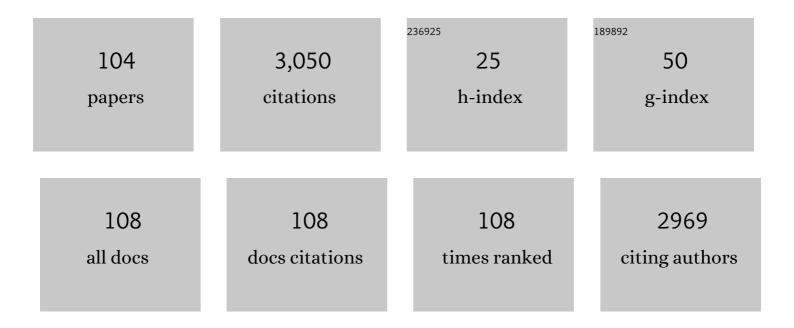
Damien H Coyle

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comparative Analysis of Spectral Approaches to Feature Extraction for EEG-Based Motor Imagery Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 317-326.	4.9	352
2	Applying a brain-computer interface to support motor imagery practice in people with stroke for upper limb recovery: a feasibility study. Journal of NeuroEngineering and Rehabilitation, 2010, 7, 60.	4.6	262
3	Games, Gameplay, and BCI: The State of the Art. IEEE Transactions on Games, 2013, 5, 82-99.	1.4	162
4	Critical issues in state-of-the-art brain–computer interface signal processing. Journal of Neural Engineering, 2011, 8, 025002.	3.5	131
5	A thalamo–cortico–thalamic neural mass model to study alpha rhythms in Alzheimer's disease. Neural Networks, 2011, 24, 631-645.	5.9	105
6	A time-series prediction approach for feature extraction in a brain-computer interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 461-467.	4.9	102
7	EEG-Based Mobile Robot Control Through an Adaptive Brain–Robot Interface. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1278-1285.	9.3	88
8	Quantum Neural Network-Based EEG Filtering for a Brain–Computer Interface. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 278-288.	11.3	87
9	Functional neuroimaging of visual creativity: a systematic review and metaâ€analysis. Brain and Behavior, 2016, 6, e00540.	2.2	87
10	Faster Self-Organizing Fuzzy Neural Network Training and a Hyperparameter Analysis for a Brain–Computer Interface. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1458-1471.	5.0	82
11	A review of rapid serial visual presentation-based brain–computer interfaces. Journal of Neural Engineering, 2018, 15, 021001.	3.5	81
12	Decoding Imagined 3D Hand Movement Trajectories From EEG: Evidence to Support the Use of Mu, Beta, and Low Gamma Oscillations. Frontiers in Neuroscience, 2018, 12, 130.	2.8	69
13	Neurolinguistics Research Advancing Development of a Direct-Speech Brain-Computer Interface. IScience, 2018, 8, 103-125.	4.1	58
14	Neural network based auto association and time-series prediction for biosignal processing in brain-computer interfaces. IEEE Computational Intelligence Magazine, 2009, 4, 47-59.	3.2	57
15	EEG-based continuous control of a game using a 3 channel motor imagery BCI: BCI game. , 2011, , .		56
16	Gray matter concentration and effective connectivity changes in Alzheimer's disease: a longitudinal structural MRI study. Neuroradiology, 2011, 53, 733-748.	2.2	53
17	Sensorimotor Modulation Assessment and Brain-Computer Interface Training in Disorders of AConsciousness. Archives of Physical Medicine and Rehabilitation, 2015, 96, S62-S70.	0.9	49
18	Optimizing Layers Improves CNN Generalization and Transfer Learning for Imagined Speech Decoding		49

from EEG. , 2019, , .

