## Richard M Leahy

## List of Publications by Citations

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113<br/>papers5,901<br/>citations28<br/>h-index76<br/>g-index132<br/>ext. papers7,270<br/>ext. citations4.8<br/>avg, IF5.7<br/>L-index

#	Paper	IF	Citations
113	Brainstorm: a user-friendly application for MEG/EEG analysis. <i>Computational Intelligence and Neuroscience</i> , <b>2011</b> , 2011, 879716	3	1585
112	Magnetic resonance image tissue classification using a partial volume model. <i>NeuroImage</i> , <b>2001</b> , 13, 850	6 <i>-7</i> 7.6	732
111	BrainSuite: an automated cortical surface identification tool. <i>Medical Image Analysis</i> , <b>2002</b> , 6, 129-42	15.4	577
110	High-resolution 3D Bayesian image reconstruction using the microPET small-animal scanner. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 1001-13	3.8	473
109	Iterative reconstruction techniques in emission computed tomography. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, R541-78	3.8	257
108	Coherent neural representation of hand speed in humans revealed by MEG imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 7676-81	11.5	215
107	A comparison of random field theory and permutation methods for the statistical analysis of MEG data. <i>NeuroImage</i> , <b>2005</b> , 25, 383-94	7.9	147
106	Statistical approaches in quantitative positron emission tomography. <i>Statistics and Computing</i> , <b>2000</b> , 10, 147-165	1.8	140
105	Optimization and performance evaluation of the microPET II scanner for in vivo small-animal imaging. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 2527-45	3.8	121
104	Surface-constrained volumetric brain registration using harmonic mappings. <i>IEEE Transactions on Medical Imaging</i> , <b>2007</b> , 26, 1657-69	11.7	112
103	An evaluation of methods for neuromagnetic image reconstruction. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1987</b> , 34, 713-23	5	104
102	Comparison of landmark-based and automatic methods for cortical surface registration. <i>NeuroImage</i> , <b>2010</b> , 49, 2479-93	7.9	100
101	PET image reconstruction using information theoretic anatomical priors. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 537-49	11.7	84
100	Non-local means denoising of dynamic PET images. <i>PLoS ONE</i> , <b>2013</b> , 8, e81390	3.7	81
99	A fingerprint of the epileptogenic zone in human epilepsies. <i>Brain</i> , <b>2018</b> , 141, 117-131	11.2	74
98	Magnetic resonance-guided positron emission tomography image reconstruction. <i>Seminars in Nuclear Medicine</i> , <b>2013</b> , 43, 30-44	5.4	73
97	Identifying true cortical interactions in MEG using the nulling beamformer. <i>NeuroImage</i> , <b>2010</b> , 49, 3161	- <b>7/4</b> 9	71

## (2015-2006)

96	Generic head models for atlas-based EEG source analysis. Human Brain Mapping, 2006, 27, 129-43	5.9	59	
95	Co-registration and distortion correction of diffusion and anatomical images based on inverse contrast normalization. <i>Neurolmage</i> , <b>2015</b> , 115, 269-80	7.9	57	
94	MEG/EEG Group Analysis With Brainstorm. Frontiers in Neuroscience, 2019, 13, 76	5.1	54	
93	Childhood Music Training Induces Change in Micro and Macroscopic Brain Structure: Results from a Longitudinal Study. <i>Cerebral Cortex</i> , <b>2018</b> , 28, 4336-4347	5.1	47	
92	Analysis of Resolution and Noise Properties of Nonquadratically Regularized Image Reconstruction Methods for PET. <i>IEEE Transactions on Medical Imaging</i> , <b>2008</b> , 27, 413-24	11.7	42	
91	Patlak image estimation from dual time-point list-mode PET data. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 913-24	11.7	38	
90	Loneliness and meaning in life are reflected in the intrinsic network architecture of the brain. <i>Social Cognitive and Affective Neuroscience</i> , <b>2019</b> , 14, 423-433	4	34	
89	A Method for Automated Cortical Surface Registration and Labeling. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 7359, 180-189	0.9	34	
88	Accurate estimation of the Fisher information matrix for the PET image reconstruction problem. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 1057-64	11.7	30	
87	How age of acquisition influences brain architecture in bilinguals. <i>Journal of Neurolinguistics</i> , <b>2015</b> , 36, 35-55	1.9	29	
86	Semi-automated method for delineation of landmarks on models of the cerebral cortex. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 178, 385-92	3	29	
85	An equal start: absence of group differences in cognitive, social, and neural measures prior to music or sports training in children. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 690	3.3	25	
84	Exact and approximate Fourier rebinning of PET data from time-of-flight to non time-of-flight. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 467-84	3.8	23	
83	CORTICAL SURFACE PARAMETERIZATION BY P-HARMONIC ENERGY MINIMIZATION <b>2004</b> , 1, 428-431	1.5	22	
82	Altered Structural and Functional Connectivity in Late Preterm Preadolescence: An Anatomic Seed-Based Study of Resting State Networks Related to the Posteromedial and Lateral Parietal Cortex. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130686	3.7	20	
81	Hemoglobin and mean platelet volume predicts diffuse T1-MRI white matter volume decrease in sickle cell disease patients. <i>Neurolmage: Clinical</i> , <b>2017</b> , 15, 239-246	5.3	18	
80	Improved B0 -distortion correction in diffusion MRI using interlaced q-space sampling and constrained reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1218-32	4.4	18	
79	Alterations of resting state networks and structural connectivity in relation to the prefrontal and anterior cingulate cortices in late prematurity. <i>NeuroReport</i> , <b>2015</b> , 26, 22-6	1.7	17	

