

# Martin J Mckeown

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204  
papers

9,035  
citations

37  
h-index

93  
g-index

240  
ext. papers

10,613  
ext. citations

4.9  
avg, IF

5.9  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 204 | Removing electroencephalographic artifacts by blind source separation. <i>Psychophysiology</i> , <b>2000</b> , 37, 163-178  | 4.1  | 2074      |
| 203 | Analysis of fMRI data by blind separation into independent spatial components. <i>Human Brain Mapping</i> , <b>1998</b> , 6, 160-88   | 5.9  | 1334      |
| 202 | Removing electroencephalographic artifacts by blind source separation <b>2000</b> , 37, 163   |      | 489       |
| 201 | Spatially independent activity patterns in functional MRI data during the stroop color-naming task. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 803-10 | 11.5 | 366       |
| 200 | Independent component analysis of fMRI data: examining the assumptions. <i>Human Brain Mapping</i> , <b>1998</b> , 6, 368-72  | 5.9  | 355       |
| 199 | Imaging Brain Dynamics Using Independent Component Analysis. <i>Proceedings of the IEEE</i> , <b>2001</b> , 89, 1107-1112   | 11.2 | 339       |
| 198 | Independent component analysis of functional MRI: what is signal and what is noise?. <i>Current Opinion in Neurobiology</i> , <b>2003</b> , 13, 620-9   | 7.6  | 275       |
| 197 | Brain activity evoked by the perception of human walking: controlling for meaningful coherent motion. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 6819-25  | 6.6  | 254       |
| 196 | Polysensory interactions along lateral temporal regions evoked by audiovisual speech. <i>Cerebral Cortex</i> , <b>2003</b> , 13, 1034-43  | 5.1  | 215       |
| 195 | 3D CNN Based Automatic Diagnosis of Attention Deficit Hyperactivity Disorder Using Functional and Structural MRI. <i>IEEE Access</i> , <b>2017</b> , 5, 23626-23636   | 3.5  | 128       |
| 194 | Detection of consistently task-related activations in fMRI data with hybrid independent component analysis. <i>NeuroImage</i> , <b>2000</b> , 11, 24-35   | 7.9  | 127       |
| 193 | Task specific influences of Parkinson's disease on the striato-thalamo-cortical and cerebello-thalamo-cortical motor circuitries. <i>Neuroscience</i> , <b>2007</b> , 147, 224-35                                     | 3.9  | 99        |
| 192 | The Use of Multivariate EMD and CCA for Denoising Muscle Artifacts From Few-Channel EEG Recordings. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 359-370                           | 5.2  | 90        |
| 191 | Modes or models: a critique on independent component analysis for fMRI. <i>Trends in Cognitive Sciences</i> , <b>1998</b> , 2, 373-5  | 14   | 84        |
| 190 | Advances in imaging in Parkinson's disease. <i>Lancet Neurology</i> , <b>2011</b> , 10, 987-1001  | 24.1 | 82        |
| 189 | Acute and persistent pain modulation of attention-related anterior cingulate fMRI activations. <i>Pain</i> , <b>2005</b> , 113, 172-84  | 8    | 79        |
| 188 | Joint amplitude and connectivity compensatory mechanisms in Parkinson's disease. <i>Neuroscience</i> , <b>2010</b> , 166, 1110-8  | 3.9  | 78        |

