

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	Default network connectivity reflects the level of consciousness in non-communicative brain-damaged patients. <i>Brain</i> , 2010, 133, 161-171.	3.7	723
2	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
3	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
4	Propofol Anesthesia and Sleep: A High-Density EEG Study. <i>Sleep</i> , 2011, 34, 283-291.	0.6	326
5	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
6	Connectivity Changes Underlying Spectral EEG Changes during Propofol-Induced Loss of Consciousness. <i>Journal of Neuroscience</i> , 2012, 32, 7082-7090.	1.7	272
7	Complexity of Multi-Dimensional Spontaneous EEG Decreases during Propofol Induced General Anaesthesia. <i>PLoS ONE</i> , 2015, 10, e0133532.	1.1	231
8	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
9	Multiple fMRI system-level baseline connectivity is disrupted in patients with consciousness alterations. <i>Cortex</i> , 2014, 52, 35-46.	1.1	185
10	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
11	Granger Causality Analysis of Steady-State Electroencephalographic Signals during Propofol-Induced Anaesthesia. <i>PLoS ONE</i> , 2012, 7, e29072.	1.1	138
12	Electrophysiological correlates of behavioural changes in vigilance in vegetative state and minimally conscious state. <i>Brain</i> , 2011, 134, 2222-2232.	3.7	128
13	Identifying the default-mode component in spatial IC analyses of patients with disorders of consciousness. <i>Human Brain Mapping</i> , 2012, 33, 778-796.	1.9	128
14	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
15	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
16	Thalamus, Brainstem and Salience Network Connectivity Changes During Propofol-Induced Sedation and Unconsciousness. <i>Brain Connectivity</i> , 2013, 3, 273-285.	0.8	112
17	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
18	An independent SSVEP-based brain-computer interface in locked-in syndrome. <i>Journal of Neural Engineering</i> , 2014, 11, 035002.	1.8	99

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19	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
20	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
21	Brain Connectivity in Disorders of Consciousness. <i>Brain Connectivity</i> , 2012, 2, 1-10.	0.8	85
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	“Relevance vector machine”-consciousness classifier applied to cerebral metabolism of vegetative and locked-in patients. <i>NeuroImage</i> , 2011, 56, 797-808.	2.1	84
24	Reanalysis of “Bedside detection of awareness in the vegetative state: a cohort study”. <i>Lancet</i> , The, 2013, 381, 289-291.	6.3	84
25	Brain “computer interfacing in disorders of consciousness. <i>Brain Injury</i> , 2012, 26, 1510-1522.	0.6	74
26	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
27	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
28	Brain Connectivity in Pathological and Pharmacological Coma. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 160.	1.2	69
29	Registration and Real-Time Visualization of Transcranial Magnetic Stimulation With 3-D MR Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1994-2005.	2.5	66
30	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
31	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
32	Single-Trial EEG Source Reconstruction for Brain “Computer Interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1592-1601.	2.5	58
33	Resting state activity in patients with disorders of consciousness. <i>Functional Neurology</i> , 2011, 26, 37-43.	1.3	57
34	Neuroimaging after coma. <i>Neuroradiology</i> , 2010, 52, 15-24.	1.1	54
35	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
36	Electroencephalographic profiles for differentiation of disorders of consciousness. <i>BioMedical Engineering OnLine</i> , 2013, 12, 109.	1.3	48