#	Article	IF	CITATIONS
19	Alpha and Theta Rhythm Abnormality in Alzheimer's Disease: A Study Using a Computational Model. Advances in Experimental Medicine and Biology, 2011, 718, 57-73.	1.6	48
20	Evaluation of Hyperparameter Optimization in Machine and Deep Learning Methods for Decoding Imagined Speech EEG. Sensors, 2020, 20, 4629.	3.8	48
21	A Time-Frequency Approach to Feature Extraction for a Brain-Computer Interface with a Comparative Analysis of Performance Measures. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	44
22	Guest Editorial: Brain/neuronal - Computer game interfaces and interaction. IEEE Transactions on Games, 2013, 5, 77-81.	1.4	35
23	Improving the separability of multiple EEG features for a BCI by neural-time-series-prediction-preprocessing. Biomedical Signal Processing and Control, 2010, 5, 196-204.	5.7	34
24	Is Sensorimotor BCI Performance Influenced Differently by Mono, Stereo, or 3-D Auditory Feedback?. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 431-440.	4.9	34
25	Metastable neural dynamics in Alzheimer's disease are disrupted by lesions to the structural connectome. NeuroImage, 2018, 183, 438-455.	4.2	34
26	Model-based bifurcation and power spectral analyses of thalamocortical alpha rhythm slowing in Alzheimer's Disease. Neurocomputing, 2013, 115, 11-22.	5.9	33
27	Compensating for synaptic loss in Alzheimer's disease. Journal of Computational Neuroscience, 2014, 36, 19-37.	1.0	33
28	Computational Study of Hippocampal-Septal Theta Rhythm Changes Due to Beta-Amyloid-Altered Ionic Channels. PLoS ONE, 2011, 6, e21579.	2.5	30
29	Self-paced brain-controlled wheelchair methodology with shared and automated assistive control. , $2011,$, .		28
30	Metastable neural dynamics underlies cognitive performance across multiple behavioural paradigms. Human Brain Mapping, 2020, 41, 3212-3234.	3.6	28
31	Beta-amyloid induced changes in A-type K+ current can alter hippocampo-septal network dynamics. Journal of Computational Neuroscience, 2012, 32, 465-477.	1.0	27
32	Using motor imagery based brain-computer interface for post-stroke rehabilitation. , 2009, , .		26
33	Investigating the Neural Correlates of Pathological Cortical Networks in Alzheimer's Disease Using Heterogeneous Neuronal Models. IEEE Transactions on Biomedical Engineering, 2012, 59, 890-896.	4.2	26
34	Mel Frequency Cepstral Coefficients Enhance Imagined Speech Decoding Accuracy from EEG. , 2018, , .		24
35	A Systematic Review Establishing the Current State-of-the-Art, the Limitations, and the DESIRED Checklist in Studies of Direct Neural Interfacing With Robotic Gait Devices in Stroke Rehabilitation. Frontiers in Neuroscience, 2020, 14, 578.	2.8	24
36	Sensorimotor learning with stereo auditory feedback for a brain–computer interface. Medical and Biological Engineering and Computing, 2013, 51, 285-293.	2.8	22

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37	Compensating for thalamocortical synaptic loss in Alzheimer's disease. Frontiers in Computational Neuroscience, 2014, 8, 65.	2.1	22
38	Evaluating Quantum Neural Network filtered motor imagery brain-computer interface using multiple classification techniques. Neurocomputing, 2015, 170, 161-167.	5.9	22
39	Disrupted Thalamus White Matter Anatomy and Posterior Default Mode Network Effective Connectivity in Amnestic Mild Cognitive Impairment. Frontiers in Aging Neuroscience, 2017, 9, 370.	3.4	22
40	Emotion-Inducing Imagery Versus Motor Imagery for a Brain-Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 850-859.	4.9	21
41	A Covariate Shift Minimisation Method to Alleviate Non-stationarity Effects for an Adaptive Brain-Computer Interface. , 2010, , .		20
42	3D hand motion trajectory prediction from EEG mu and beta bandpower. Progress in Brain Research, 2016, 228, 71-105.	1.4	20
43	Neurogaming With Motion-Onset Visual Evoked Potentials (mVEPs): Adults Versus Teenagers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 572-581.	4.9	19
44	Continuous EEG classification for a self-paced BCI. , 2009, , .		18
45	Fornix White Matter is Correlated with Resting-State Functional Connectivity of the Thalamus and Hippocampus in Healthy Aging but Not in Mild Cognitive Impairment ââ,¬â€œ A Preliminary Study. Frontiers in Aging Neuroscience, 2015, 7, 10.	3.4	18
46	Decoding Imagined 3D Arm Movement Trajectories From EEG to Control Two Virtual Arms—A Pilot Study. Frontiers in Neurorobotics, 2019, 13, 94.	2.8	17
47	Speed of Rapid Serial Visual Presentation of Pictures, Numbers and Words Affects Event-Related Potential-Based Detection Accuracy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 113-122.	4.9	16
48	Neurofeedback with low-cost, wearable electroencephalography (EEG) reduces symptoms in chronic Post-Traumatic Stress Disorder. Journal of Affective Disorders, 2021, 295, 1319-1334.	4.1	16
49	A Model Selection Method for Nonlinear System Identification Based fMRI Effective Connectivity Analysis. IEEE Transactions on Medical Imaging, 2011, 30, 1365-1380.	8.9	14
50	Gaussian Mixture Model-based noise reduction in resting state fMRI data. Journal of Neuroscience Methods, 2013, 215, 71-77.	2.5	14
51	3D graphics, virtual reality, and motion-onset visual evoked potentials in neurogaming. Progress in Brain Research, 2016, 228, 329-353.	1.4	14
52	Spatio-spectral & temporal parameter searching using class correlation analysis and particle swarm optimization for a brain computer interface. , 2009, , .		13
53	A least angle regression method for fMRI activation detection in phase-encoded experimental designs. NeuroImage, 2010, 52, 1390-1400.	4.2	13
54	Imagined 3D hand movement trajectory decoding from sensorimotor EEG rhythms. , 2016, , .		13