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|-----|---|------|----|
| 187 | Linking hemodynamic and electrophysiological measures of brain activity: evidence from functional MRI and intracranial field potentials. <i>Cerebral Cortex</i> , <b>2004</b> , 14, 165-73                | 5.1  | 77 |
| 186 | Removing Muscle Artifacts From EEG Data: Multichannel or Single-Channel Techniques?. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 1986-1997  | 4    | 72 |
| 185 | Imaging of compensatory mechanisms in Parkinson's disease. <i>Current Opinion in Neurology</i> , <b>2010</b> , 23, 407-12   | 7.1  | 67 |
| 184 | The role of high-field magnetic resonance imaging in parkinsonian disorders: Pushing the boundaries forward. <i>Movement Disorders</i> , <b>2017</b> , 32, 510-525  | 7    | 65 |
| 183 | When do epileptic seizures really begin?. <i>Neuron</i> , <b>2001</b> , 30, 1-3   | 13.9 | 65 |
| 182 | Motor reserve and novel area recruitment: amplitude and spatial characteristics of compensation in Parkinson's disease. <i>European Journal of Neuroscience</i> , <b>2009</b> , 29, 2187-96               | 3.5  | 62 |
| 181 | Dynamic Bayesian network modeling of fMRI: a comparison of group-analysis methods. <i>NeuroImage</i> , <b>2008</b> , 41, 398-407  | 7.9  | 61 |
| 180 | Functional imaging in Parkinson disease. <i>Neurology</i> , <b>2008</b> , 70, 1478-88   | 6.5  | 61 |
| 179 | Joint Blind Source Separation for Neurophysiological Data Analysis: Multiset and multimodal methods. <i>IEEE Signal Processing Magazine</i> , <b>2016</b> , 33, 86-107                                    | 9.4  | 61 |
| 178 | Alpha, theta and alpha-theta coma: a clinical outcome study utilizing serial recordings. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1994</b> , 91, 93-9                              |      | 60 |
| 177 | Levodopa-sensitive, dynamic changes in effective connectivity during simultaneous movements in Parkinson's disease. <i>Neuroscience</i> , <b>2009</b> , 158, 693-704                                      | 3.9  | 55 |
| 176 | Shape (but not volume) changes in the thalami in Parkinson disease. <i>BMC Neurology</i> , <b>2008</b> , 8, 8   | 3.1  | 50 |
| 175 | Non-invasive monitoring of functionally distinct muscle activations during swallowing. <i>Clinical Neurophysiology</i> , <b>2002</b> , 113, 354-66  | 4.3  | 43 |
| 174 | A Hidden Markov, Multivariate Autoregressive (HMM-mAR) Network Framework for Analysis of Surface EMG (sEMG) Data. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 4069-4081             | 4.8  | 42 |
| 173 | An information-theoretic criterion for intrasubject alignment of FMRI time series: motion corrected independent component analysis. <i>IEEE Transactions on Medical Imaging</i> , <b>2005</b> , 24, 29-44 | 11.7 | 42 |
| 172 | Exercise increases caudate dopamine release and ventral striatal activation in Parkinson's disease. <i>Movement Disorders</i> , <b>2019</b> , 34, 1891-1900   | 7    | 41 |
| 171 | Asymmetrical lateral ventricular enlargement in Parkinson's disease. <i>European Journal of Neurology</i> , <b>2009</b> , 16, 475-81  | 6    | 41 |
| 170 | Noisy galvanic vestibular stimulation modulates the amplitude of EEG synchrony patterns. <i>PLoS ONE</i> , <b>2013</b> , 8, e69055  | 3.7  | 39 |

