Dimitri Van De Ville

List of Publications by Year
in descending order

389	15,555	34016	30848
papers	citations	52 h-index	102 g-index

427	427	427	14101
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The dynamic functional connectome: State-of-the-art and perspectives. NeuroImage, 2017, 160, 41-54.	2.1	1,061
2	BOLD correlates of EEG topography reveal rapid resting-state network dynamics. NeuroImage, 2010, 52, 1162-1170.	2.1	705
3	On spurious and real fluctuations of dynamic functional connectivity during rest. NeuroImage, 2015, 104, 430-436.	2.1	670
4	EEG microstate sequences in healthy humans at rest reveal scale-free dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18179-18184.	3.3	486
5	Principal components of functional connectivity: A new approach to study dynamic brain connectivity during rest. NeuroImage, 2013, 83, 937-950.	2.1	367
6	Complex wavelets for extended depth-of-field: A new method for the fusion of multichannel microscopy images. Microscopy Research and Technique, 2004, 65, 33-42.	1.2	332
7	Transient brain activity disentangles fMRI resting-state dynamics in terms of spatially and temporally overlapping networks. Nature Communications, 2015, 6, 7751.	5.8	307
8	Electroencephalographic Resting-State Networks: Source Localization of Microstates. Brain Connectivity, 2017, 7, 671-682.	0.8	277
9	Decoding brain states from fMRI connectivity graphs. NeuroImage, 2011, 56, 616-626.	2.1	263
10	White-Matter Connectivity between Face-Responsive Regions in the Human Brain. Cerebral Cortex, 2012, 22, 1564-1576.	1.6	243
11	Noise reduction by fuzzy image filtering. IEEE Transactions on Fuzzy Systems, 2003, 11, 429-436.	6.5	221
12	Decoding of Emotional Information in Voice-Sensitive Cortices. Current Biology, 2009, 19, 1028-1033.	1.8	212
13	Resting brain dynamics at different timescales capture distinct aspects of human behavior. Nature Communications, 2019, 10, 2317.	5.8	208
14	SURE-Based Non-Local Means. IEEE Signal Processing Letters, 2009, 16, 973-976.	2.1	206
15	Tight Wavelet Frames on Multislice Graphs. IEEE Transactions on Signal Processing, 2013, 61, 3357-3367.	3.2	205
16	Meta-analysis of real-time fMRI neurofeedback studies using individual participant data: How is brain regulation mediated?. NeuroImage, 2016, 124, 806-812.	2.1	204
17	Three-dimensional solid texture analysis in biomedical imaging: Review and opportunities. Medical Image Analysis, 2014, 18, 176-196.	7.0	188
18	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	3.7	188

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19	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis. Nature Medicine, 2022, 28, 260-271.	15.2	174
20	A Graph Signal Processing Perspective on Functional Brain Imaging. Proceedings of the IEEE, 2018, 106, 868-885.	16.4	172
21	Multiresolution Monogenic Signal Analysis Using the Rieszâ€“Laplace Wavelet Transform. IEEE Transactions on Image Processing, 2009, 18, 2402-2418.	6.0	168
22	Decoupling of brain function from structure reveals regional behavioral specialization in humans. Nature Communications, 2019, 10, 4747.	5.8	163
23	Machine Learning with Brain Graphs: Predictive Modeling Approaches for Functional Imaging in Systems Neuroscience. IEEE Signal Processing Magazine, 2013, 30, 58-70.	4.6	135
24	Connectivity-based neurofeedback: Dynamic causal modeling for real-time fMRI. NeuroImage, 2013, 81, 422-430.	2.1	135
25	Model-Based 2.5-D Deconvolution for Extended Depth of Field in Brightfield Microscopy. IEEE Transactions on Image Processing, 2008, 17, 1144-1153.	6.0	130
26	Musical training intensity yields opposite effects on grey matter density in cognitive versus sensorimotor networks. Brain Structure and Function, 2014, 219, 353-366.	1.2	128
27	Impact of transient emotions on functional connectivity during subsequent resting state: A wavelet correlation approach. NeuroImage, 2011, 54, 2481-2491.	2.1	124
28	A Signal Processing Approach to Generalized 1-D Total Variation. IEEE Transactions on Signal Processing, 2011, 59, 5265-5274.	3.2	116
29	Total activation: fMRI deconvolution through spatio-temporal regularization. NeuroImage, 2013, 73, 121-134.	2.1	114
30	Learning Control Over Emotion Networks Through Connectivity-Based Neurofeedback. Cerebral Cortex, 2017, 27, bhv311.	1.6	108
31	Anatomically-adapted graph wavelets for improved group-level fMRI activation mapping. NeuroImage, 2015, 123, 185-199.	2.1	99
32	Isotropic polyharmonic B-splines: scaling functions and wavelets. IEEE Transactions on Image Processing, 2005, 14, 1798-1813.	6.0	95
33	Music in premature infants enhances high-level cognitive brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12103-12108.	3.3	94
34	Disentangling dynamic networks: Separated and joint expressions of functional connectivity patterns in time. Human Brain Mapping, 2014, 35, 5984-5995.	1.9	93
35	Wavelet Steerability and the Higher-Order Riesz Transform. IEEE Transactions on Image Processing, 2010, 19, 636-652.	6.0	89
36	Classifying minimally disabled multiple sclerosis patients from resting state functional connectivity. NeuroImage, 2012, 62, 2021-2033.	2.1	87

