010, 51, 743-751.	4.2	22
88	Track-density imaging (TDI): Super-resolution white matter imaging using whole-brain track-density mapping. NeuroImage, 2010, 53, 1233-1243.	4.2	361
89	Nonlinear Î”R effects in perfusion quantification using bolusâ€tracking MRI. Magnetic Resonance in Medicine, 2009, 61, 486-492.	3.0	43
90	Perfusion precision in bolusâ€tracking MRI: Estimation using the wildâ€bootstrap method. Magnetic Resonance in Medicine, 2009, 61, 696-704.	3.0	12

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91	Hemodynamics in normal cerebral arteries: qualitative comparison of 4D phase-contrast magnetic resonance and image-based computational fluid dynamics. Journal of Engineering Mathematics, 2009, 64, 367-378.	1.2	63
92	A software tool to generate simulated white matter structures for the assessment of fibre-tracking algorithms. NeuroImage, 2009, 47, 1288-1300.	4.2	75
93	Inferring origin of vascular supply from tracer arrival timing patterns using bolus tracking MRI. Journal of Magnetic Resonance Imaging, 2008, 27, 1371-1381.	3.4	42
94	Resolving crossing fibres using constrained spherical deconvolution: Validation using diffusion-weighted imaging phantom data. NeuroImage, 2008, 42, 617-625.	4.2	524
95	Robust determination of the fibre orientation distribution in diffusion MRI: Non-negativity constrained super-resolved spherical deconvolution. NeuroImage, 2007, 35, 1459-1472.	4.2	1,860
96	Cortical abnormalities and language function in young patients with basal ganglia stroke. NeuroImage, 2007, 36, 431-440.	4.2	21
97	Contrast agent concentration measurements affecting quantification of bolusâ€tracking perfusion MRI. Magnetic Resonance in Medicine, 2007, 58, 544-553.	3.0	67
98	Bolus delay and dispersion in perfusion MRI: Implications for tissue predictor models in stroke. Magnetic Resonance in Medicine, 2006, 55, 1180-1185.	3.0	76
99	Improved deconvolution of perfusion MRI data in the presence of bolus delay and dispersion. Magnetic Resonance in Medicine, 2006, 56, 146-156.	3.0	51
100	Sickle cell disease: Ischemia and seizures. Annals of Neurology, 2005, 58, 290-302.	5.3	54
101	Bolus dispersion issues related to the quantification of perfusion MRI data. Journal of Magnetic Resonance Imaging, 2005, 22, 718-722.	3.4	68
102	Defining a local arterial input function for perfusion MRI using independent component analysis. Magnetic Resonance in Medicine, 2004, 52, 789-797.	3.0	158
103	Direct estimation of the fiber orientation density function from diffusion-weighted MRI data using spherical deconvolution. NeuroImage, 2004, 23, 1176-1185.	4.2	1,466
104	Quantification of bolus-tracking MRI: Improved characterization of the tissue residue function using Tikhonov regularization. Magnetic Resonance in Medicine, 2003, 50, 1237-1247.	3.0	122
105	Estimation of bolus dispersion effects in perfusion MRI using image-based computational fluid dynamics. NeuroImage, 2003, 19, 341-353.	4.2	102
106	Diffusion-weighted magnetic resonance imaging fibre tracking using a front evolution algorithm. NeuroImage, 2003, 20, 276-288.	4.2	64
107	Is quantification of bolus tracking MRI reliable without deconvolution?. Magnetic Resonance in Medicine, 2002, 47, 61-67.	3.0	69
108	Simultaneous noninvasive measurement of CBF and CBV using double-echo FAIR (DEFAIR). Magnetic Resonance in Medicine, 2001, 45, 853-863.	3.0	23

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109	Perfusion magnetic resonance abnormalities in patients with sickle cell disease. Annals of Neurology, 2001, 49, 477-485.	5.3	83
110	Perfusion magnetic resonance abnormalities in patients with sickle cell disease. Annals of Neurology, 2001, 49, 477-485.	5.3	5
111	Sampling and reconstruction effects due to motion in diffusion-weighted interleaved echo planar imaging. Magnetic Resonance in Medicine, 2000, 44, 101-109.	3.0	101
112	Delay and dispersion effects in dynamic susceptibility contrast MRI: Simulations using singular value decomposition. Magnetic Resonance in Medicine, 2000, 44, 466-473.	3.0	446
113	Acute changes in MRI diffusion, perfusion,T1, andT2 in a rat model of oligemia produced by partial occlusion of the middle cerebral artery. Magnetic Resonance in Medicine, 2000, 44, 706-712.	3.0	42
114	Diffusion and Perfusion Magnetic Resonance Imaging in Childhood Stroke. Journal of Child Neurology, 2000, 15, 279-283.	1.4	44
115	The measurement of diffusion and perfusion in biological systems using magnetic resonance imaging. Physics in Medicine and Biology, 2000, 45, R97-R138.	3.0	112
116	Delay and dispersion effects in dynamic susceptibility contrast MRI: Simulations using singular value decomposition. , 2000, 44, 466.		1
117	Delay and dispersion effects in dynamic susceptibility contrast MRI: Simulations using singular value decomposition. Magnetic Resonance in Medicine, 2000, 44, 466-473.	3.0	2
118	Measuring Cerebral Blood Flow Using Magnetic Resonance Imaging Techniques. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 701-735.	4.3	607
119	Correction for eddy current induced Bo shifts in diffusion-weighted echo-planar imaging. Magnetic Resonance in Medicine, 1999, 41, 95-102.	3.0	60
120	Early changes in water diffusion, perfusion, T1, and T2 during focal cerebral ischemia in the rat studied at 8.5 T. Magnetic Resonance in Medicine, 1999, 41, 479-485.	3.0	130
121	Implementation of quantitative FAIR perfusion imaging with a short repetition time in time-course studies. Magnetic Resonance in Medicine, 1999, 41, 829-840.	3.0	68
122	The effect of residual Nyquist ghost in quantitative echo-planar diffusion imaging. Magnetic Resonance in Medicine, 1999, 42, 385-392.	3.0	31
123	Reperfusion in a Gerbil Model of Forebrain Ischemia Using Serial Magnetic Resonance FAIR Perfusion Imaging. Stroke, 1999, 30, 1263-1270.	2.0	14
124	Effects of diffusion anisotropy on lesion delineation in a rat model of cerebral ischemia. Magnetic Resonance in Medicine, 1997, 38, 662-668.	3.0	65
125	A Model for Quantification of Perfusion in Pulsed Labelling Techniques. NMR in Biomedicine, 1996, 9, 79-83.	2.8	78