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|-----|---|------|----|
| 169 | Morphological alterations in the caudate, putamen, pallidum, and thalamus in Parkinson's disease. <i>Frontiers in Neuroscience</i> , <b>2015</b> , 9, 101   | 5.1  | 38 |
| 168 | The role of the cerebellum in the pathophysiology of Parkinson's disease. <i>Canadian Journal of Neurological Sciences</i> , <b>2013</b> , 40, 299-306  | 1    | 37 |
| 167 | A new method for detecting state changes in the EEG: exploratory application to sleep data. <i>Journal of Sleep Research</i> , <b>1998</b> , 7 Suppl 1, 48-56                                       | 5.8  | 36 |
| 166 | The effect of LRRK2 mutations on the cholinergic system in manifest and premanifest stages of Parkinson's disease: a cross-sectional PET study. <i>Lancet Neurology</i> , <b>2018</b> , 17, 309-316 | 24.1 | 35 |
| 165 | DNAJC13 genetic variants in parkinsonism. <i>Movement Disorders</i> , <b>2015</b> , 30, 273-8   | 7    | 32 |
| 164 | Parkinson's disease rigidity: relation to brain connectivity and motor performance. <i>Frontiers in Neurology</i> , <b>2013</b> , 4, 67   | 4.1  | 30 |
| 163 | Removal of Muscle Artifacts From the EEG: A Review and Recommendations. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 5353-5368   | 4    | 29 |
| 162 | Simultaneous ocular and muscle artifact removal from EEG data by exploiting diverse statistics. <i>Computers in Biology and Medicine</i> , <b>2017</b> , 88, 1-10                                   | 7    | 29 |
| 161 | Focusing effects of L-dopa in Parkinson's disease. <i>Human Brain Mapping</i> , <b>2010</b> , 31, 88-97   | 5.9  | 27 |
| 160 | Subacute uremic and diabetic polyneuropathy. <i>Muscle and Nerve</i> , <b>1997</b> , 20, 59-64  | 3.4  | 27 |
| 159 | Underdetermined Anechoic Blind Source Separation via $\ell^q$ -Basis-Pursuit With $q \ll 1$ . <i>IEEE Transactions on Signal Processing</i> , <b>2007</b> , 55, 4004-4017                           | 4.8  | 27 |
| 158 | Greater activation of secondary motor areas is related to less arm use after stroke. <i>Neurorehabilitation and Neural Repair</i> , <b>2010</b> , 24, 78-87   | 4.7  | 26 |
| 157 | Spatially fixed patterns account for the spike and wave features in absence seizures. <i>Brain Topography</i> , <b>1999</b> , 12, 107-16  | 4.3  | 26 |
| 156 | Shrinkage-to-Tapering Estimation of Large Covariance Matrices. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 5640-5656  | 4.8  | 25 |
| 155 | DCTN1 p.K56R in progressive supranuclear palsy. <i>Parkinsonism and Related Disorders</i> , <b>2016</b> , 28, 56-61   | 3.6  | 24 |
| 154 | Cognitive Profiles and Hub Vulnerability in Parkinson's Disease. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 482   | 4.1  | 23 |
| 153 | New brain networks are active after right MCA stroke when moving the ipsilesional arm. <i>Neurology</i> , <b>2005</b> , 64, 114-20  | 6.5  | 23 |
| 152 | Multifaceted effects of noisy galvanic vestibular stimulation on manual tracking behavior in Parkinson's disease. <i>Frontiers in Systems Neuroscience</i> , <b>2015</b> , 9, 5                     | 3.5  | 22 |

