

Dimitri Van De Ville

List of Publications by Citations

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368
papers

10,083
citations

48
h-index

89
g-index

427
ext. papers

13,352
ext. citations

5.8
avg, IF

6.82
L-index

#	Paper	IF	Citations
368	The dynamic functional connectome: State-of-the-art and perspectives. <i>NeuroImage</i> , 2017 , 160, 41-54	7.9	605
367	BOLD correlates of EEG topography reveal rapid resting-state network dynamics. <i>NeuroImage</i> , 2010 , 52, 1162-70	7.9	465
366	On spurious and real fluctuations of dynamic functional connectivity during rest. <i>NeuroImage</i> , 2015 , 104, 430-6	7.9	448
365	EEG microstate sequences in healthy humans at rest reveal scale-free dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18179-84	11.5	360
364	Principal components of functional connectivity: a new approach to study dynamic brain connectivity during rest. <i>NeuroImage</i> , 2013 , 83, 937-50	7.9	275
363	Complex wavelets for extended depth-of-field: a new method for the fusion of multichannel microscopy images. <i>Microscopy Research and Technique</i> , 2004 , 65, 33-42	2.8	265
362	Decoding brain states from fMRI connectivity graphs. <i>NeuroImage</i> , 2011 , 56, 616-26	7.9	222
361	White-matter connectivity between face-responsive regions in the human brain. <i>Cerebral Cortex</i> , 2012 , 22, 1564-76	5.1	200
360	Transient brain activity disentangles fMRI resting-state dynamics in terms of spatially and temporally overlapping networks. <i>Nature Communications</i> , 2015 , 6, 7751	17.4	193
359	Decoding of emotional information in voice-sensitive cortices. <i>Current Biology</i> , 2009 , 19, 1028-33	6.3	186
358	SURE-Based Non-Local Means. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 973-976	3.2	171
357	Noise reduction by fuzzy image filtering. <i>IEEE Transactions on Fuzzy Systems</i> , 2003 , 11, 429-436	8.3	148
356	Three-dimensional solid texture analysis in biomedical imaging: review and opportunities. <i>Medical Image Analysis</i> , 2014 , 18, 176-96	15.4	139
355	Meta-analysis of real-time fMRI neurofeedback studies using individual participant data: How is brain regulation mediated?. <i>NeuroImage</i> , 2016 , 124, 806-812	7.9	138
354	Multiresolution monogenic signal analysis using the Riesz-Laplace wavelet transform. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 2402-18	8.7	131
353	Tight Wavelet Frames on Multislice Graphs. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 3357-3367	4.8	129
352	Electroencephalographic Resting-State Networks: Source Localization of Microstates. <i>Brain Connectivity</i> , 2017 , 7, 671-682	2.7	113

351	Resting brain dynamics at different timescales capture distinct aspects of human behavior. <i>Nature Communications</i> , 2019 , 10, 2317	17.4	113
350	Connectivity-based neurofeedback: dynamic causal modeling for real-time fMRI. <i>NeuroImage</i> , 2013 , 81, 422-430	7.9	111
349	Machine Learning with Brain Graphs: Predictive Modeling Approaches for Functional Imaging in Systems Neuroscience. <i>IEEE Signal Processing Magazine</i> , 2013 , 30, 58-70	9.4	102
348	Model-based 2.5-d deconvolution for extended depth of field in brightfield microscopy. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 1144-53	8.7	102
347	Impact of transient emotions on functional connectivity during subsequent resting state: a wavelet correlation approach. <i>NeuroImage</i> , 2011 , 54, 2481-91	7.9	97
346	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). <i>Brain</i> , 2020 , 143, 1674-1685	11.2	93
345	Musical training intensity yields opposite effects on grey matter density in cognitive versus sensorimotor networks. <i>Brain Structure and Function</i> , 2014 , 219, 353-66	4	93
344	. <i>Proceedings of the IEEE</i> , 2018 , 106, 868-885	14.3	91
343	Learning Control Over Emotion Networks Through Connectivity-Based Neurofeedback. <i>Cerebral Cortex</i> , 2017 , 27, 1193-1202	5.1	81
342	A Signal Processing Approach to Generalized 1-D Total Variation. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 5265-5274	4.8	79
341	S143. NEURAL MECHANISMS OF ROBOT-INDUCED HALLUCINATIONS IN HEALTHY PARTICIPANTS AND SYMPTOMATIC HALLUCINATIONS OF NEUROLOGICAL AND PSYCHIATRIC ORIGIN. <i>Schizophrenia Bulletin</i> , 2020 , 46, S90-S91	1.3	78
340	Classifying minimally disabled multiple sclerosis patients from resting state functional connectivity. <i>NeuroImage</i> , 2012 , 62, 2021-33	7.9	75
339	Wavelet steerability and the higher-order Riesz transform. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 636-52	8.7	74
338	Disentangling dynamic networks: Separated and joint expressions of functional connectivity patterns in time. <i>Human Brain Mapping</i> , 2014 , 35, 5984-95	5.9	73
337	Isotropic polyharmonic B-splines: scaling functions and wavelets. <i>IEEE Transactions on Image Processing</i> , 2005 , 14, 1798-813	8.7	73
336	A maximum-likelihood formalism for sub-resolution axial localization of fluorescent nanoparticles. <i>Optics Express</i> , 2005 , 13, 10503-22	3.3	71
335	Total activation: fMRI deconvolution through spatio-temporal regularization. <i>NeuroImage</i> , 2013 , 73, 121-34	7.4	69
334	Nonlocal means with dimensionality reduction and SURE-based parameter selection. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 2683-90	8.7	69

