Steven Laureys

List of Publications by Citations

538 papers	37,080 citations	98 h-index	178 g-index
593 ext. papers	45,215 ext. citations	5.7 avg, IF	7.27 L-index

#	Paper	IF	Citations
538	Detecting awareness in the vegetative state. *Science*, **2006**, 313, 1402	33.3	1037
537	Willful modulation of brain activity in disorders of consciousness. *New England Journal of Medicine*, **2010**, 362, 579-89	59.2	937
536	Brain response to one's own name in vegetative state, minimally conscious state, and locked-in syndrome. *Archives of Neurology*, **2006**, 63, 562-9		858
535	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. *Lancet Neurology, The*, **2017**, 16, 987-1048	24.1	851
534	Voluntary brain processing in disorders of consciousness. *Neurology*, **2008**, 71, 1614-20	6.5	775
533	Cerebral processing in the minimally conscious state. *Neurology*, **2004**, 63, 916-8	6.5	722
532	Brain function in coma, vegetative state, and related disorders. *Lancet Neurology, The*, **2004**, 3, 537-46	24.1	717
531	Diagnostic accuracy of the vegetative and minimally conscious state: clinical consensus versus standardized neurobehavioral assessment. *BMC Neurology*, **2009**, 9, 35	3.1	702
530	Unresponsive wakefulness syndrome: a new name for the vegetative state or apallic syndrome. *BMC Medicine*, **2010**, 8, 68	11.4	639
529	Default network connectivity reflects the level of consciousness in non-communicative brain-damaged patients. *Brain*, **2010**, 133, 161-71	11.2	574
528	A theoretically based index of consciousness independent of sensory processing and behavior. *Science Translational Medicine*, **2013**, 5, 198ra105	17.5	553
527	The neural correlate of (un)awareness: lessons from the vegetative state. *Trends in Cognitive Sciences*, **2005**, 9, 556-9	14	490
526	Breakdown of within- and between-network resting state functional magnetic resonance imaging connectivity during propofol-induced loss of consciousness. *Anesthesiology*, **2010**, 113, 1038-53	4.3	462
525	Bedside detection of awareness in the vegetative state: a cohort study. *Lancet, The*, **2011**, 378, 2088-94	40	440
524	Disorders of consciousness after acquired brain injury: the state of the science. *Nature Reviews Neurology*, **2014**, 10, 99-114	15	417
523	Baseline brain activity fluctuations predict somatosensory perception in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12187-92	11.5	412
522	Self-referential reflective activity and its relationship with rest: a PET study. *NeuroImage*, **2005**, 25, 616-24	7.9	403

521	Brain, conscious experience and the observing self. *Trends in Neurosciences*, **2003**, 26, 671-5	13.3	382
520	Cytology and functionally correlated circuits of human posterior cingulate areas. *NeuroImage*, **2006**, 29, 452-66	7.9	381
519	Preserved feedforward but impaired top-down processes in the vegetative state. *Science*, **2011**, 332, 858-62	33.3	370
518	From unresponsive wakefulness to minimally conscious PLUS and functional locked-in syndromes: recent advances in our understanding of disorders of consciousness. *Journal of Neurology*, **2011**, 258, 1373-84	5.5	370
517	Posterior cingulate, precuneal and retrosplenial cortices: cytology and components of the neural network correlates of consciousness. *Progress in Brain Research*, **2005**, 150, 205-17	2.9	358
516	Perception of pain in the minimally conscious state with PET activation: an observational study. *Lancet Neurology, The*, **2008**, 7, 1013-20	24.1	331
515	Impaired effective cortical connectivity in vegetative state: preliminary investigation using PET. *NeuroImage*, **1999**, 9, 377-82	7.9	314
514	Cortical Processing of Noxious Somatosensory Stimuli in the Persistent Vegetative State. *NeuroImage*, **2002**, 17, 732-741	7.9	306
513	Diagnostic precision of PET imaging and functional MRI in disorders of consciousness: a clinical validation study. *Lancet, The*, **2014**, 384, 514-22	40	299
512	Intrinsic brain activity in altered states of consciousness: how conscious is the default mode of brain function?. *Annals of the New York Academy of Sciences*, **2008**, 1129, 119-29	6.5	297
511	Restoration of thalamocortical connectivity after recovery from persistent vegetative state. *Lancet, The*, **2000**, 355, 1790-1	40	293
510	The locked-in syndrome : what is it like to be conscious but paralyzed and voiceless?. *Progress in Brain Research*, **2005**, 150, 495-511	2.9	287
509	Recovery of cortical effective connectivity and recovery of consciousness in vegetative patients. *Brain*, **2012**, 135, 1308-20	11.2	285
508	Two distinct neuronal networks mediate the awareness of environment and of self. *Journal of Cognitive Neuroscience*, **2011**, 23, 570-8	3.1	281
507	Auditory processing in severely brain injured patients: differences between the minimally conscious state and the persistent vegetative state. *Archives of Neurology*, **2004**, 61, 233-8		278
506	Neural mechanisms of antinociceptive effects of hypnosis. *Anesthesiology*, **2000**, 92, 1257-67	4.3	277
505	Coma and consciousness: paradigms (re)framed by neuroimaging. *NeuroImage*, **2012**, 61, 478-91	7.9	267
504	Propofol anesthesia and sleep: a high-density EEG study. *Sleep*, **2011**, 34, 283-91A	1.1	257