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37	Spread Spectrum Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 586-598.	5.4	86
38	Degree of Musical Expertise Modulates Higher Order Brain Functioning. Cerebral Cortex, 2013, 23, 2213-2224.	1.6	86
39	Nonlocal Means With Dimensionality Reduction and SURE-Based Parameter Selection. IEEE Transactions on Image Processing, 2011, 20, 2683-2690.	6.0	84
40	Altered cerebrovascular reactivity velocity in mild cognitive impairment and Alzheimer's disease. Neurobiology of Aging, 2015, 36, 33-41.	1.5	84
41	A maximum-likelihood formalism for sub-resolution axial localization of fluorescent nanoparticles. Optics Express, 2005, 13, 10503.	1.7	81
42	Steerable Pyramids and Tight Wavelet Frames in $L_{2}({BBR}^{d})$. IEEE Transactions on Image Processing, 2011, 20, 2705-2721.	6.0	79
43	Dynamic reconfiguration of human brain functional networks through neurofeedback. NeuroImage, 2013, 81, 243-252.	2.1	79
44	Fluctuations of spontaneous EEG topographies predict disease state in relapsing-remitting multiple sclerosis. NeuroImage: Clinical, 2016, 12, 466-477.	1.4	78
45	Near-Affine-Invariant Texture Learning for Lung Tissue Analysis Using Isotropic Wavelet Frames. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 665-675.	3.6	74
46	Hex-Splines: A Novel Spline Family for Hexagonal Lattices. IEEE Transactions on Image Processing, 2004, 13, 758-772.	6.0	69
47	Integrated wavelet processing and spatial statistical testing of fMRI data. NeuroImage, 2004, 23, 1472-1485.	2.1	67
48	Determining significant connectivity by 4D spatiotemporal wavelet packet resampling of functional neuroimaging data. NeuroImage, 2006, 31, 1142-1155.	2.1	65
49	Altered cortical and subcortical local coherence in obstructive sleep apnea: a functional magnetic resonance imaging study. Journal of Sleep Research, 2013, 22, 337-347.	1.7	65
50	Generic acquisition protocol for quantitative MRI of the spinal cord. Nature Protocols, 2021, 16, 4611-4632.	5.5	65
51	Schizophrenia patients and 22q11.2 deletion syndrome adolescents at risk express the same deviant patterns of resting state EEG microstates: A candidate endophenotype of schizophrenia. Schizophrenia Research: Cognition, 2015, 2, 159-165.	0.7	64
52	Tapping into Multi-Faceted Human Behavior and Psychopathology Using fMRI Brain Dynamics. Trends in Neurosciences, 2020, 43, 667-680.	4.2	63
53	Disentangling resting-state BOLD variability and PCC functional connectivity in 22q11.2 deletion syndrome. NeuroImage, 2017, 149, 85-97.	2.1	62
54	Continuous vs. intermittent neurofeedback to regulate auditory cortex activity of tinnitus patients using real-time fMRI - A pilot study. NeuroImage: Clinical, 2017, 14, 97-104.	1.4	62