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|-----|---|-----|----|
| 151 | Altered directional connectivity in Parkinson's disease during performance of a visually guided task. <i>NeuroImage</i> , <b>2011</b> , 56, 2144-56   | 7.9 | 22 |
| 150 | Asymptotic Analysis of Robust LASSOs in the Presence of Noise With Large Variance. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 5131-5149   | 2.8 | 22 |
| 149 | Phasic and tonic coupling between EEG and EMG demonstrated with independent component analysis. <i>Journal of Clinical Neurophysiology</i> , <b>2001</b> , 18, 45-57  | 2.2 | 22 |
| 148 | Gender differences in Parkinson's disease depression. <i>Parkinsonism and Related Disorders</i> , <b>2017</b> , 36, 93-97   | 3.6 | 21 |
| 147 | A multiblock PLS model of cortico-cortical and corticomuscular interactions in Parkinson's disease. <i>NeuroImage</i> , <b>2012</b> , 63, 1498-509  | 7.9 | 21 |
| 146 | Dynamic Graph Theoretical Analysis of Functional Connectivity in Parkinson's Disease: The Importance of Fiedler Value. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 1720-1729             | 7.2 | 21 |
| 145 | Education, and the balance between dynamic and stationary functional connectivity jointly support executive functions in relapsing-remitting multiple sclerosis. <i>Human Brain Mapping</i> , <b>2018</b> , 39, 5039-5049 | 5.9 | 21 |
| 144 | High-frequency rTMS over the supplementary motor area improves freezing of gait in Parkinson's disease: a randomized controlled trial. <i>Parkinsonism and Related Disorders</i> , <b>2019</b> , 68, 85-90                | 3.6 | 20 |
| 143 | Genetic variability of the retromer cargo recognition complex in parkinsonism. <i>Movement Disorders</i> , <b>2015</b> , 30, 580-4  | 7   | 20 |
| 142 | An EEMD-IVA framework for concurrent multidimensional EEG and unidimensional kinematic data analysis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 2187-98                                      | 5   | 19 |
| 141 | Isolation and minimization of head motion-induced signal variations in fMRI data using independent component analysis. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 1396-413                                 | 4.4 | 19 |
| 140 | ReMAE: User-Friendly Toolbox for Removing Muscle Artifacts From EEG. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 2105-2119  | 5.2 | 19 |
| 139 | theta, beta But not alpha-band EEG connectivity has implications for dual task performance in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , <b>2010</b> , 16, 393-7                                    | 3.6 | 18 |
| 138 | Habitual exercisers versus sedentary subjects with Parkinson's Disease: Multimodal PET and fMRI study. <i>Movement Disorders</i> , <b>2018</b> , 33, 1945-1950  | 7   | 18 |
| 137 | Investigation of serotonergic Parkinson's disease-related covariance pattern using [C]-DASB/PET. <i>NeuroImage: Clinical</i> , <b>2018</b> , 19, 652-660  | 5.3 | 18 |
| 136 | Removal of High-Voltage Brain Stimulation Artifacts From Simultaneous EEG Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 50-60  | 5   | 17 |
| 135 | A sticky weighted regression model for time-varying resting-state brain connectivity estimation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 501-510   | 5   | 17 |
| 134 | Classification of astrocytomas and malignant astrocytomas by principal components analysis and a neural net. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>1996</b> , 55, 1238-45                      | 3.1 | 17 |