503	Cerebral response to patient's own name in the vegetative and minimally conscious states. *Neurology*, **2007**, 68, 895-9	6.5	254
502	Unresponsiveness unconsciousness. *Anesthesiology*, **2012**, 116, 946-59	4.3	254
501	When thoughts become action: an fMRI paradigm to study volitional brain activity in non-communicative brain injured patients. *NeuroImage*, **2007**, 36, 979-92	7.9	247
500	Sleeping brain, learning brain. The role of sleep for memory systems. *NeuroReport*, **2001**, 12, A111-24	1.7	246
499	Functional connectivity in the default network during resting state is preserved in a vegetative but not in a brain dead patient. *Human Brain Mapping*, **2009**, 30, 2393-400	5.9	245
498	Orbitofrontal cortex involvement in chronic analgesic-overuse headache evolving from episodic migraine. *Brain*, **2006**, 129, 543-50	11.2	224
497	Spasticity after stroke: physiology, assessment and treatment. *Brain Injury*, **2013**, 27, 1093-105	2.1	223
496	Connectivity changes underlying spectral EEG changes during propofol-induced loss of consciousness. *Journal of Neuroscience*, **2012**, 32, 7082-90	6.6	219
495	Auditory processing in the vegetative state. *Brain*, **2000**, 123 (Pt 8), 1589-601	11.2	216
494	Practice guideline update recommendations summary: Disorders of consciousness: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology; the American Congress of Rehabilitation Medicine; and the National Institute on Disability, Independent Living, and Rehabilitation Research. *Neurology*, **2018**, 91, 450-460	6.5	204
493	Brain functional integration decreases during propofol-induced loss of consciousness. *NeuroImage*, **2011**, 57, 198-205	7.9	198
492	Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine. *Current Biology*, **2015**, 25, 3099-105	6.3	189
491	tDCS in patients with disorders of consciousness: sham-controlled randomized double-blind study. *Neurology*, **2014**, 82, 1112-8	6.5	184
490	Intrinsic functional connectivity differentiates minimally conscious from unresponsive patients. *Brain*, **2015**, 138, 2619-31	11.2	183
489	Stratification of unresponsive patients by an independently validated index of brain complexity. *Annals of Neurology*, **2016**, 80, 718-729	9.4	180
488	A role for the default mode network in the bases of disorders of consciousness. *Annals of Neurology*, **2012**, 72, 335-43	9.4	171
487	Resting state networks and consciousness: alterations of multiple resting state network connectivity in physiological, pharmacological, and pathological consciousness States. *Frontiers in Psychology*, **2012**, 3, 295	3.4	171
486	Offline persistence of memory-related cerebral activity during active wakefulness. *PLoS Biology*, **2006**, 4, e100	9.7	169