333	Dynamic reconfiguration of human brain functional networks through neurofeedback. <i>NeuroImage</i> , 2013 , 81, 243-252	7.9	66
332	Steerable pyramids and tight wavelet frames in L2(R(d)). <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 2705-21	8.7	66
331	Spread spectrum magnetic resonance imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 586-98	11.7	65
330	Decoupling of brain function from structure reveals regional behavioral specialization in humans. <i>Nature Communications</i> , 2019 , 10, 4747	17.4	63
329	Anatomically-adapted graph wavelets for improved group-level fMRI activation mapping. <i>NeuroImage</i> , 2015 , 123, 185-99	7.9	61
328	Near-affine-invariant texture learning for lung tissue analysis using isotropic wavelet frames. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 665-75		59
327	Degree of musical expertise modulates higher order brain functioning. <i>Cerebral Cortex</i> , 2013 , 23, 2213-24	11.1	58
326	Altered cerebrovascular reactivity velocity in mild cognitive impairment and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015 , 36, 33-41	5.6	57
325	Altered cortical and subcortical local coherence in obstructive sleep apnea: a functional magnetic resonance imaging study. <i>Journal of Sleep Research</i> , 2013 , 22, 337-47	5.8	55
324	Hex-splines: a novel spline family for hexagonal lattices. <i>IEEE Transactions on Image Processing</i> , 2004 , 13, 758-72	8.7	55
323	Integrated wavelet processing and spatial statistical testing of fMRI data. <i>NeuroImage</i> , 2004 , 23, 1472-85	7.9	54
322	Practical box splines for reconstruction on the body centered cubic lattice. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2008 , 14, 313-28	4	51
321	Music in premature infants enhances high-level cognitive brain networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12103-12108	11.5	50
320	Determining significant connectivity by 4D spatiotemporal wavelet packet resampling of functional neuroimaging data. <i>NeuroImage</i> , 2006 , 31, 1142-55	7.9	47
319	Sparsity Averaging for Compressive Imaging. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 591-594	3.2	46
318	Dynamic PET reconstruction using wavelet regularization with adapted basis functions. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 943-59	11.7	46
317	Resting-state networks in adolescents with 22q11.2 deletion syndrome: associations with prodromal symptoms and executive functions. <i>Schizophrenia Research</i> , 2012 , 139, 33-9	3.6	44
316	Sparse regularization for fiber ODF reconstruction: from the suboptimality of ℓ_1 and ℓ_2 priors to ℓ_0 . <i>Medical Image Analysis</i> , 2014 , 18, 820-33	15.4	43