78	Are you thinking what Ith thinking? Synchronization of resting fMRI time-series across subjects. <i>NeuroImage</i> , <b>2018</b> , 172, 740-752	7.9	16
77	Linear transforms for Fourier data on the sphere: application to high angular resolution diffusion MRI of the brain. <i>NeuroImage</i> , <b>2013</b> , 71, 233-47	7.9	16
76	Connectivity of the human insula: A cortico-cortical evoked potential (CCEP) study. <i>Cortex</i> , <b>2019</b> , 120, 419-442	3.8	15
75	Sulcal set optimization for cortical surface registration. <i>NeuroImage</i> , <b>2010</b> , 50, 950-9	7.9	15
74	Temporal Non-Local Means Filtering Reveals Real-Time Whole-Brain Cortical Interactions in Resting fMRI. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158504	3.7	15
73	A novel ANCOVA design for analysis of MEG data with application to a visual attention study. <i>NeuroImage</i> , <b>2009</b> , 44, 164-74	7.9	14
72	GEODESIC CURVATURE FLOW ON SURFACES FOR AUTOMATIC SULCAL DELINEATION <b>2012</b> , 2012, 430-	-433	13
71	A comparison of seven different DTI-derived estimates of corticospinal tract structural characteristics in chronic stroke survivors. <i>Journal of Neuroscience Methods</i> , <b>2018</b> , 304, 66-75	3	11
70	Anemia predicts lower white matter volume and cognitive performance in sickle and non-sickle cell anemia syndrome. <i>American Journal of Hematology</i> , <b>2019</b> , 94, 1055-1065	7.1	11
69	Detection of event-related modulations of oscillatory brain activity with multivariate statistical analysis of MEG data. <i>Human Brain Mapping</i> , <b>2009</b> , 30, 1922-34	5.9	11
68	Childhood EEG frontal alpha power as a predictor of adolescent antisocial behavior: a twin heritability study. <i>Biological Psychology</i> , <b>2015</b> , 105, 72-6	3.2	10
67	Automated MRI Volumetric Analysis in Patients with Rasmussen Syndrome. <i>American Journal of Neuroradiology</i> , <b>2016</b> , 37, 2348-2355	4.4	9
66	A framework for registration, statistical characterization and classification of cortically constrained functional imaging data. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 19, 186-96	0.9	9
65	Correcting Susceptibility-Induced Distortion in Diffusion-Weighted MRI using Constrained Nonrigid Registration <b>2012</b> , 2012,		9
64	Integrated open-source software for multiscale electrophysiology. <i>Scientific Data</i> , <b>2019</b> , 6, 231	8.2	8
63	To cut or not to cut? Assessing the modular structure of brain networks. <i>NeuroImage</i> , <b>2014</b> , 91, 99-108	7.9	8
62	PET IMAGE RECONSTRUCTION USING ANATOMICAL INFORMATION THROUGH MUTUAL INFORMATION BASED PRIORS: A SCALE SPACE APPROACH <b>2007</b> ,		8
61	Learning to define an electrical biomarker of the epileptogenic zone. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 429-441	5.9	8