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55	Sparsity Averaging for Compressive Imaging. IEEE Signal Processing Letters, 2013, 20, 591-594.	2.1	60
56	Practical Box Splines for Reconstruction on the Body Centered Cubic Lattice. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 313-328.	2.9	59
57	Dynamics of large-scale fMRI networks: Deconstruct brain activity to build better models of brain function. Current Opinion in Biomedical Engineering, 2017, 3, 28-36.	1.8	58
58	OpenNFT: An open-source Python/Matlab framework for real-time fMRI neurofeedback training based on activity, connectivity and multivariate pattern analysis. NeuroImage, 2017, 156, 489-503.	2.1	57
59	Activelets: Wavelets for sparse representation of hemodynamic responses. Signal Processing, 2011, 91, 2810-2821.	2.1	56
60	Dynamic PET Reconstruction Using Wavelet Regularization With Adapted Basis Functions. IEEE Transactions on Medical Imaging, 2008, 27, 943-959.	5.4	54
61	Resting-state networks in adolescents with 22q11.2 deletion syndrome: Associations with prodromal symptoms and executive functions. Schizophrenia Research, 2012, 139, 33-39.	1.1	54
62	Dynamic mode decomposition of resting-state and task fMRI. NeuroImage, 2019, 194, 42-54.	2.1	54
63	When makes you unique: Temporality of the human brain fingerprint. Science Advances, 2021, 7, eabj0751.	4.7	54
64	Multiscale analysis of geomorphological and geological features in high resolution digital elevation models using the wavelet transform. Geomorphology, 2012, 138, 352-363.	1.1	53
65	Prediction of long-term memory scores in MCI based on resting-state fMRI. NeuroImage: Clinical, 2016, 12, 785-795.	1.4	53
66	Music processing in preterm and full-term newborns: A psychophysiological interaction (PPI) approach in neonatal fMRI. NeuroImage, 2019, 185, 857-864.	2.1	53
67	Revisiting correlation-based functional connectivity and its relationship with structural connectivity. Network Neuroscience, 2020, 4, 1235-1251.	1.4	53
68	Sparse regularization for fiber ODF reconstruction: From the suboptimality of and priors to. Medical Image Analysis, 2014, 18, 820-833.	7.0	49
69	Triple Network Model Dynamically Revisited: Lower Salience Network State Switching in Pre-psychosis. Frontiers in Physiology, 2020, 11, 66.	1.3	49
70	Disentangling the origins of confidence in speeded perceptual judgments through multimodal imaging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8382-8390.	3.3	49
71	Rotationâ€“Covariant Texture Learning Using Steerable Riesz Wavelets. IEEE Transactions on Image Processing, 2014, 23, 898-908.	6.0	48
72	Dynamic reorganization of intrinsic functional networks in the mouse brain. NeuroImage, 2017, 152, 497-508.	2.1	48

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73	Spatially-Resolved Eigenmode Decomposition of Red Blood Cells Membrane Fluctuations Questions the Role of ATP in Flickering. PLoS ONE, 2012, 7, e40667.	1.1	48
74	An orthogonal family of quincunx wavelets with continuously adjustable order. IEEE Transactions on Image Processing, 2005, 14, 499-510.	6.0	47
75	EEG source imaging of brain states using spatiotemporal regression. NeuroImage, 2014, 96, 106-116.	2.1	47
76	Structural and functional connectivity in the default mode network in 22q11.2 deletion syndrome. Journal of Neurodevelopmental Disorders, 2015, 7, 23.	1.5	47
77	Outcome Prediction of Consciousness Disorders in the Acute Stage Based on a Complementary Motor Behavioural Tool. PLoS ONE, 2016, 11, e0156882.	1.1	47
78	Self-regulation of inter-hemispheric visual cortex balance through real-time fMRI neurofeedback training. NeuroImage, 2014, 100, 1-14.	2.1	45
79	Memory performance-related dynamic brain connectivity indicates pathological burden and genetic risk for Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2017, 9, 24.	3.0	43
80	The role of the subgenual anterior cingulate cortex in dorsomedial prefrontalâ€“amygdala neural circuitry during positiveâ€social emotion regulation. Human Brain Mapping, 2020, 41, 3100-3118.	1.9	43
81	Acute caffeine administration impact on working memory-related brain activation and functional connectivity in the elderly: A BOLD and perfusion MRI study. Neuroscience, 2013, 250, 364-371.	1.1	42
82	Signal-Adapted Tight Frames on Graphs. IEEE Transactions on Signal Processing, 2016, 64, 6017-6029.	3.2	42
83	Brain dynamics in ASD during movieâ€watching show idiosyncratic functional integration and segregation. Human Brain Mapping, 2018, 39, 2391-2404.	1.9	42
84	Identifying motor functional neurological disorder using resting-state functional connectivity. NeuroImage: Clinical, 2018, 17, 163-168.	1.4	42
85	Image Scrambling Without Bandwidth Expansion. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 892-897.	5.6	41
86	Discriminating among degenerative parkinsonisms using advanced 123 I-ioflupane SPECT analyses. NeuroImage: Clinical, 2016, 12, 234-240.	1.4	41
87	Exploring MEG brain fingerprints: Evaluation, pitfalls, and interpretations. NeuroImage, 2021, 240, 118331.	2.1	41
88	Comparison of anterior cingulate vs. insular cortex as targets for real-time fMRI regulation during pain stimulation. Frontiers in Behavioral Neuroscience, 2014, 8, 350.	1.0	40
89	Assessing the clinical outcome of Vim radiosurgery with voxel-based morphometry: visual areas are linked with tremor arrest!. Acta Neurochirurgica, 2017, 159, 2139-2144.	0.9	40
90	Clinical response to Vimâ€™s thalamic stereotactic radiosurgery for essential tremor is associated with distinctive functional connectivity patterns. Acta Neurochirurgica, 2018, 160, 611-624.	0.9	40