315	Rotation-Covariant Texture Learning Using Steerable Riesz Wavelets. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 898-908	8.7	42
314	Multiscale analysis of geomorphological and geological features in high resolution digital elevation models using the wavelet transform. <i>Geomorphology</i> , 2012 , 138, 352-363	4.3	42
313	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. <i>Schizophrenia Research: Cognition</i> , 2015 , 2, 159-165	2.8	41
312	Spatially-resolved eigenmode decomposition of red blood cells membrane fluctuations questions the role of ATP in flickering. <i>PLoS ONE</i> , 2012 , 7, e40667	3.7	41
311	Continuous vs. intermittent neurofeedback to regulate auditory cortex activity of tinnitus patients using real-time fMRI - A pilot study. <i>NeuroImage: Clinical</i> , 2017 , 14, 97-104	5.3	40
310	Self-regulation of inter-hemispheric visual cortex balance through real-time fMRI neurofeedback training. <i>NeuroImage</i> , 2014 , 100, 1-14	7.9	40
309	Dynamics of large-scale fMRI networks: Deconstruct brain activity to build better models of brain function. <i>Current Opinion in Biomedical Engineering</i> , 2017 , 3, 28-36	4.4	39
308	Activelets: Wavelets for sparse representation of hemodynamic responses. <i>Signal Processing</i> , 2011 , 91, 2810-2821	4.4	38
307	Fluctuations of spontaneous EEG topographies predict disease state in relapsing-remitting multiple sclerosis. <i>NeuroImage: Clinical</i> , 2016 , 12, 466-77	5.3	38
306	OpenNFT: An open-source Python/Matlab framework for real-time fMRI neurofeedback training based on activity, connectivity and multivariate pattern analysis. <i>NeuroImage</i> , 2017 , 156, 489-503	7.9	37
305	Dynamic reorganization of intrinsic functional networks in the mouse brain. <i>NeuroImage</i> , 2017 , 152, 497-508	7.9	37
304	Structural and functional connectivity in the default mode network in 22q11.2 deletion syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2015 , 7, 23	4.6	37
303	Triplet imaging of oxygen consumption during the contraction of a single smooth muscle cell (A7r5). <i>Biophysical Journal</i> , 2010 , 98, 339-49	2.9	34
302	Music processing in preterm and full-term newborns: A psychophysiological interaction (PPI) approach in neonatal fMRI. <i>NeuroImage</i> , 2019 , 185, 857-864	7.9	34
301	Disentangling resting-state BOLD variability and PCC functional connectivity in 22q11.2 deletion syndrome. <i>NeuroImage</i> , 2017 , 149, 85-97	7.9	33
300	Acute caffeine administration impact on working memory-related brain activation and functional connectivity in the elderly: a BOLD and perfusion MRI study. <i>Neuroscience</i> , 2013 , 250, 364-71	3.9	33
299	BSLIM: spectral localization by imaging with explicit B0 field inhomogeneity compensation. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 990-1000	11.7	33
298	Image scrambling without bandwidth expansion. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2004 , 14, 892-897	6.4	33

297	Outcome Prediction of Consciousness Disorders in the Acute Stage Based on a Complementary Motor Behavioural Tool. <i>PLoS ONE</i> , 2016 , 11, e0156882	3.7	33
296	An orthogonal family of quincunx wavelets with continuously adjustable order. <i>IEEE Transactions on Image Processing</i> , 2005 , 14, 499-510	8.7	32
295	Discriminating among degenerative parkinsonisms using advanced (123)I-ioflupane SPECT analyses. <i>NeuroImage: Clinical</i> , 2016 , 12, 234-40	5.3	32
294	Assessing the clinical outcome of Vim radiosurgery with voxel-based morphometry: visual areas are linked with tremor arrest!. <i>Acta Neurochirurgica</i> , 2017 , 159, 2139-2144	3	31
293	Prediction of long-term memory scores in MCI based on resting-state fMRI. <i>NeuroImage: Clinical</i> , 2016 , 12, 785-795	5.3	31
292	Multivariate pattern recognition for diagnosis and prognosis in clinical neuroimaging: state of the art, current challenges and future trends. <i>Brain Topography</i> , 2014 , 27, 329-37	4.3	31
291	WSPM: wavelet-based statistical parametric mapping. <i>NeuroImage</i> , 2007 , 37, 1205-17	7.9	31
290	Wavelet-based multi-resolution statistics for optical imaging signals: Application to automated detection of odour activated glomeruli in the mouse olfactory bulb. <i>NeuroImage</i> , 2007 , 34, 1020-35	7.9	30
289	EEG source imaging of brain states using spatiotemporal regression. <i>NeuroImage</i> , 2014 , 96, 106-16	7.9	29
288	Comparison of anterior cingulate vs. insular cortex as targets for real-time fMRI regulation during pain stimulation. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 350	3.5	29
287	Laser Doppler imaging for intraoperative human brain mapping. <i>NeuroImage</i> , 2009 , 44, 1284-9	7.9	28
286	Complex wavelet bases, steerability, and the marr-like pyramid. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 2063-80	8.7	28
285	Active pain coping is associated with the response in real-time fMRI neurofeedback during pain. <i>Brain Imaging and Behavior</i> , 2017 , 11, 712-721	4.1	27
284	Dynamics of functional connectivity at high spatial resolution reveal long-range interactions and fine-scale organization. <i>Scientific Reports</i> , 2017 , 7, 12773	4.9	27
283	Identifying 22q11.2 deletion syndrome and psychosis using resting-state connectivity patterns. <i>Brain Topography</i> , 2014 , 27, 808-21	4.3	27
282	Brain dynamics in ASD during movie-watching show idiosyncratic functional integration and segregation. <i>Human Brain Mapping</i> , 2018 , 39, 2391-2404	5.9	26
281	Focal versus distributed temporal cortex activity for speech sound category assignment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1299-E1308 ^{11.5}		26
280	Clinical response to Vim ^Q thalamic stereotactic radiosurgery for essential tremor is associated with distinctive functional connectivity patterns. <i>Acta Neurochirurgica</i> , 2018 , 160, 611-624	3	26