60	Canonical Granger causality between regions of interest. NeuroImage, 2013, 83, 189-99	7.9	7	
59	Mutual information based non-rigidmouse registration using a scale-space approach 2008,		7	
58	Functional Imaging of Brain Activity and Connectivity with MEG. <i>Understanding Complex Systems</i> , <b>2007</b> , 201-219	0.4	7	
57	Temporal non-local means filtering for studies of intrinsic brain connectivity from individual resting fMRI. <i>Medical Image Analysis</i> , <b>2020</b> , 61, 101635	15.4	7	
56	GLOBAL PDF-BASED TEMPORAL NON-LOCAL MEANS FILTERING REVEALS INDIVIDUAL DIFFERENCES IN BRAIN CONNECTIVITY <b>2018</b> , 2018, 15-19	1.5	6	
55	Kernel Methods for Riemannian Analysis of Robust Descriptors of the Cerebral Cortex. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 10265, 28-40	0.9	6	
54	CORRECTING INHOMOGENEITY-INDUCED DISTORTION IN FMRI USING NON-RIGID REGISTRATION <b>2015</b> , 2015, 1364-1367	1.5	5	
53	Dual-time-point Patlak estimation from list mode PET data 2012,		5	
52	Computer Simulated Studies of Tomographic Reconstruction with an Electronically Collimated Camera for SPECT. <i>IEEE Transactions on Nuclear Science</i> , <b>1987</b> , 34, 369-373	1.7	5	
51	Heterotopia or overlaying cortex: What about in-between?. <i>Epilepsy &amp; Behavior Case Reports</i> , <b>2019</b> , 11, 4-9	1.2	5	
50	The FAST graph: A novel framework for the anatomically-guided visualization and analysis of cortico-cortical evoked potentials. <i>Epilepsy Research</i> , <b>2020</b> , 161, 106264	3	4	
49	Statistically optimal graph partition method based on modularity <b>2010</b> ,		4	
48	Estimation of gap data using bow-tie filters for 3D time-of-flight PET <b>2010</b> ,		4	
47	Robust Identification of Partial-Correlation Based Networks with Applications to Cortical Thickness Data <b>2012</b> , 2012, 1551-1554	1.5	4	
46	PET image reconstruction incorporating anatomical information using segmented regression <b>1997</b> , 3034, 381		4	
45	A FINITE ELEMENT METHOD FOR ELASTIC PARAMETERIZATION AND ALIGNMENT OF CORTICAL SURFACES USING SULCAL CONSTRAINTS <b>2007</b> ,		4	
44	Age differences in the functional architecture of the human brain Cerebral Cortex, 2022,	5.1	4	
43	Scalable and Robust Tensor Decomposition of Spontaneous Stereotactic EEG Data. <i>IEEE</i> Transactions on Biomedical Engineering, <b>2019</b> , 66, 1549-1558	5	4	

42	Whole-body parametric PET imaging will replace conventional image-derived PET metrics in clinical oncology. <i>Medical Physics</i> , <b>2018</b> , 45, 5355-5358	4.4	4
41	BRAIN LESION DETECTION USING A ROBUST VARIATIONAL AUTOENCODER AND TRANSFER LEARNING <b>2020</b> , 2020, 786-790	1.5	3
40	EEG for Current With Two-Dimensional Support. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 2101-2108	5	3
39	Statistically optimal modular partitioning of directed graphs 2010,		3
38	Partitioning directed graphs based on modularity and information flow 2011,		3
37	Assessing statistical significance when partitioning large-scale brain networks 2012,		3
36	Riemannian Statistical Analysis of Cortical Geometry with Robustness to Partial Homology and Misalignment. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 9900, 237-246	0.9	3
35	Non-Rigid Image Registration Using Gaussian Mixture Models. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 7359, 286-295	0.9	3
34	A NETWORK-BASED APPROACH TO STUDY OF ADHD USING TENSOR DECOMPOSITION OF RESTING STATE FMRI DATA <b>2020</b> , 2020, 544-548	1.5	3
33	Validation of semi-automated anatomically labeled SEEG contacts in a brain atlas for mapping connectivity in focal epilepsy. <i>Epilepsia Open</i> , <b>2021</b> , 6, 493-503	4	3
32	Spatially varying regularization for motion compensated PET reconstruction 2012,		2
31	Small animal PET with a clinical PET/CT: Optimizing image quality with MAP reconstruction and super-resolution <b>2012</b> ,		2
30	BrainSync: An Orthogonal Transformation for Synchronization of fMRI Data Across Subjects. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 10433, 486-494	0.9	2
29	Functional architecture of the aging brain		2
28	Robust brain network identification from multi-subject asynchronous fMRI data. <i>NeuroImage</i> , <b>2021</b> , 227, 117615	7.9	2
27	2020,		1
26	Parameter selection for optimized non-local means filtering of task fMRI 2017,		1
25	New linear transforms for data on a Fourier 2-sphere with application to diffusion MRI <b>2012</b> ,		1

