

Quentin Noirhomme

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

6,193
citations

81839

39
h-index

95218

68
g-index

79
all docs

79
docs citations

79
times ranked

5274
citing authors

#	ARTICLE	IF	CITATIONS
1	Mental imagery for brain-computer interface control and communication in non-responsive individuals. <i>Annals of Physical and Rehabilitation Medicine</i> , 2020, 63, 21-27.	1.1	13
2	A mean field approach to model levels of consciousness from EEG recordings. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 083405.	0.9	4
3	Increased cerebral responses to salient transitions between alternating stimuli in chronic migraine with medication overuse headache and during migraine attacks. <i>Cephalalgia</i> , 2019, 39, 988-999.	1.8	8
4	Toward an Attention-Based Diagnostic Tool for Patients With Locked-in Syndrome. <i>Clinical EEG and Neuroscience</i> , 2018, 49, 122-135.	0.9	17
5	Electrophysiology in Disorders of Consciousness: From Conventional EEG Visual Analysis to Brain-Computer Interfaces. , 2018, , 51-75.		0
6	â€œLook at my classifier's resultâ€ Disentangling unresponsive from (minimally) conscious patients. <i>NeuroImage</i> , 2017, 145, 288-303.	2.1	36
7	A method for independent component graph analysis of restingâ€state <sc>fMRI</sc>. <i>Brain and Behavior</i> , 2017, 7, e00626.	1.0	27
8	Real-time fMRI-based self-regulation of brain activation across different visual feedback presentations. <i>Brain-Computer Interfaces</i> , 2017, 4, 87-101.	0.9	19
9	Trends in BCI Research I: Brain-Computer Interfaces for Assessment of Patients with Locked-in Syndrome or Disorders of Consciousness. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2017, , 105-125.	0.3	6
10	Cognitive Processing in Non-Communicative Patients: What Can Event-Related Potentials Tell Us?. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 569.	1.0	16
11	Electromyographic decoding of response to command in disorders of consciousness. <i>Neurology</i> , 2016, 87, 2099-2107.	1.5	21
12	Large-scale signatures of unconsciousness are consistent with a departure from critical dynamics. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20151027.	1.5	148
13	Propofol-Induced Frontal Cortex Disconnection: A Study of Resting-State Networks, Total Brain Connectivity, and Mean BOLD Signal Oscillation Frequencies. <i>Brain Connectivity</i> , 2016, 6, 225-237.	0.8	49
14	Correlation between resting state <sc>fMRI</sc> total neuronal activity and <sc>PET</sc> metabolism in healthy controls and patients with disorders of consciousness. <i>Brain and Behavior</i> , 2016, 6, e00424.	1.0	40
15	Improving EEG-BCI analysis for low certainty subjects by using dictionary learning. , 2015, , .		1
16	Complexity of Multi-Dimensional Spontaneous EEG Decreases during Propofol Induced General Anaesthesia. <i>PLoS ONE</i> , 2015, 10, e0133532.	1.1	231
17	Hypnosis modulates behavioural measures and subjective ratings about external and internal awareness. <i>Journal of Physiology (Paris)</i> , 2015, 109, 173-179.	2.1	24
18	Cerebral responses and role of the prefrontal cortex in conditioned pain modulation: an fMRI study in healthy subjects. <i>Behavioural Brain Research</i> , 2015, 281, 187-198.	1.2	59