485	Functional neuroanatomy underlying the clinical subcategorization of minimally conscious state patients. *Journal of Neurology*, **2012**, 259, 1087-98	5.5	166
484	Behavioral evaluation of consciousness in severe brain damage. *Progress in Brain Research*, **2005**, 150, 397-413	2.9	165
483	Human cognition during REM sleep and the activity profile within frontal and parietal cortices: a reappraisal of functional neuroimaging data. *Progress in Brain Research*, **2005**, 150, 219-27	2.9	164
482	Probing command following in patients with disorders of consciousness using a brain-computer interface. *Clinical Neurophysiology*, **2013**, 124, 101-6	4.3	154
481	The vegetative state. *BMJ, The*, **2010**, 341, c3765	5.9	150
480	Human consciousness is supported by dynamic complex patterns of brain signal coordination. *Science Advances*, **2019**, 5, eaat7603	14.3	147
479	Auditory resting-state network connectivity in tinnitus: a functional MRI study. *PLoS ONE*, **2012**, 7, e36222	3.7	145
478	Connectivity graph analysis of the auditory resting state network in tinnitus. *Brain Research*, **2012**, 1485, 10-21	3.7	142
477	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. *Lancet Neurology, The*, **2019**, 18, 923-934	24.1	139
476	Complexity of Multi-Dimensional Spontaneous EEG Decreases during Propofol Induced General Anaesthesia. *PLoS ONE*, **2015**, 10, e0133532	3.7	138
475	Cerebral metabolism during vegetative state and after recovery to consciousness. *Journal of Neurology, Neurosurgery and Psychiatry*, **1999**, 67, 121	5.5	137
474	Hierarchical clustering of brain activity during human nonrapid eye movement sleep. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 5856-61	11.5	136
473	Cerebral correlates of delta waves during non-REM sleep revisited. *NeuroImage*, **2005**, 28, 14-21	7.9	136
472	Functional neuroimaging applications for assessment and rehabilitation planning in patients with disorders of consciousness. *Archives of Physical Medicine and Rehabilitation*, **2006**, 87, S67-76	2.8	136
471	Increased cerebral functional connectivity underlying the antinociceptive effects of hypnosis. *Cognitive Brain Research*, **2003**, 17, 255-62		135
470	The repetition of behavioral assessments in diagnosis of disorders of consciousness. *Annals of Neurology*, **2017**, 81, 883-889	9.4	134
469	Multiple fMRI system-level baseline connectivity is disrupted in patients with consciousness alterations. *Cortex*, **2014**, 52, 35-46	3.8	134
468	Neural correlates of consciousness in patients who have emerged from a minimally conscious state: a cross-sectional multimodal imaging study. *Lancet Neurology, The*, **2016**, 15, 830-842	24.1	127

467	Brain networks predict metabolism, diagnosis and prognosis at the bedside in disorders of consciousness. *Brain*, **2017**, 140, 2120-2132	11.2	126
466	Consciousness in humans and non-human animals: recent advances and future directions. *Frontiers in Psychology*, **2013**, 4, 625	3.4	123
465	Neural mechanisms involved in the detection of our first name: a combined ERPs and PET study. *Neuropsychologia*, **2005**, 43, 12-9	3.2	123
464	Life can be worth living in locked-in syndrome. *Progress in Brain Research*, **2009**, 177, 339-51	2.9	121
463	Consciousness supporting networks. *Current Opinion in Neurobiology*, **2013**, 23, 239-44	7.6	120
462	Functional neuroanatomy of the hypnotic state. *Journal of Physiology (Paris)*, **2006**, 99, 463-9		120
461	A human brain network derived from coma-causing brainstem lesions. *Neurology*, **2016**, 87, 2427-2434	6.5	118
460	Science and society: death, unconsciousness and the brain. *Nature Reviews Neuroscience*, **2005**, 6, 899-909	23.5	118
459	Attitudes towards end-of-life issues in disorders of consciousness: a European survey. *Journal of Neurology*, **2011**, 258, 1058-65	5.5	116
458	A survey on self-assessed well-being in a cohort of chronic locked-in syndrome patients: happy majority, miserable minority. *BMJ Open*, **2011**, 1, e000039	3	116
457	The Nociception Coma Scale: a new tool to assess nociception in disorders of consciousness. *Pain*, **2010**, 148, 215-219	8	115
456	Central modulation in cluster headache patients treated with occipital nerve stimulation: an FDG-PET study. *BMC Neurology*, **2011**, 11, 25	3.1	112
455	Resting-state Network-specific Breakdown of Functional Connectivity during Ketamine Alteration of Consciousness in Volunteers. *Anesthesiology*, **2016**, 125, 873-888	4.3	111
454	Self-consciousness in non-communicative patients. *Consciousness and Cognition*, **2007**, 16, 722-41; discussion 742-5	2.6	111
453	Granger causality analysis of steady-state electroencephalographic signals during propofol-induced anaesthesia. *PLoS ONE*, **2012**, 7, e29072	3.7	104
452	Assessment of white matter injury and outcome in severe brain trauma: a prospective multicenter cohort. *Anesthesiology*, **2012**, 117, 1300-10	4.3	104
451	A French validation study of the Coma Recovery Scale-Revised (CRS-R). *Brain Injury*, **2008**, 22, 786-92	2.1	104
450	Identifying the default-mode component in spatial IC analyses of patients with disorders of consciousness. *Human Brain Mapping*, **2012**, 33, 778-96	5.9	103