24	Viability of sharing MEG data using minimum-norm imaging <b>2011</b> ,		1
23	Fast GPU-based time-of-flight MAP reconstruction with a factored system matrix <b>2010</b> ,		1
22	Controlling familywise error rate for matched subspace detection in dynamic FDG PET. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 1623-31	11.7	1
21	A nonlocal averaging technique for kinetic parameter estimation from dynamic PET data 2011,		1
20	Phase synchrony in multivariate Gaussian data with applications to cortical networks 2012,		1
19	Spatial distortion correction and crystal identification for position-sensitive avalanche photodiode-based PET scanners <b>2008</b> ,		1
18	FAST IMAGE RECONSTRUCTION METHODS FOR FULLY 3D MULTISPECTRAL OPTICAL BIOLUMINESCENCE TOMOGRAPHY <b>2007</b> ,		1
17	Registration of cortical surfaces using sulcal landmarks for group analysis of MEG data.  International Congress Series, 2007, 1300, 229-232		1
16	Exploring Anemiald Impact on Brain Microstructure, Volume, Functional Connectivity, Iron and Cognitive Performance. <i>Blood</i> , <b>2019</b> , 134, 3553-3553	2.2	1
15	A hybrid high-resolution anatomical MRI atlas with sub-parcellation of cortical gyri using resting fMRI		1
14	Predicting Cognitive Scores from Resting fMRI Data and Geometric Features of the Brain. <i>Proceedings of SPIE</i> , <b>2019</b> , 10949,	1.7	1
13	2019,		1
12	Region-optimized virtual (ROVir) coils: Localization and/or suppression of spatial regions using sensor-domain beamforming. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 197-212	4.4	1
11	Effective connectivity differs between focal cortical dysplasia types I and II. <i>Epilepsia</i> , <b>2021</b> , 62, 2753-27	'6⁄5 <sub>4</sub>	1
10	A hybrid high-resolution anatomical MRI atlas with sub-parcellation of cortical gyri using resting fMRI <i>Journal of Neuroscience Methods</i> , <b>2022</b> , 109566	3	1
9	Lower white matter volume in beta-thalassemia associated with anemia and cognitive performance. <i>American Journal of Hematology</i> , <b>2020</b> , 95, E144-E146	7.1	Ο
8	A robust variational autoencoder using beta divergence. <i>Knowledge-Based Systems</i> , <b>2022</b> , 238, 107886	7.3	0
7	A Matched Filter Decomposition of fMRI into Resting and Task Components. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11766, 673-681	0.9	Ο

6	Hemoglobin Level and Platelet Size Predicts Grey and White Matter Volume Loss Measured By Tensor Based Morphology in Sickle Cell Disease. <i>Blood</i> , <b>2016</b> , 128, 2481-2481	2.2
5	Regional Susceptibility to Chronic Anemia in WM Microstructure Using Diffusion Tensor Imaging. <i>Blood</i> , <b>2016</b> , 128, 3640-3640	2.2
4	Image reconstruction for PET and SPECT. Imaging in Medical Diagnosis and Therapy, 2017, 235-257	
3	rfDemons: Resting fMRI-based Cortical Surface Registration using the BrainSync Transform. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11072, 198-205	0.9
2	Autoregression and Structured Low-Rank Modeling of Sinogram Neighborhoods <i>IEEE Transactions on Computational Imaging</i> , <b>2021</b> , 7, 1044-1054	4.5
1	Neuroanatomic Markers of Posttraumatic Epilepsy Based on MR Imaging and Machine Learning  American Journal of Neuroradiology, <b>2022</b> , 43, 347-353	4.4