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91	Brain imaging of locomotion in neurological conditions. Neurophysiologie Clinique, 2018, 48, 337-359.	1.0	40
92	Multivariate Pattern Recognition for Diagnosis and Prognosis in Clinical Neuroimaging: State of the Art, Current Challenges and Future Trends. Brain Topography, 2014, 27, 329-337.	0.8	39
93	Laser Doppler imaging for intraoperative human brain mapping. NeuroImage, 2009, 44, 1284-1289.	2.1	38
94	Dynamic Functional Connectivity of Resting-State Spinal Cord fMRI Reveals Fine-Grained Intrinsic Architecture. Neuron, 2020, 108, 424-435.e4.	3.8	38
95	WSPM: Wavelet-based statistical parametric mapping. NeuroImage, 2007, 37, 1205-1217.	2.1	37
96	Triplet Imaging of Oxygen Consumption during the Contraction of a Single Smooth Muscle Cell (A7r5). Biophysical Journal, 2010, 98, 339-349.	0.2	37
97	Brain structure-function coupling provides signatures for task decoding and individual fingerprinting. NeuroImage, 2022, 250, 118970.	2.1	37
98	BSLIM: Spectral Localization by Imaging With Explicit B_{0} Field Inhomogeneity Compensation. IEEE Transactions on Medical Imaging, 2007, 26, 990-1000.	5.4	36
99	Adolescent resting state networks and their associations to schizotypal trait expression. Frontiers in Systems Neuroscience, 2010, 4, .	1.2	36
100	A new method to measure local oxygen consumption in human skeletal muscle during dynamic exercise using near-infrared spectroscopy. Physiological Measurement, 2010, 31, 1257-1269.	1.2	36
101	Focal versus distributed temporal cortex activity for speech sound category assignment. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1299-E1308.	3.3	36
102	TbCAPs: A toolbox for co-activation pattern analysis. NeuroImage, 2020, 211, 116621.	2.1	36
103	Reward biases spontaneous neural reactivation during sleep. Nature Communications, 2021, 12, 4162.	5.8	36
104	Sympathetic activity and early mobilization in patients in intensive and intermediate care with severe brain injuries: a preliminary prospective randomized study. BMC Neurology, 2016, 16, 169.	0.8	35
105	EEG topographies provide subject-specific correlates of motor control. Scientific Reports, 2017, 7, 13229.	1.6	35
106	Alpha Oscillations Reduce Temporal Long-Range Dependence in Spontaneous Human Brain Activity. Journal of Neuroscience, 2018, 38, 755-764.	1.7	35
107	Large-Scale Brain Network Dynamics Provide a Measure of Psychosis and Anxiety in 22q11.2 Deletion Syndrome. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 881-892.	1.1	35
108	Classification of degenerative parkinsonism subtypes by support-vector-machine analysis and striatal 123I-FP-CIT indices. Journal of Neurology, 2019, 266, 1771-1781.	1.8	35