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55	A Bimodal Deep Learning Architecture for EEG-fNIRS Decoding of Overt and Imagined Speech. IEEE Transactions on Biomedical Engineering, 2022, 69, 1983-1994.	4.2	13
56	Modulation of Effective Connectivity in the Default Mode Network at Rest and During a Memory Task. Brain Connectivity, 2015, 5, 60-67.	1.7	12
57	A hybrid ICA-wavelet transform for automated artefact removal in EEG-based emotion recognition. , 2016, , .		12
58	A Hybrid Capsule Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11824-11839.	4.9	11
59	Extracting features for a brain-computer interface by self-organising fuzzy neural network-based time series prediction. , 2004, 2004, 4371-4.		10
60	Neural time-series prediction preprocessing meets common spatial patterns in a brain-computer interface. , 2008, 2008, 2626-9.		10
61	Learning to modulate sensorimotor rhythms with stereo auditory feedback for a brain-computer interface. , 2012, 2012, 6711-4.		9
62	A multi-class brain-computer interface with SOFNN-based prediction preprocessing. , 2008, , .		7
63	Thalamocortical circuitry and alpha rhythm slowing: An empirical study based on a classic computational model. , 2010, , .		7
64	EEG denoising with a recurrent quantum neural network for a brain-computer interface. , 2011, , .		7
65	A Combination of Pre- and Postprocessing Techniques to Enhance Self-Paced BCIs. Advances in Human-Computer Interaction, 2012, 2012, 1-10.	2.8	7
66	Can teenagers control a 3D racing game using motion-onset visual evoked potentials?. Brain-Computer Interfaces, 2017, 4, 102-113.	1.8	7
67	Long Timescale fMRI Neuronal Adaptation Effects in Human Amblyopic Cortex. PLoS ONE, 2011, 6, e26562.	2.5	7
68	Creating a Nonparametric Brain-Computer Interface with Neural Time-Series Prediction Preprocessing. , 2006, 2006, 2183-6.		6
69	On utilizing self-organizing fuzzy neural networks for financial forecasts in the NN5 forecasting competition. , 2010, , .		6
70	Using acoustic sensors to discriminate between nasal and mouth breathing. International Journal of Bioinformatics Research and Applications, 2012, 8, 382.	0.2	6
71	Unsupervised short-term covariate shift minimization for self-paced BCI. , 2013, , .		6
72	A Least Trimmed Square Regression Method for Second Level fMRI Effective Connectivity Analysis. Neuroinformatics, 2013, 11, 105-118.	2.8	6