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19	Brain-Computer Interface for Assessing Consciousness in Severely Brain-Injured Patients. , 2015, , 133-148.		8
20	Detection of response to command using voluntary control of breathing in disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1020.	1.0	19
21	An independent SSVEP-based brain-computer interface in locked-in syndrome. <i>Journal of Neural Engineering</i> , 2014, 11, 035002.	1.8	99
22	Automated Analysis of Background EEG and Reactivity During Therapeutic Hypothermia in Comatose Patients After Cardiac Arrest. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 6-13.	0.9	85
23	A Vibrotactile P300-Based Brain-computer Interface for Consciousness Detection and Communication. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 14-21.	0.9	73
24	Directed Information Transfer in Scalp Electroencephalographic Recordings. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 33-39.	0.9	32
25	Consciousness and Unconsciousness. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 4-5.	0.9	7
26	Multiple fMRI system-level baseline connectivity is disrupted in patients with consciousness alterations. <i>Cortex</i> , 2014, 52, 35-46.	1.1	185
27	Volitional electromyographic responses in disorders of consciousness. <i>Brain Injury</i> , 2014, 28, 1171-1179.	0.6	32
28	Biased binomial assessment of cross-validated estimation of classification accuracies illustrated in diagnosis predictions. <i>NeuroImage: Clinical</i> , 2014, 4, 687-694.	1.4	112
29	Brain-Computer Interfaces and Diagnosis. <i>The International Library of Ethics, Law and Technology</i> , 2014, , 39-47.	0.2	2
30	Characterizing brain states with Granger causality. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	0
31	Electroencephalographic profiles for differentiation of disorders of consciousness. <i>BioMedical Engineering OnLine</i> , 2013, 12, 109.	1.3	48
32	The auditory P300-based single-switch brain-computer interface: Paradigm transition from healthy subjects to minimally conscious patients. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 81-90.	3.8	74
33	Reanalysis of "Bedside detection of awareness in the vegetative state: a cohort study". <i>Lancet, The</i> , 2013, 381, 289-291.	6.3	84
34	Thalamus, Brainstem and Salience Network Connectivity Changes During Propofol-Induced Sedation and Unconsciousness. <i>Brain Connectivity</i> , 2013, 3, 273-285.	0.8	112
35	Probing command following in patients with disorders of consciousness using a brain-computer interface. <i>Clinical Neurophysiology</i> , 2013, 124, 101-106.	0.7	217
36	A multiscale method for a robust detection of the default mode network. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1

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37	Dynamic Change of Global and Local Information Processing in Propofol-Induced Loss and Recovery of Consciousness. <i>PLoS Computational Biology</i> , 2013, 9, e1003271.	1.5	124
38	Electroencephalogram approximate entropy influenced by both age and sleep. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 33.	1.3	34
39	Detecting Consciousness with a Brain-Computer Interface. <i>Biosystems and Biorobotics</i> , 2013, , 1261-1264.	0.2	6
40	Changes in Effective Connectivity by Propofol Sedation. <i>PLoS ONE</i> , 2013, 8, e71370.	1.1	28
41	DTI based structural damage characterization for Disorders of Consciousness. , 2012, 2012, 1257-1260.		2
42	Brainâ€œcomputer interfacing in disorders of consciousness. <i>Brain Injury</i> , 2012, 26, 1510-1522.	0.6	74
43	Brain Connectivity in Disorders of Consciousness. <i>Brain Connectivity</i> , 2012, 2, 1-10.	0.8	85
44	Connectivity Changes Underlying Spectral EEG Changes during Propofol-Induced Loss of Consciousness. <i>Journal of Neuroscience</i> , 2012, 32, 7082-7090.	1.7	272
45	Electrophysiology and Disorders of Consciousness. , 2012, , 55-66.		1
46	Granger Causality Analysis of Steady-State Electroencephalographic Signals during Propofol-Induced Anaesthesia. <i>PLoS ONE</i> , 2012, 7, e29072.	1.1	138
47	Identifying the defaultâ€œmode component in spatial IC analyses of patients with disorders of consciousness. <i>Human Brain Mapping</i> , 2012, 33, 778-796.	1.9	128
48	Brain-Computer Interface: A Communication Aid?. , 2012, , 67-78.		1
49	Electrophysiological investigations of brain function in coma, vegetative and minimally conscious patients. <i>Archives Italiennes De Biologie</i> , 2012, 150, 122-39.	0.1	62
50	Resting-state EEG study of comatose patients: a connectivity and frequency analysis to find differences between vegetative and minimally conscious states. <i>Functional Neurology</i> , 2012, 27, 41-7.	1.3	118
51	Two Distinct Neuronal Networks Mediate the Awareness of Environment and of Self. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 570-578.	1.1	367
52	â€œRelevance vector machineâ€œ-consciousness classifier applied to cerebral metabolism of vegetative and locked-in patients. <i>NeuroImage</i> , 2011, 56, 797-808.	2.1	84
53	Hypnotic modulation of resting state fMRI default mode and extrinsic network connectivity. <i>Progress in Brain Research</i> , 2011, 193, 309-322.	0.9	93
54	Multimodal neuroimaging in patients with disorders of consciousness showing â€œfunctional hemispherectomyâ€œ. <i>Progress in Brain Research</i> , 2011, 193, 323-333.	0.9	44