279	Memory performance-related dynamic brain connectivity indicates pathological burden and genetic risk for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2017 , 9, 24	9	26
278	A new method to measure local oxygen consumption in human skeletal muscle during dynamic exercise using near-infrared spectroscopy. <i>Physiological Measurement</i> , 2010 , 31, 1257-69	2.9	26
277	Brain imaging of locomotion in neurological conditions. <i>Neurophysiologie Clinique</i> , 2018 , 48, 337-359	2.7	26
276	Shoulder apprehension impacts large-scale functional brain networks. <i>American Journal of Neuroradiology</i> , 2014 , 35, 691-7	4.4	25
275	Mapping interictal epileptic discharges using mutual information between concurrent EEG and fMRI. <i>NeuroImage</i> , 2013 , 68, 248-62	7.9	25
274	Adolescent resting state networks and their associations with schizotypal trait expression. <i>Frontiers in Systems Neuroscience</i> , 2010 , 4,	3.5	25
273	Surfing the brain. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2006 , 25, 65-78		25
272	. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 6017-6029	4.8	25
271	EEG topographies provide subject-specific correlates of motor control. <i>Scientific Reports</i> , 2017 , 7, 13229	4.9	24
270	Identifying motor functional neurological disorder using resting-state functional connectivity. <i>NeuroImage: Clinical</i> , 2018 , 17, 163-168	5.3	24
269	Quasi-interpolating spline models for hexagonally-sampled data. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 1195-206	8.7	23
268	Classification of degenerative parkinsonism subtypes by support-vector-machine analysis and striatal I-FP-CIT indices. <i>Journal of Neurology</i> , 2019 , 266, 1771-1781	5.5	22
267	Multicontrast connectometry: a new tool to assess cerebellum alterations in early relapsing-remitting multiple sclerosis. <i>Human Brain Mapping</i> , 2015 , 36, 1609-19	5.9	22
266	Triple Network Model Dynamically Revisited: Lower Salience Network State Switching in Pre-psychosis. <i>Frontiers in Physiology</i> , 2020 , 11, 66	4.6	22
265	Disentangling the origins of confidence in speeded perceptual judgments through multimodal imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8382-8390	11.5	22
264	Recovery of the default mode network after demanding neurofeedback training occurs in spatio-temporally segregated subnetworks. <i>NeuroImage</i> , 2012 , 63, 1775-81	7.9	22
263	Efficient volume rendering on the body centered cubic lattice using box splines. <i>Computers and Graphics</i> , 2010 , 34, 409-423	1.8	22
262	Nonideal Sampling and Regularization Theory. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 1055-1070	4.8	22