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37	fMRI Artefact Rejection and Sleep Scoring Toolbox. Computational Intelligence and Neuroscience, 2011, 2011, 1-11.	1.1	47
38	Reaching across the abyss: recent advances in functional magnetic resonance imaging and their potential relevance to disorders of consciousness. Progress in Brain Research, 2009, 177, 261-274.	0.9	45
39	Multimodal neuroimaging in patients with disorders of consciousness showing "functional hemispherectomy". Progress in Brain Research, 2011, 193, 323-333.	0.9	44
40	Correlation between resting state fMRI total neuronal activity and PET metabolism in healthy controls and patients with disorders of consciousness. Brain and Behavior, 2016, 6, e00424.	1.0	40
41	"Look at my classifier's result": Disentangling unresponsive from (minimally) conscious patients. NeuroImage, 2017, 145, 288-303.	2.1	36
42	Electroencephalogram approximate entropy influenced by both age and sleep. Frontiers in Neuroinformatics, 2013, 7, 33.	1.3	34
43	Directed Information Transfer in Scalp Electroencephalographic Recordings. Clinical EEG and Neuroscience, 2014, 45, 33-39.	0.9	32
44	Volitional electromyographic responses in disorders of consciousness. Brain Injury, 2014, 28, 1171-1179.	0.6	32
45	Changes in Effective Connectivity by Propofol Sedation. PLoS ONE, 2013, 8, e71370.	1.1	28
46	A method for independent component graph analysis of resting state fMRI. Brain and Behavior, 2017, 7, e00626.	1.0	27
47	Hypnosis modulates behavioural measures and subjective ratings about external and internal awareness. Journal of Physiology (Paris), 2015, 109, 173-179.	2.1	24
48	Disorders of consciousness: Moving from passive to resting state and active paradigms. Cognitive Neuroscience, 2010, 1, 193-203.	0.6	21
49	Electromyographic decoding of response to command in disorders of consciousness. Neurology, 2016, 87, 2099-2107.	1.5	21
50	Detection of response to command using voluntary control of breathing in disorders of consciousness. Frontiers in Human Neuroscience, 2014, 8, 1020.	1.0	19
51	Real-time fMRI-based self-regulation of brain activation across different visual feedback presentations. Brain-Computer Interfaces, 2017, 4, 87-101.	0.9	19
52	Toward an Attention-Based Diagnostic Tool for Patients With Locked-in Syndrome. Clinical EEG and Neuroscience, 2018, 49, 122-135.	0.9	17
53	Bispectral index correlates with regional cerebral blood flow during sleep in distinct cortical and subcortical structures in humans. Archives Italiennes De Biologie, 2009, 147, 51-7.	0.1	17
54	Les facteurs associés à un allaitement maternel prolongé au-delà de trois mois: une revue de la littérature. Journal De Pédiatrie Et De Puericulture, 2009, 22, 112-120.	0.0	16

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55	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
56	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
57	Modern Electrophysiological Methods for Brain-Computer Interfaces. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-8.	1.1	8
58	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
59	Brain-Computer Interface for Assessing Consciousness in Severely Brain-Injured Patients. , 2015, , 133-148.		8
60	Consciousness and Unconsciousness. <i>Clinical EEG and Neuroscience</i> , 2014, 45, 4-5.	0.9	7
61	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
62	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
63	Detecting Consciousness with a Brain-Computer Interface. <i>Biosystems and Biorobotics</i> , 2013, , 1261-1264.	0.2	6
64	Functional Neuroimaging Approaches to the Changing Borders of Consciousness. <i>Journal of Psychophysiology</i> , 2010, 24, 68-75.	0.3	5
65	Brain-Computer Interfaces for Assessment and Communication in Disorders of Consciousness. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 0, , 181-214.	0.2	5
66	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
67	Registration of transcranial magnetic stimulation, a visualization tool for brain functions. , 0, , .		2
68	DTI based structural damage characterization for Disorders of Consciousness. , 2012, 2012, 1257-1260.		2
69	Brain-Computer Interfaces and Diagnosis. <i>The International Library of Ethics, Law and Technology</i> , 2014, , 39-47.	0.2	2
70	Electrophysiology and Disorders of Consciousness. , 2012, , 55-66.		1
71	Brain-Computer Interface: A Communication Aid?. , 2012, , 67-78.		1
72	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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73	Improving EEG-BCI analysis for low certainty subjects by using dictionary learning. , 2015, , .		1
74	Characterizing brain states with Granger causality. BMC Neuroscience, 2013, 14, .	0.8	0
75	Electrophysiology in Disorders of Consciousness: From Conventional EEG Visual Analysis to Brain-Computer Interfaces. , 2018, , 51-75.		0
76	Électrophysiologie des États de conscience altéré. , 2011, , 61-72.		0