449	Electrophysiological correlates of behavioural changes in vigilance in vegetative state and minimally conscious state. *Brain*, **2011**, 134, 2222-32	11.2	103
448	Robust EEG-based cross-site and cross-protocol classification of states of consciousness. *Brain*, **2018**, 141, 3179-3192	11.2	103
447	Resting-state EEG study of comatose patients: a connectivity and frequency analysis to find differences between vegetative and minimally conscious states. *Functional Neurology*, **2012**, 27, 41-7	2.2	102
446	Cognitive function in the locked-in syndrome. *Journal of Neurology*, **2008**, 255, 323-30	5.5	101
445	European Academy of Neurology guideline on the diagnosis of coma and other disorders of consciousness. *European Journal of Neurology*, **2020**, 27, 741-756	6	100
444	Large-scale signatures of unconsciousness are consistent with a departure from critical dynamics. *Journal of the Royal Society Interface*, **2016**, 13, 20151027	4.1	100
443	Short article one's own face is hard to ignore. *Quarterly Journal of Experimental Psychology*, **2006**, 59, 46-52	1.8	100
442	Cerebral processing of auditory and noxious stimuli in severely brain injured patients: differences between VS and MCS. *Neuropsychological Rehabilitation*, **2005**, 15, 283-9	3.1	99
441	Thalamic and extrathalamic mechanisms of consciousness after severe brain injury. *Annals of Neurology*, **2015**, 78, 68-76	9.4	98
440	Dynamic change of global and local information processing in propofol-induced loss and recovery of consciousness. *PLoS Computational Biology*, **2013**, 9, e1003271	5	97
439	Detecting consciousness in a total locked-in syndrome: an active event-related paradigm. *Neurocase*, **2009**, 15, 271-7	0.8	97
438	Measuring consciousness in severely damaged brains. *Annual Review of Neuroscience*, **2014**, 37, 457-78	17	93
437	Biased binomial assessment of cross-validated estimation of classification accuracies illustrated in diagnosis predictions. *NeuroImage: Clinical*, **2014**, 4, 687-94	5.3	92
436	Metabolic activity in external and internal awareness networks in severely brain-damaged patients. *Journal of Rehabilitation Medicine*, **2012**, 44, 487-94	3.4	89
435	Another kind of 'BOLD Response': answering multiple-choice questions via online decoded single-trial brain signals. *Progress in Brain Research*, **2009**, 177, 275-92	2.9	87
434	Tracking the recovery of consciousness from coma. *Journal of Clinical Investigation*, **2006**, 116, 1823-5	15.9	86
433	Mismatch negativity to the patient's own name in chronic disorders of consciousness. *Neuroscience Letters*, **2008**, 448, 24-8	3.3	85
432	Does the FOUR score correctly diagnose the vegetative and minimally conscious states?. *Annals of Neurology*, **2006**, 60, 744-5; author reply 745	9.4	85