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|-----|---|------|----|
| 133 | Galvanic Vestibular Stimulation (GVS) Augments Deficient Pedunculopontine Nucleus (PPN) Connectivity in Mild Parkinson's Disease: fMRI Effects of Different Stimuli. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 101 | 5.1  | 16 |
| 132 | An IC-PLS framework for group corticomuscular coupling analysis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 2022-33   | 5    | 16 |
| 131 | A Generalized Multivariate Autoregressive (GmAR)-Based Approach for EEG Source Connectivity Analysis. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 453-465   | 4.8  | 16 |
| 130 | A novel segmentation, mutual information network framework for EEG analysis of motor tasks. <i>BioMedical Engineering OnLine</i> , <b>2009</b> , 8, 9   | 4.1  | 16 |
| 129 | Deterministic and stochastic features of fMRI data: implications for analysis of event-related experiments. <i>Journal of Neuroscience Methods</i> , <b>2002</b> , 118, 103-13  | 3    | 16 |
| 128 | Visual Contrast Sensitivity in Early-Stage Parkinson's Disease <b>2016</b> , 57, 5696-5704  |      | 16 |
| 127 | Novel spatial analysis method for PET images using 3D moment invariants: applications to Parkinson's disease. <i>NeuroImage</i> , <b>2013</b> , 68, 11-21   | 7.9  | 15 |
| 126 | Response to sensory uncertainty in Parkinson's disease: a marker of cerebellar dysfunction?. <i>European Journal of Neuroscience</i> , <b>2011</b> , 33, 298-305  | 3.5  | 15 |
| 125 | L-dopa induces under-damped visually guided motor responses in Parkinson's disease. <i>Experimental Brain Research</i> , <b>2010</b> , 202, 553-9   | 2.3  | 15 |
| 124 | Cortical activation related to arm-movement combinations. <i>Muscle and Nerve</i> , <b>2000</b> , 9, S19-25   | 3.4  | 15 |
| 123 | Joint pattern analysis applied to PET DAT and VMAT2 imaging reveals new insights into Parkinson's disease induced presynaptic alterations. <i>NeuroImage: Clinical</i> , <b>2019</b> , 23, 101856                             | 5.3  | 14 |
| 122 | Bayesian network modeling for discovering "dependent synergies" among muscles in reaching movements. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2008</b> , 55, 298-310   | 5    | 14 |
| 121 | Spatial characterization of fMRI activation maps using invariant 3-D moment descriptors. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 261-8  | 11.7 | 13 |
| 120 | Local linear discriminant analysis (LLDA) for group and region of interest (ROI)-based fMRI analysis. <i>NeuroImage</i> , <b>2007</b> , 37, 855-65  | 7.9  | 13 |
| 119 | Abnormal Phase Coupling in Parkinson's Disease and Normalization Effects of Subthreshold Vestibular Stimulation. <i>Frontiers in Human Neuroscience</i> , <b>2019</b> , 13, 118   | 3.3  | 12 |
| 118 | A three-step multimodal analysis framework for modeling corticomuscular activity with application to Parkinson's disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1232-41                | 7.2  | 12 |
| 117 | Group replicator dynamics: a novel group-wise evolutionary approach for sparse brain network detection. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 576-85  | 11.7 | 11 |
| 116 | Electromyography of the diaphragm in neuromuscular disease. <i>Muscle and Nerve</i> , <b>1998</b> , 21, 954-7   | 3.4  | 11 |

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|-----|--|-----|----|
| 115 | Movement disorders. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2016</i> , 136, 957-69   | 3   | 10 |
| 114 | A genetically informed, group fMRI connectivity modeling approach: application to schizophrenia. <i>IEEE Transactions on Biomedical Engineering, 2014</i> , 61, 946-56   | 5   | 10 |
| 113 | Sparse multivariate autoregressive (mAR)-based partial directed coherence (PDC) for electroencephalogram (EEG) analysis <b>2009</b> ,  |     | 10 |
| 112 | Response from Martin McKeown, Makeig, Brown, Jung, Kindermann, Bell and Sejnowski. <i>Trends in Cognitive Sciences, 1998</i> , 2, 375  | 14  | 10 |
| 111 | Repetitive transcranial magnetic stimulation improves Parkinson's freezing of gait via normalizing brain connectivity. <i>Npj Parkinsons Disease, 2020</i> , 6, 16   | 9.7 | 10 |
| 110 | Analysis of fMRI data by blind separation into independent spatial components <b>1998</b> , 6, 160   |     | 10 |
| 109 | Asymmetrical ventricular enlargement in Parkinson's disease. <i>Movement Disorders, 2007</i> , 22, 1657-60   | 7   | 9  |
| 108 | ICA Denoising for Event-Related fMRI Studies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2005</i> , 2006, 157-61  |     | 9  |
| 107 | A Wavelet Based Approach for the Detection of Coupling in EEG Signals  |     | 9  |
| 106 | Cognitive Performance in Subjects With Multiple Sclerosis Is Robustly Influenced by Gender in Canonical-Correlation Analysis. <i>Journal of Neuropsychiatry and Clinical Neurosciences, 2017</i> , 29, 119-127 | 2.7 | 8  |
| 105 | Decisions under risk in Parkinson's disease: preserved evaluation of probability and magnitude. <i>Neuropsychologia, 2013</i> , 51, 2679-89  | 3.2 | 8  |
| 104 | Assessing manual pursuit tracking in Parkinson's disease via linear dynamical systems. <i>Annals of Biomedical Engineering, 2011</i> , 39, 2263-73   | 4.7 | 8  |
| 103 | Probabilistic Boolean Network Analysis of Brain Connectivity in Parkinson's Disease. <i>IEEE Journal on Selected Topics in Signal Processing, 2008</i> , 2, 975-985  | 7.5 | 8  |
| 102 | A post-processing/region of interest (ROI) method for discriminating patterns of activity in statistical maps of fMRI data. <i>Journal of Neuroscience Methods, 2004</i> , 135, 137-47                         | 3   | 8  |
| 101 | The Effects of Music-Contingent Gait Training on Cognition and Mood in Parkinson Disease: A Feasibility Study. <i>Neurorehabilitation and Neural Repair, 2020</i> , 34, 82-92                                  | 4.7 | 8  |
| 100 | Decreased subregional specificity of the putamen in Parkinson's Disease revealed by dynamic connectivity-derived parcellation. <i>NeuroImage: Clinical, 2018</i> , 20, 1163-1175                               | 5.3 | 8  |
| 99  | Controlling a motorized orthosis to follow elbow volitional movement: tests with individuals with pathological tremor. <i>Journal of NeuroEngineering and Rehabilitation, 2019</i> , 16, 23                    | 5.3 | 7  |
| 98  | Deep learning based automatic diagnoses of attention deficit hyperactive disorder <b>2017</b> ,  |     | 7  |