#	Article	lF	CITATIONS
73	Trends in BCI Research I: Brain-Computer Interfaces for Assessment of Patients with Locked-in Syndrome or Disorders of Consciousness. Springer Briefs in Electrical and Computer Engineering, 2017, , 105-125.	0.5	6
74	Interacting with multiple game genres using Motion Onset Visual Evoked Potentials. , 2015, , .		5
75	Motor Imagery BCI with Auditory Feedback as a Mechanism for Assessment and Communication in Disorders of Consciousness. Springer Briefs in Electrical and Computer Engineering, 2017, , 51-69.	0.5	5
76	Enhancing Autonomy and Computational Efficiency of the Self-Organizing Fuzzy Neural Network for a Brain Computer Interface. , 2006, , .		4
77	Sensorimotor-rhythm Modulation Feedback with 3D Vector-base Amplitude Panning - A Brain-computer Interface Pilot Study. , 2012, , .		4
78	Calibration-less detection of steady-state visual evoked potentials-comparisons and combinations of methods. , 2014, , .		4
79	Spectral and Non-linear Analysis of Thalamocortical Neural Mass Model Oscillatory Dynamics. , 2014, , 87-112.		4
80	Predictive-spectral-spatial preprocessing for a multiclass brain-computer interface. , 2010, , .		3
81	Assessing retino-geniculo-cortical connectivities in Alzheimer's Disease with a neural mass model. , 2011, , .		3
82	Employing neuronal networks to investigate the pathophysiological basis of abnormal cortical oscillations in Alzheimer's disease. , 2011, 2011, 2065-8.		3
83	A recurrent quantum neural network model enhances the EEG signal for an improved brain-computer interface. , 2011, , .		3
84	Editorial: Advances in the Integration of Brain-Machine Interfaces and Robotic Devices. Frontiers in Robotics and Al, 2021, 8, 653615.	3.2	3
85	Neural Circuit Models and Neuropathological Oscillations. , 2014, , 673-702.		3
86	Identifying Local Ultrametricity of EEG Time Series for Feature Extraction in a Brain-Computer Interface. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 701-4.	0.5	2
87	Intra- and inter-connectivity influences on event related changes in thalamocortical alpha rhythms. , 2010, , .		2
88	A self-organising fuzzy neural network with locally recurrent self-adaptive synapses. , 2011, , .		2
89	EEG Based Foot Movement Onset Detection with the Probabilistic Classification Vector Machine. Lecture Notes in Computer Science, 2012, , 356-363.	1.3	2
90	Classification effects on Motion-Onset Visual Evoked Potentials using commercially available video games. , 2015, , .		2

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91	Preface. Progress in Brain Research, 2016, 228, xvii-xviii.	1.4	2
92	Computational Neurology: Computational Modeling Approaches in Dementia. , 2021, , 81-89.		2
93	Faster Self-Organizing Fuzzy Neural Network Training and Improved Autonomy with Time-Delayed Synapses for Locally Recurrent Learning. , 0, , 156-183.		2
94	A novelty detection approach to effectively predict conversion from mild cognitive impairment to Alzheimer's disease. International Journal of Machine Learning and Cybernetics, 2023, 14, 213-228.	3.6	2
95	Improving Signal Separability and Inter-Session Stability for a Brain-Computer Interface by Time-Series-Prediction-Preprocessing. , 2005, 2005, 5412-5.		1
96	Maximum likelihood estimation for second level fMRI data analysis with expectation trust region algorithm. Magnetic Resonance Imaging, 2014, 32, 132-149.	1.8	1
97	Action Games, Motor Imagery, and Control Strategies: Toward a Multi-button Controller. , 2017, , 99-132.		1
98	Action Games, Motor Imagery, and Control Strategies: Toward a Multi-button Controller. , 2015, , 1-34.		1
99	United Kingdom and Republic of Ireland Chapter Report [Family Corner. IEEE Computational Intelligence Magazine, 2010, 5, 16-19.	3.2	0
100	A Report on the CIS Second Video Competition [Society Briefs]. IEEE Computational Intelligence Magazine, 2014, 9, 11-12.	3.2	0
101	Modelling Cortical and Thalamocortical Synaptic Loss and Compensation Mechanisms in Alzheimer's Disease. Springer Series in Computational Neuroscience, 2015, , 221-275.	0.3	0
102	Neuroengineering. , 2015, , 727-769.		0
103	Statistical Methods for fMRI Activation and Effective Connectivity Studies. , 2014, , 647-672.		Ο
104	A Hybrid Multi-Objective Teaching Learning-Based Optimization Using Reference Points and R2 Indicator. , 2022, , .		0