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109	Functional connectivity underlying cognitive and psychiatric symptoms in post-COVID-19 syndrome: is anosognosia a key determinant?. Brain Communications, 2022, 4, fcac057.	1.5	35
110	Mapping interictal epileptic discharges using mutual information between concurrent EEG and fMRI. NeuroImage, 2013, 68, 248-262.	2.1	34
111	Identifying 22q11.2 Deletion Syndrome and Psychosis Using Resting-State Connectivity Patterns. Brain Topography, 2014, 27, 808-821.	0.8	34
112	Complex Wavelet Bases, Steerability, and the Marr-Like Pyramid. IEEE Transactions on Image Processing, 2008, 17, 2063-2080.	6.0	33
113	Active pain coping is associated with the response in real-time fMRI neurofeedback during pain. Brain Imaging and Behavior, 2017, 11, 712-721.	1.1	33
114	Efficient volume rendering on the body centered cubic lattice using box splines. Computers and Graphics, 2010, 34, 409-423.	1.4	32
115	Dynamics of functional connectivity at high spatial resolution reveal long-range interactions and fine-scale organization. Scientific Reports, 2017, 7, 12773.	1.6	32
116	Interactions Between Large-Scale Functional Brain Networks are Captured by Sparse Coupled HMMs. IEEE Transactions on Medical Imaging, 2018, 37, 230-240.	5.4	32
117	Wavelet-based multi-resolution statistics for optical imaging signals: Application to automated detection of odour activated glomeruli in the mouse olfactory bulb. NeuroImage, 2007, 34, 1020-1035.	2.1	31
118	Shoulder Apprehension Impacts Large-Scale Functional Brain Networks. American Journal of Neuroradiology, 2014, 35, 691-697.	1.2	31
119	Long-range dependencies make the differenceâ€"Comment on â€œA stochastic model for EEG microstate sequence analysisâ€• NeuroImage, 2015, 117, 449-455.	2.1	31
120	A multimodal approach to capture post-stroke temporal dynamics of recovery. Journal of Neural Engineering, 2020, 17, 045002.	1.8	31
121	Structural mediation of human brain activity revealed by white-matter interpolation of fMRI. NeuroImage, 2020, 213, 116718.	2.1	31
122	Fronto-limbic neural variability as a transdiagnostic correlate of emotion dysregulation. Translational Psychiatry, 2021, 11, 545.	2.4	31
123	Surfing the brain. IEEE Engineering in Medicine and Biology Magazine, 2006, 25, 65-78.	1.1	30
124	Nonideal Sampling and Regularization Theory. IEEE Transactions on Signal Processing, 2008, 56, 1055-1070.	3.2	30
125	Multicontrast connectometry: A new tool to assess cerebellum alterations in early relapsingâ€remitting multiple sclerosis. Human Brain Mapping, 2015, 36, 1609-1619.	1.9	30
126	Robust Recovery of Temporal Overlap Between Network Activity Using Transient-Informed Spatio-Temporal Regression. IEEE Transactions on Medical Imaging, 2019, 38, 291-302.	5.4	30