261	Alpha Oscillations Reduce Temporal Long-Range Dependence in Spontaneous Human Brain Activity. <i>Journal of Neuroscience</i> , 2018 , 38, 755-764	6.6	22
260	Data-driven MRSI spectral localization via low-rank component analysis. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1853-63	11.7	21
259	Interactions Between Large-Scale Functional Brain Networks are Captured by Sparse Coupled HMMs. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 230-240	11.7	20
258	A Spectral Method for Generating Surrogate Graph Signals. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 1275-1278	5.1	20
257	Sensory-Evoked Intrinsic Imaging Signals in the Olfactory Bulb Are Independent of Neurovascular Coupling. <i>Cell Reports</i> , 2015 , 12, 313-25	10.6	19
256	Lasting impact of regret and gratification on resting brain activity and its relation to depressive traits. <i>Journal of Neuroscience</i> , 2014 , 34, 7825-35	6.6	19
255	The pairing of a wavelet basis with a mildly redundant analysis via subband regression. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 2040-52	8.7	19
254	Right Brodmann area 18 predicts tremor arrest after Vim radiosurgery: a voxel-based morphometry study. <i>Acta Neurochirurgica</i> , 2018 , 160, 603-609	3	19
253	Brain Perfusion Measurements Using Multidelay Arterial Spin-Labeling Are Systematically Biased by the Number of Delays. <i>American Journal of Neuroradiology</i> , 2018 , 39, 1432-1438	4.4	18
252	The impact of denoising on independent component analysis of functional magnetic resonance imaging data. <i>Journal of Neuroscience Methods</i> , 2013 , 213, 105-22	3	18
251	Optical projection tomography for rapid whole mouse brain imaging. <i>Biomedical Optics Express</i> , 2017 , 8, 5637-5650	3.5	18
250	Improved statistical evaluation of group differences in connectomes by screening-filtering strategy with application to study maturation of brain connections between childhood and adolescence. <i>NeuroImage</i> , 2015 , 108, 251-64	7.9	18
249	Diabetes imaging-quantitative assessment of islets of Langerhans distribution in murine pancreas using extended-focus optical coherence microscopy. <i>Biomedical Optics Express</i> , 2012 , 3, 1365-80	3.5	18
248	Spontaneous NA ⁺ transients in individual mitochondria of intact astrocytes. <i>Glia</i> , 2008 , 56, 342-53	9	18
247	Tapping into Multi-Faceted Human Behavior and Psychopathology Using fMRI Brain Dynamics. <i>Trends in Neurosciences</i> , 2020 , 43, 667-680	13.3	18
246	Dynamic mode decomposition of resting-state and task fMRI. <i>NeuroImage</i> , 2019 , 194, 42-54	7.9	17
245	. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 6024-6036	4.8	17
244	Multiscale lung texture signature learning using the Riesz transform. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 517-24	0.9	17

243	Hippocampal volume predicts fluid intelligence in musically trained people. <i>Hippocampus</i> , 2013 , 23, 552-561	8.5	17
242	Fast high-resolution brain metabolite mapping on a clinical 3T MRI by accelerated H-FID-MRSI and low-rank constrained reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2841-2857	4.4	17
241	Brain networks for engaging oneself in positive-social emotion regulation. <i>NeuroImage</i> , 2019 , 189, 106-115	11.5	17
240	Large-Scale Brain Network Dynamics Provide a Measure of Psychosis and Anxiety in 22q11.2 Deletion Syndrome. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019 , 4, 881-892	3.4	16
239	Long-range dependencies make the difference-Comment on "A stochastic model for EEG microstate sequence analysis". <i>NeuroImage</i> , 2015 , 117, 449-55	7.9	16
238	Revisiting correlation-based functional connectivity and its relationship with structural connectivity. <i>Network Neuroscience</i> , 2020 , 4, 1235-1251	5.6	16
237	Wavelet-regularized reconstruction for rapid MRI 2009 ,		16
236	On the multidimensional extension of the quincunx subsampling matrix. <i>IEEE Signal Processing Letters</i> , 2005 , 12, 112-115	3.2	16
235	On the N-dimensional extension of the discrete prolate spheroidal window. <i>IEEE Signal Processing Letters</i> , 2002 , 9, 89-91	3.2	16
234	Agito ergo sum: Correlates of spatio-temporal motion characteristics during fMRI. <i>NeuroImage</i> , 2020 , 209, 116433	7.9	16
233	High-Resolution fMRI of Auditory Cortical Map Changes in Unilateral Hearing Loss and Tinnitus. <i>Brain Topography</i> , 2017 , 30, 685-697	4.3	15
232	GABA and glutamate moderate beta-amyloid related functional connectivity in cognitively unimpaired old-aged adults. <i>NeuroImage: Clinical</i> , 2019 , 22, 101776	5.3	15
231	TbCAPs: A toolbox for co-activation pattern analysis. <i>NeuroImage</i> , 2020 , 211, 116621	7.9	15
230	The role of the subgenual anterior cingulate cortex in dorsomedial prefrontal-amygdala neural circuitry during positive-social emotion regulation. <i>Human Brain Mapping</i> , 2020 , 41, 3100-3118	5.9	15
229	Ventrolateral Motor Thalamus Abnormal Connectivity in Essential Tremor Before and After Thalamotomy: A Resting-State Functional Magnetic Resonance Imaging Study. <i>World Neurosurgery</i> , 2018 , 113, e453-e464	2.1	15
228	Sympathetic activity and early mobilization in patients in intensive and intermediate care with severe brain injuries: a preliminary prospective randomized study. <i>BMC Neurology</i> , 2016 , 16, 169	3.1	15
227	Altered structural network architecture is predictive of the presence of psychotic symptoms in patients with 22q11.2 deletion syndrome. <i>NeuroImage: Clinical</i> , 2017 , 16, 142-150	5.3	15
226	Maintenance of Voluntary Self-regulation Learned through Real-Time fMRI Neurofeedback. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 131	3.3	15