431	What is it like to be vegetative or minimally conscious?. *Current Opinion in Neurology*, **2007**, 20, 609-13	7.1	85
430	Diagnostic and prognostic use of bispectral index in coma, vegetative state and related disorders. *Brain Injury*, **2008**, 22, 926-31	2.1	84
429	Relationship between etiology and covert cognition in the minimally conscious state. *Neurology*, **2012**, 78, 816-22	6.5	83
428	Using functional magnetic resonance imaging to detect covert awareness in the vegetative state. *Archives of Neurology*, **2007**, 64, 1098-102		83
427	Automated EEG entropy measurements in coma, vegetative state/unresponsive wakefulness syndrome and minimally conscious state. *Functional Neurology*, **2011**, 26, 25-30	2.2	83
426	Altered network properties of the fronto-parietal network and the thalamus in impaired consciousness. *NeuroImage: Clinical*, **2014**, 4, 240-8	5.3	82
425	Neuroimaging activation studies in the vegetative state: predictors of recovery?. *Clinical Medicine*, **2008**, 8, 502-7	1.9	82
424	Thalamus, brainstem and salience network connectivity changes during propofol-induced sedation and unconsciousness. *Brain Connectivity*, **2013**, 3, 273-85	2.7	80
423	Diffusion tensor imaging to predict long-term outcome after cardiac arrest: a bicentric pilot study. *Anesthesiology*, **2012**, 117, 1311-21	4.3	80
422	Anterior cingulate activity and the self in disorders of consciousness. *Human Brain Mapping*, **2010**, 31, 1993-2002	5.9	79
421	Measures of metabolism and complexity in the brain of patients with disorders of consciousness. *NeuroImage: Clinical*, **2017**, 14, 354-362	5.3	78
420	Assessment of visual pursuit in post-comatose states: use a mirror. *Journal of Neurology, Neurosurgery and Psychiatry*, **2008**, 79, 223	5.5	78
419	Quantifying cortical EEG responses to TMS in (un)consciousness. *Clinical EEG and Neuroscience*, **2014**, 45, 40-9	2.3	77
418	An independent SSVEP-based brain-computer interface in locked-in syndrome. *Journal of Neural Engineering*, **2014**, 11, 035002	5	77
417	Recent advances in disorders of consciousness: focus on the diagnosis. *Brain Injury*, **2014**, 28, 1141-50	2.1	76
416	Regional cerebral metabolic patterns demonstrate the role of anterior forebrain mesocircuit dysfunction in the severely injured brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6473-8	11.5	76
415	Pain and non-pain processing during hypnosis: a thulium-YAG event-related fMRI study. *NeuroImage* , **2009**, 47, 1047-54	7.9	76
414	Therapeutic interventions in patients with prolonged disorders of consciousness. *Lancet Neurology, The*, **2019**, 18, 600-614	24.1	75

413	Hypnotic modulation of resting state fMRI default mode and extrinsic network connectivity. *Progress in Brain Research*, **2011**, 193, 309-22	2.9	74
412	Residual cognitive function in comatose, vegetative and minimally conscious states. *Current Opinion in Neurology*, **2005**, 18, 726-33	7.1	74
411	Mapping the functional connectome traits of levels of consciousness. *NeuroImage*, **2017**, 148, 201-211	7.9	73
410	Disorders of consciousness: responding to requests for novel diagnostic and therapeutic interventions. *Lancet Neurology, The*, **2012**, 11, 732-8	24.1	73
409	Quantitative rates of brain glucose metabolism distinguish minimally conscious from vegetative state patients. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 58-65	7.3	72
408	Neurophysiology of hypnosis. *Neurophysiologie Clinique*, **2014**, 44, 343-53	2.7	72
407	Automated analysis of background EEG and reactivity during therapeutic hypothermia in comatose patients after cardiac arrest. *Clinical EEG and Neuroscience*, **2014**, 45, 6-13	2.3	72
406	The self and its resting state in consciousness: an investigation of the vegetative state. *Human Brain Mapping*, **2014**, 35, 1997-2008	5.9	72
405	The cognitive modulation of pain: hypnosis- and placebo-induced analgesia. *Progress in Brain Research*, **2005**, 150, 251-69	2.9	72
404	Controlled clinical trial of repeated prefrontal tDCS in patients with chronic minimally conscious state. *Brain Injury*, **2017**, 31, 466-474	2.1	71
403	Practice Guideline Update Recommendations Summary: Disorders of Consciousness: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology; the American Congress of Rehabilitation Medicine; and the National Institute on Disability, Independent Living, and Rehabilitation Research. *Archives of Physical Medicine and Rehabilitation*, **2018**, 99, 1699-1709	2.8	71
402	Sleep in disorders of consciousness. *Sleep Medicine Reviews*, **2010**, 14, 97-105	10.2	71
401	Cortical processing of noxious somatosensory stimuli in the persistent vegetative state. *NeuroImage*, **2002**, 17, 732-41	7.9	71
400	Brain connectivity in disorders of consciousness. *Brain Connectivity*, **2012**, 2, 1-10	2.7	69
399	A sensitive scale to assess nociceptive pain in patients with disorders of consciousness. *Journal of Neurology, Neurosurgery and Psychiatry*, **2012**, 83, 1233-7	5.5	69
398	Neuroimaging and disorders of consciousness: envisioning an ethical research agenda. *American Journal of Bioethics*, **2008**, 8, 3-12	1.1	69
397	Posterior cingulate cortex-related co-activation patterns: a resting state FMRI study in propofol-induced loss of consciousness. *PLoS ONE*, **2014**, 9, e100012	3.7	69
396	The vegetative state: prevalence, misdiagnosis, and treatment limitations. *Journal of the American Medical Directors Association*, **2015**, 16, 85.e9-85.e14	5.9	68