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127	Lasting Impact of Regret and Gratification on Resting Brain Activity and Its Relation to Depressive Traits. Journal of Neuroscience, 2014, 34, 7825-7835.	1.7	29
128	Robot-induced hallucinations in Parkinsonâ€™s disease depend on altered sensorimotor processing in fronto-temporal network. Science Translational Medicine, 2021, 13, .	5.8	29
129	GABA and glutamate moderate beta-amyloid related functional connectivity in cognitively unimpaired old-aged adults. NeuroImage: Clinical, 2019, 22, 101776.	1.4	28
130	Brain networks for engaging oneself in positive-social emotion regulation. NeuroImage, 2019, 189, 106-115.	2.1	28
131	Agito ergo sum: Correlates of spatio-temporal motion characteristics during fMRI. NeuroImage, 2020, 209, 116433.	2.1	28
132	Train the brain with music (TBM): brain plasticity and cognitive benefits induced by musical training in elderly people in Germany and Switzerland, a study protocol for an RCT comparing musical instrumental practice to sensitization to music. BMC Geriatrics, 2020, 20, 418.	1.1	28
133	Temporal complexity of fMRI is reproducible and correlates with higher order cognition. NeuroImage, 2021, 230, 117760.	2.1	28
134	Quasi-Interpolating Spline Models for Hexagonally-Sampled Data. IEEE Transactions on Image Processing, 2007, 16, 1195-1206.	6.0	27
135	Recovery of the default mode network after demanding neurofeedback training occurs in spatio-temporally segregated subnetworks. NeuroImage, 2012, 63, 1775-1781.	2.1	27
136	Improved statistical evaluation of group differences in connectomes by screeningâ€“filtering strategy with application to study maturation of brain connections between childhood and adolescence. NeuroImage, 2015, 108, 251-264.	2.1	27
137	A Spectral Method for Generating Surrogate Graph Signals. IEEE Signal Processing Letters, 2016, 23, 1275-1278.	2.1	27
138	Can we predict realâ€time <scp>fMRI</scp> neurofeedback learning success from pretraining brain activity?. Human Brain Mapping, 2020, 41, 3839-3854.	1.9	27
139	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. Scientific Data, 2021, 8, 219.	2.4	27
140	Multiscale Lung Texture Signature Learning Using the Riesz Transform. Lecture Notes in Computer Science, 2012, 15, 517-524.	1.0	26
141	Optical projection tomography for rapid whole mouse brain imaging. Biomedical Optics Express, 2017, 8, 5637.	1.5	26
142	The impact of denoising on independent component analysis of functional magnetic resonance imaging data. Journal of Neuroscience Methods, 2013, 213, 105-122.	1.3	25
143	Sensory-Evoked Intrinsic Imaging Signals in the Olfactory Bulb Are Independent of Neurovascular Coupling. Cell Reports, 2015, 12, 313-325.	2.9	25
144	Maintenance of Voluntary Self-regulation Learned through Real-Time fMRI Neurofeedback. Frontiers in Human Neuroscience, 2017, 11, 131.	1.0	25

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145	NREM sleep stages specifically alter dynamical integration of large-scale brain networks. IScience, 2021, 24, 101923.	1.9	25
146	Dynamics of amygdala connectivity in bipolar disorders: a longitudinal study across mood states. Neuropsychopharmacology, 2021, 46, 1693-1701.	2.8	25
147	Resting-State Brain Activity for Early Prediction Outcome in Postanoxic Patients in a Coma with Indeterminate Clinical Prognosis. American Journal of Neuroradiology, 2020, 41, 1022-1030.	1.2	25
148	On the multidimensional extension of the quincunx subsampling matrix. IEEE Signal Processing Letters, 2005, 12, 112-115.	2.1	24
149	Wavelet-regularized reconstruction for rapid MRI. , 2009, , .		24
150	Hippocampal volume predicts fluid intelligence in musically trained people. Hippocampus, 2013, 23, 552-558.	0.9	24
151	Right Brodmann area 18 predicts tremor arrest after Vim radiosurgery: a voxel-based morphometry study. Acta Neurochirurgica, 2018, 160, 603-609.	0.9	24
152	Interpreting null models of resting-state functional MRI dynamics: not throwing the model out with the hypothesis. NeuroImage, 2021, 243, 118518.	2.1	24
153	The Pairing of a Wavelet Basis With a Mildly Redundant Analysis via Subband Regression. IEEE Transactions on Image Processing, 2008, 17, 2040-2052.	6.0	23
154	Invariances, Laplacian-Like Wavelet Bases, and the Whitening of Fractal Processes. IEEE Transactions on Image Processing, 2009, 18, 689-702.	6.0	23
155	Data-Driven MRSI Spectral Localization Via Low-Rank Component Analysis. IEEE Transactions on Medical Imaging, 2013, 32, 1853-1863.	5.4	23
156	Reconstruction of Finite Rate of Innovation Signals with Model-Fitting Approach. IEEE Transactions on Signal Processing, 2015, 63, 6024-6036.	3.2	23
157	When Slepian Meets Fiedler: Putting a Focus on the Graph Spectrum. IEEE Signal Processing Letters, 2017, 24, 1001-1004.	2.1	23
158	Ventrolateral Motor Thalamus Abnormal Connectivity in Essential Tremor Before and After Thalamotomy: A Resting-State Functional Magnetic Resonance Imaging Study. World Neurosurgery, 2018, 113, e453-e464.	0.7	23
159	Fast highâ€resolution brain metabolite mapping on a clinical 3T MRI by accelerated Hâ€FIDâ€MRSI and lowâ€rank constrained reconstruction. Magnetic Resonance in Medicine, 2019, 81, 2841-2857.	1.9	23
160	Neural responses in autism during movie watching: Inter-individual response variability co-varies with symptomatology. NeuroImage, 2020, 216, 116571.	2.1	23
161	Mood disorders disrupt the functional dynamics, not spatial organization of brain resting state networks. NeuroImage: Clinical, 2021, 32, 102833.	1.4	23
162	Robust non-linear filtering for video processing. , 0, , .		22