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|----|---|-----|---|
| 97 | A computationally efficient, exploratory approach to brain connectivity incorporating false discovery rate control, a priori knowledge, and group inference. <i>Computational and Mathematical Methods in Medicine</i> , <b>2012</b> , 2012, 967380   | 2.8 | 7 |
| 96 | Invariant SPHARM shape descriptors for complex geometry in MR region of interest analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 1322-5  |     | 7 |
| 95 | White matter myelin profiles linked to clinical subtypes of Parkinson's disease. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 164-174   | 5.6 | 7 |
| 94 | Semi-dilated convolutional neural networks for epileptic seizure prediction. <i>Neural Networks</i> , <b>2021</b> , 139, 212-222  | 9.1 | 7 |
| 93 | A convolutional-recurrent neural network approach to resting-state EEG classification in Parkinson's disease. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 361, 109282  | 3   | 7 |
| 92 | Toward Open-World Electroencephalogram Decoding Via Deep Learning: A comprehensive survey. <i>IEEE Signal Processing Magazine</i> , <b>2022</b> , 39, 117-134   | 9.4 | 7 |
| 91 | A Novel MRI Compatible Balance Simulator to Detect Postural Instability in Parkinson's Disease. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 922   | 4.1 | 6 |
| 90 | Novel LRRK2 mutations in Parkinsonism. <i>Parkinsonism and Related Disorders</i> , <b>2015</b> , 21, 1119-21  | 3.6 | 6 |
| 89 | Subthreshold stochastic vestibular stimulation induces complex multi-planar effects during standing in Parkinson's disease. <i>Brain Stimulation</i> , <b>2018</b> , 11, 1180-1182  | 5.1 | 6 |
| 88 | A fuzzy logic based Parkinson's Disease risk predictor <b>2014</b> ,  |     | 6 |
| 87 | Excessive Sensitivity to Uncertain Visual Input in L-DOPA-Induced Dyskinesias in Parkinson's Disease: Further Implications for Cerebellar Involvement. <i>Frontiers in Neurology</i> , <b>2014</b> , 5, 8   | 4.1 | 6 |
| 86 | FMRI group studies of brain connectivity via a group robust Lasso <b>2010</b> ,   |     | 6 |
| 85 | Discovering sparse functional brain networks using group replicator dynamics (GRD). <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 21, 76-87  | 0.9 | 6 |
| 84 | A Deep Learning Strategy for Automatic Sleep Staging Based on Two-Channel EEG Headband Data. <i>Sensors</i> , <b>2021</b> , 21,   | 3.8 | 6 |
| 83 | Robust Eye-Based Dwell-Free Typing. <i>International Journal of Human-Computer Interaction</i> , <b>2016</b> , 32, 682-694  | 3.6 | 6 |
| 82 | Serotonergic System Impacts Levodopa Response in Early Parkinson's and Future Risk of Dyskinesia. <i>Movement Disorders</i> , <b>2021</b> , 36, 389-397   | 7   | 6 |
| 81 | Differentiating cognitive or motor dimensions associated with the perception of fall-related self-efficacy in Parkinson's disease. <i>Npj Parkinsons Disease</i> , <b>2018</b> , 4, 26  | 9.7 | 6 |
| 80 | Galvanic Vestibular Stimulation (GVS) effects on impaired interhemispheric connectivity in Parkinson's Disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 2108-2113 | 0.9 | 5 |