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55	Propofol Anesthesia and Sleep: A High-Density EEG Study. <i>Sleep</i> , 2011, 34, 283-291.	0.6	326
56	fMRI Artefact Rejection and Sleep Scoring Toolbox. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-11.	1.1	47
57	Electrophysiological correlates of behavioural changes in vigilance in vegetative state and minimally conscious state. <i>Brain</i> , 2011, 134, 2222-2232.	3.7	128
58	Électrophysiologie des États de conscience altérée. , 2011, , 61-72.		0
59	Automated EEG entropy measurements in coma, vegetative state/unresponsive wakefulness syndrome and minimally conscious state. <i>Functional Neurology</i> , 2011, 26, 25-30.	1.3	95
60	Resting state activity in patients with disorders of consciousness. <i>Functional Neurology</i> , 2011, 26, 37-43.	1.3	57
61	Breakdown of within- and between-network Resting State Functional Magnetic Resonance Imaging Connectivity during Propofol-induced Loss of Consciousness. <i>Anesthesiology</i> , 2010, 113, 1038-1053.	1.3	576
62	Neuroimaging after coma. <i>Neuroradiology</i> , 2010, 52, 15-24.	1.1	54
63	Brain Connectivity in Pathological and Pharmacological Coma. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 160.	1.2	69
64	Default network connectivity reflects the level of consciousness in non-communicative brain-damaged patients. <i>Brain</i> , 2010, 133, 161-171.	3.7	723
65	Disorders of consciousness: Moving from passive to resting state and active paradigms. <i>Cognitive Neuroscience</i> , 2010, 1, 193-203.	0.6	21
66	Functional Neuroimaging Approaches to the Changing Borders of Consciousness. <i>Journal of Psychophysiology</i> , 2010, 24, 68-75.	0.3	5
67	Reaching across the abyss: recent advances in functional magnetic resonance imaging and their potential relevance to disorders of consciousness. <i>Progress in Brain Research</i> , 2009, 177, 261-274.	0.9	45
68	Les facteurs associés à un allaitement maternel prolongé au-delà de trois mois: une revue de la littérature. <i>Journal De Pédiatrie Et De Puericulture</i> , 2009, 22, 112-120.	0.0	16
69	Functional connectivity in the default network during resting state is preserved in a vegetative but not in a brain dead patient. <i>Human Brain Mapping</i> , 2009, 30, 2393-2400.	1.9	294
70	Bispectral index correlates with regional cerebral blood flow during sleep in distinct cortical and subcortical structures in humans. <i>Archives Italiennes De Biologie</i> , 2009, 147, 51-7.	0.1	17
71	Single-Trial EEG Source Reconstruction for Brain-Computer Interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1592-1601.	2.5	58
72	A twitch of consciousness: defining the boundaries of vegetative and minimally conscious states. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008, 79, 741-742.	0.9	6

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73	Modern Electrophysiological Methods for Brain-Computer Interfaces. Computational Intelligence and Neuroscience, 2007, 2007, 1-8.	1.1	8
74	Registration and Real-Time Visualization of Transcranial Magnetic Stimulation With 3-D MR Images. IEEE Transactions on Biomedical Engineering, 2004, 51, 1994-2005.	2.5	66
75	Registration of transcranial magnetic stimulation, a visualization tool for brain functions. , 0, , .		2
76	Brain-Computer Interfaces for Assessment and Communication in Disorders of Consciousness. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 181-214.	0.2	5