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163	On the N-dimensional extension of the discrete prolate spheroidal window. IEEE Signal Processing Letters, 2002, 9, 89-91.	2.1	22
164	Functional imaging of rostrocaudal spinal activity during upper limb motor tasks. NeuroImage, 2019, 200, 590-600.	2.1	22
165	Predictors of real-time fMRI neurofeedback performance and improvement â€“ A machine learning mega-analysis. NeuroImage, 2021, 237, 118207.	2.1	22
166	Towards reliable spinal cord fMRI: Assessment of common imaging protocols. NeuroImage, 2022, 250, 118964.	2.1	22
167	Brain Perfusion Measurements Using Multidelay Arterial Spin-Labeling Are Systematically Biased by the Number of Delays. American Journal of Neuroradiology, 2018, 39, 1432-1438.	1.2	21
168	Identifying Network Correlates of Brain States Using Tensor Decompositions of Whole-Brain Dynamic Functional Connectivity. , 2013, , .		20
169	Neural Correlates of Clinical Scores in Patients with Anterior Shoulder Apprehension. Medicine and Science in Sports and Exercise, 2015, 47, 2612-2620.	0.2	20
170	Large-scale functional network reorganization in 22q11.2 deletion syndrome revealed by modularity analysis. Cortex, 2016, 82, 86-99.	1.1	20
171	High-Resolution fMRI of Auditory Cortical Map Changes in Unilateral Hearing Loss and Tinnitus. Brain Topography, 2017, 30, 685-697.	0.8	20
172	Psychotic symptoms influence the development of anterior cingulate BOLD variability in 22q11.2 deletion syndrome. Schizophrenia Research, 2018, 193, 319-328.	1.1	20
173	TASH: Toolbox for the Automated Segmentation of Heschlâ€™s gyrus. Scientific Reports, 2020, 10, 3887.	1.6	20
174	Brain functional connectivity dynamics at rest in the aftermath of affective and cognitive challenges. Human Brain Mapping, 2021, 42, 1054-1069.	1.9	20
175	Diabetes imagingâ€"quantitative assessment of islets of Langerhans distribution in murine pancreas using extended-focus optical coherence microscopy. Biomedical Optics Express, 2012, 3, 1365.	1.5	19
176	Magnetic resonance spectroscopic imaging at superresolution: Overview and perspectives. Journal of Magnetic Resonance, 2016, 263, 193-208.	1.2	19
177	Cortical Dysconnectivity Measured by Structural Covariance Is Associated With the Presence of Psychotic Symptoms in 22q11.2 Deletion Syndrome. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2018, 3, 433-442.	1.1	19
178	Normalization of aberrant pretherapeutic dynamic functional connectivity of extrastriate visual system in patients who underwent thalamotomy with stereotactic radiosurgery for essential tremor: a resting-state functional MRI study. Journal of Neurosurgery, 2020, 132, 1792-1801.	0.9	19
179	Least-squares spline resampling to a hexagonal lattice. Signal Processing: Image Communication, 2002, 17, 393-408.	1.8	18
180	Spontaneous NA⁺ transients in individual mitochondria of intact astrocytes. Glia, 2008, 56, 342-353.	2.5	18

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181	Spread spectrum for compressed sensing techniques in magnetic resonance imaging. , 2010, , .		18
182	Lung Texture Classification Using Locallyâ€“Oriented Riesz Components. Lecture Notes in Computer Science, 2011, , 231-238.	1.0	18
183	Pulsatile blood flow in human bone assessed by laser-Doppler flowmetry and the interpretation of photoplethysmographic signals. Physiological Measurement, 2013, 34, N25-N40.	1.2	18
184	Altered structural network architecture is predictive of the presence of psychotic symptoms in patients with 22q11.2 deletion syndrome. NeuroImage: Clinical, 2017, 16, 142-150.	1.4	18
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