395	Fluorodopa uptake and glucose metabolism in early stages of corticobasal degeneration. *Journal of Neurology*, **1999**, 246, 1151-8	5.5	68
394	The problem of aphasia in the assessment of consciousness in brain-damaged patients. *Progress in Brain Research*, **2009**, 177, 49-61	2.9	67
393	Cortical reorganization in an astronaut's brain after long-duration spaceflight. *Brain Structure and Function*, **2016**, 221, 2873-6	4	66
392	The effect of spaceflight and microgravity on the human brain. *Journal of Neurology*, **2017**, 264, 18-22	5.5	66
391	Common resting brain dynamics indicate a possible mechanism underlying zolpidem response in severe brain injury. *ELife*, **2013**, 2, e01157	8.9	66
390	The changing spectrum of coma. *Nature Clinical Practice Neurology*, **2008**, 4, 544-6		66
389	Different beliefs about pain perception in the vegetative and minimally conscious states: a European survey of medical and paramedical professionals. *Progress in Brain Research*, **2009**, 177, 329-38	2.9	65
388	Cognitive event-related potentials in comatose and post-comatose states. *Neurocritical Care*, **2008**, 8, 262-70	3.3	65
387	Characteristics of near-death experiences memories as compared to real and imagined events memories. *PLoS ONE*, **2013**, 8, e57620	3.7	65
386	Physiological feelings. *Neuroscience and Biobehavioral Reviews*, **2019**, 103, 267-304	9	64
385	Comprehensive systematic review update summary: Disorders of consciousness: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology; the American Congress of Rehabilitation Medicine; and the National Institute on Disability, Independent Living, and Rehabilitation Research. *Neurology*, **2018**, 91, 461-470	6.5	64
384	Visual fixation in the vegetative state: an observational case series PET study. *BMC Neurology*, **2010**, 10, 35	3.1	64
383	How should functional imaging of patients with disorders of consciousness contribute to their clinical rehabilitation needs?. *Current Opinion in Neurology*, **2006**, 19, 520-7	7.1	64
382	Use of brain diffusion tensor imaging for the prediction of long-term neurological outcomes in patients after cardiac arrest: a multicentre, international, prospective, observational, cohort study. *Lancet Neurology, The*, **2018**, 17, 317-326	24.1	63
381	Functional neuroanatomy of disorders of consciousness. *Epilepsy and Behavior*, **2014**, 30, 28-32	3.2	63
380	DMT Models the Near-Death Experience. *Frontiers in Psychology*, **2018**, 9, 1424	3.4	62
379	Brain-computer interfacing in disorders of consciousness. *Brain Injury*, **2012**, 26, 1510-22	2.1	62
378	"Relevance vector machine" consciousness classifier applied to cerebral metabolism of vegetative and locked-in patients. *NeuroImage*, **2011**, 56, 797-808	7.9	62