225	Invariances, Laplacian-like wavelet bases, and the whitening of fractal processes. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 689-702	8.7	15
224	Reversible, fast, and high-quality grid conversions. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 679-937	8.7	15
223	Robust Recovery of Temporal Overlap Between Network Activity Using Transient-Informed Spatio-Temporal Regression. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 291-302	11.7	15
222	. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 1001-1004	3.2	14
221	Magnetic resonance spectroscopic imaging at superresolution: Overview and perspectives. <i>Journal of Magnetic Resonance</i> , 2016 , 263, 193-208	3	14
220	Pulsatile blood flow in human bone assessed by laser-Doppler flowmetry and the interpretation of photoplethysmographic signals. <i>Physiological Measurement</i> , 2013 , 34, N25-40	2.9	14
219	Neural Correlates of Clinical Scores in Patients with Anterior Shoulder Apprehension. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 2612-20	1.2	14
218	Least-squares spline resampling to a hexagonal lattice. <i>Signal Processing: Image Communication</i> , 2002 , 17, 393-408	2.8	14
217	Robust non-linear filtering for video processing		14
216	Large-scale functional network reorganization in 22q11.2 deletion syndrome revealed by modularity analysis. <i>Cortex</i> , 2016 , 82, 86-99	3.8	13
215	Relative indexes of cutaneous blood perfusion measured by real-time laser Doppler imaging (LDI) in healthy volunteers. <i>Microvascular Research</i> , 2014 , 94, 1-6	3.7	13
214	Cigarette smoking leads to persistent and dose-dependent alterations of brain activity and connectivity in anterior insula and anterior cingulate. <i>Addiction Biology</i> , 2015 , 20, 1033-41	4.6	13
213	Sleep sharpens sensory stimulus coding in human visual cortex after fear conditioning. <i>NeuroImage</i> , 2014 , 100, 608-18	7.9	13
212	Sparse image reconstruction on the sphere: implications of a new sampling theorem. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 2275-85	8.7	13
211	Wavelet frames on graphs defined by fMRI functional connectivity 2011 ,		13
210	Can we predict real-time fMRI neurofeedback learning success from pretraining brain activity?. <i>Human Brain Mapping</i> , 2020 , 41, 3839-3854	5.9	13
209	Using real-time fMRI neurofeedback to restore right occipital cortex activity in patients with left visuo-spatial neglect: proof-of-principle and preliminary results. <i>Neuropsychological Rehabilitation</i> , 2019 , 29, 339-360	3.1	13
208	Psychotic symptoms influence the development of anterior cingulate BOLD variability in 22q11.2 deletion syndrome. <i>Schizophrenia Research</i> , 2018 , 193, 319-328	3.6	13

207	The intercellular synchronization of Ca ²⁺ oscillations evaluates Cx36-dependent coupling. <i>PLoS ONE</i> , 2012 , 7, e41535	3.7	12
206	Identifying Network Correlates of Brain States Using Tensor Decompositions of Whole-Brain Dynamic Functional Connectivity 2013 ,		12
205	Lung Texture Classification Using Locally Oriented Riesz Components. <i>Lecture Notes in Computer Science</i> , 2011 , 231-238	0.9	12
204	The photo-electric current in laser-Doppler flowmetry by Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2009 , 54, N303-18	3.8	12
203	Shift-invariant spaces from rotation-covariant functions. <i>Applied and Computational Harmonic Analysis</i> , 2008 , 25, 240-265	3.1	12
202	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis.. <i>Nature Medicine</i> , 2022 ,	50.5	12
201	Dynamic Functional Connectivity of Resting-State Spinal Cord fMRI Reveals Fine-Grained Intrinsic Architecture. <i>Neuron</i> , 2020 , 108, 424-435.e4	13.9	12
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