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|----|---|------|---|
| 79 | A Bayesian Lasso via reversible-jump MCMC. <i>Signal Processing</i> , <b>2011</b> , 91, 1920-1932   | 4.4  | 5 |
| 78 | Adverse effects of template-based warping on spatial fMRI analysis <b>2009</b> ,  |      | 5 |
| 77 | Increasing the effect size in event-related fMRI studies. <i>IEEE Engineering in Medicine and Biology Magazine</i> , <b>2006</b> , 25, 91-101   |      | 5 |
| 76 | A framework for group analysis of fMRI data using dynamic Bayesian networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 5992-5                                |      | 5 |
| 75 | Comparison between the alpha pattern in normal subjects and in alpha pattern coma. <i>Journal of Clinical Neurophysiology</i> , <b>1997</b> , 14, 414-8   | 2.2  | 5 |
| 74 | Current perspectives on galvanic vestibular stimulation in the treatment of Parkinson's disease. <i>Expert Review of Neurotherapeutics</i> , <b>2021</b> , 21, 405-418  | 4.3  | 5 |
| 73 | Expediting telehealth use in clinical research studies: recommendations for overcoming barriers in North America. <i>Npj Parkinsons Disease</i> , <b>2021</b> , 7, 34   | 9.7  | 5 |
| 72 | Small P values may not yield robust findings: an example using REST-meta-PD. <i>Science Bulletin</i> , <b>2021</b> , 66, 2148-2152  | 10.6 | 5 |
| 71 | A Combined Static and Dynamic Model for Resting-State Brain Connectivity Networks. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2016</b> , 10, 1172-1181  | 7.5  | 4 |
| 70 | Data fusion detects consistent relations between non-lesional white matter myelin, executive function, and clinical characteristics in multiple sclerosis. <i>NeuroImage: Clinical</i> , <b>2019</b> , 24, 101926                       | 5.3  | 4 |
| 69 | Dyskinetic Parkinson's disease patients demonstrate motor abnormalities off medication. <i>Experimental Brain Research</i> , <b>2011</b> , 214, 471-9   | 2.3  | 4 |
| 68 | Joint spatial denoising and active region of interest delineation in functional magnetic resonance imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 3404-7 |      | 4 |
| 67 | Structural Network Analysis Using Diffusion MRI Tractography in Parkinson's Disease and Correlations With Motor Impairment. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 841   | 4.1  | 4 |
| 66 | CamType: assistive text entry using gaze with an off-the-shelf webcam. <i>Machine Vision and Applications</i> , <b>2019</b> , 30, 407-421   | 2.8  | 3 |
| 65 | Connectivity-based parcellation of functional SubROIs in putamen using a sparse spatially regularized regression model. <i>Biomedical Signal Processing and Control</i> , <b>2016</b> , 27, 174-183                                     | 4.9  | 3 |
| 64 | Altered EEG alpha and theta oscillations characterize apathy in Parkinson's disease during incentivized movement. <i>NeuroImage: Clinical</i> , <b>2019</b> , 23, 101922  | 5.3  | 3 |
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