377	The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine. *NeuroImage*, **2019**, 189, 631-644	7.9	62
376	Brain Tissue-Volume Changes in Cosmonauts. *New England Journal of Medicine*, **2018**, 379, 1678-1680	59.2	62
375	Sleep in the unresponsive wakefulness syndrome and minimally conscious state. *Journal of Neurotrauma*, **2013**, 30, 339-46	5.4	61
374	A vibrotactile p300-based brain-computer interface for consciousness detection and communication. *Clinical EEG and Neuroscience*, **2014**, 45, 14-21	2.3	61
373	The Minimal Energetic Requirement of Sustained Awareness after Brain Injury. *Current Biology*, **2016**, 26, 1494-9	6.3	61
372	Cerebral functional connectivity periodically (de)synchronizes with anatomical constraints. *Brain Structure and Function*, **2016**, 221, 2985-97	4	59
371	Clinical Response to tDCS Depends on Residual Brain Metabolism´and Grey Matter Integrity in Patients With Minimally´Conscious State. *Brain Stimulation*, **2015**, 8, 1116-23	5.1	59
370	Brain ventricular volume changes induced by long-duration spaceflight. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 10531-10536	11.5	58
369	Cognitive processes in disorders of consciousness as revealed by EEG time-frequency analyses. *Clinical Neurophysiology*, **2011**, 122, 2177-84	4.3	57
368	Brain connectivity in pathological and pharmacological coma. *Frontiers in Systems Neuroscience*, **2010**, 4, 160	3.5	57
367	Pupil responses allow communication in locked-in syndrome patients. *Current Biology*, **2013**, 23, R647-8	6.3	56
366	Comparison of the Full Outline of UnResponsiveness and Glasgow Liege Scale/Glasgow Coma Scale in an intensive care unit population. *Neurocritical Care*, **2011**, 15, 447-53	3.3	56
365	Consciousness and cerebral baseline activity fluctuations. *Human Brain Mapping*, **2008**, 29, 868-74	5.9	56
364	On the cerebral origin of EEG responses to TMS: insights from severe cortical lesions. *Brain Stimulation*, **2015**, 8, 142-9	5.1	55
363	Pain issues in disorders of consciousness. *Brain Injury*, **2014**, 28, 1202-8	2.1	55
362	Detecting awareness in patients with disorders of consciousness using a hybrid brain-computer interface. *Journal of Neural Engineering*, **2014**, 11, 056007	5	54
361	Measuring the effect of amantadine in chronic anoxic minimally conscious state. *Journal of Neurology, Neurosurgery and Psychiatry*, **2008**, 79, 225-7	5.5	53
360	Resting state activity in patients with disorders of consciousness. *Functional Neurology*, **2011**, 26, 37-43	2.2	53

359	Sleep-like cortical OFF-periods disrupt causality and complexity in the brain of unresponsive wakefulness syndrome patients. *Nature Communications*, **2018**, 9, 4427	17.4	53
358	EEG ultradian rhythmicity differences in disorders of consciousness during wakefulness. *Journal of Neurology*, **2016**, 263, 1746-60	5.5	52
357	Dualism persists in the science of mind. *Annals of the New York Academy of Sciences*, **2009**, 1157, 1-9	6.5	51
356	Disorders of consciousness: what's in a name?. *NeuroRehabilitation*, **2011**, 28, 3-14	2	51
355	What about pain in disorders of consciousness?. *AAPS Journal*, **2012**, 14, 437-44	3.7	50
354	Locked-in syndrome in children: report of five cases and review of the literature. *Pediatric Neurology*, **2009**, 41, 237-46	2.9	50
353	Cerebral metabolism before and after external trigeminal nerve stimulation in episodic migraine. *Cephalalgia*, **2017**, 37, 881-891	6.1	49
352	Limbic hyperconnectivity in the vegetative state. *Neurology*, **2013**, 81, 1417-24	6.5	49
351	Palliative sedation: why we should be more concerned about the risks that patients experience an uncomfortable death. *Pain*, **2013**, 154, 1505-1508	8	48
350	The vegetative state/unresponsive wakefulness syndrome: a systematic review of prevalence studies. *European Journal of Neurology*, **2014**, 21, 1361-8	6	48
349	From armchair to wheelchair: how patients with a locked-in syndrome integrate bodily changes in experienced identity. *Consciousness and Cognition*, **2012**, 21, 431-7	2.6	48
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