

# Danilo Menicucci

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

2,010  
citations

331670

21  
h-index

276875

41  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2248  
citing authors

#	ARTICLE	IF	CITATIONS
1	How Breath-Control Can Change Your Life: A Systematic Review on Psycho-Physiological Correlates of Slow Breathing. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 353.	2.0	294
2	Deriving the respiratory sinus arrhythmia from the heartbeat time series using empirical mode decomposition. <i>Chaos, Solitons and Fractals</i> , 2004, 20, 171-177.	5.1	140
3	The dynamics of EEG gamma responses to unpleasant visual stimuli: From local activity to functional connectivity. <i>NeuroImage</i> , 2012, 60, 922-932.	4.2	123
4	Nonlinear Indices of Heart Rate Variability in Chronic Heart Failure Patients: Redundancy and Comparative Clinical Value. <i>Journal of Cardiovascular Electrophysiology</i> , 2007, 18, 425-433.	1.7	121
5	Spontaneous brain activity as a source of ideal noise. <i>Physical Review E</i> , 2009, 80, 061914.	2.1	100
6	RELICA: A method for estimating the reliability of independent components. <i>NeuroImage</i> , 2014, 103, 391-400.	4.2	76
7	Combining electroencephalographic activity and instantaneous heart rate for assessing brain-heart dynamics during visual emotional elicitation in healthy subjects. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150176.	3.4	74
8	How stressful are 105 days of isolation? Sleep EEG patterns and tonic cortisol in healthy volunteers simulating manned flight to Mars. <i>International Journal of Psychophysiology</i> , 2014, 93, 211-219.	1.0	73
9	Fractal complexity in spontaneous EEG metastable-state transitions: new vistas on integrated neural dynamics. <i>Frontiers in Physiology</i> , 2010, 1, 128.	2.8	66
10	Functional Structure of Spontaneous Sleep Slow Oscillation Activity in Humans. <i>PLoS ONE</i> , 2009, 4, e7601.	2.5	54
11	Disentangling different functional roles of evoked K-complex components: Mapping the sleeping brain while quenching sensory processing. <i>NeuroImage</i> , 2014, 86, 433-445.	4.2	48
12	Early subclinical increase in pulmonary water content in athletes performing sustained heavy exercise at sea level: ultrasound lung comet-tail evidence. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H2161-H2167.	3.2	45
13	Evaluation of latent links between irritable bowel syndrome and sleep quality. <i>World Journal of Gastroenterology</i> , 2011, 17, 5089.	3.3	43
14	Self-organized dynamical complexity in human wakefulness and sleep: Different critical brain-activity feedback for conscious and unconscious states. <i>Physical Review E</i> , 2015, 92, 032808.	2.1	40
15	Cardiovascular changes during SCUBA diving: an underwater Doppler echocardiographic study. <i>Acta Physiologica</i> , 2013, 209, 62-68.	3.8	33
16	Ultra-slow mechanical stimulation of olfactory epithelium modulates consciousness by slowing cerebral rhythms in humans. <i>Scientific Reports</i> , 2018, 8, 6581.	3.3	32
17	A Smart Bed for Non-Obtrusive Sleep Analysis in Real World Context. <i>IEEE Access</i> , 2020, 8, 45664-45673.	4.2	32
18	Thalamic contribution to Sleep Slow Oscillation features in humans: A single case cross sectional EEG study in Fatal Familial Insomnia. <i>Sleep Medicine</i> , 2012, 13, 946-952.	1.6	28

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19	Brain Responses to Emotional Stimuli During Breath Holding and Hypoxia: An Approach Based on the Independent Component Analysis. <i>Brain Topography</i> , 2014, 27, 771-785.	1.8	28
20	Textile-Based Pressure Sensing Matrix for In-Bed Monitoring of Subject Sleeping Posture and Breathing Activity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2552.	2.5	25
21	ErpICASSO: A tool for reliability estimates of independent components in EEG event-related analysis. , 2012, 2012, 368-71.		23
22	Fragments of wake-like activity frame down-states of sleep slow oscillations in humans: New vistas for studying homeostatic processes during sleep. <i>International Journal of Psychophysiology</i> , 2013, 89, 151-157.	1.0	23
23	Metacognitive beliefs relate specifically to sleep quality in primary insomnia: a pilot study. <i>Sleep Medicine</i> , 2014, 15, 918-922.	1.6	23
24	Complex intermittency blurred by noise: Theory and application to neural dynamics. <i>Physical Review E</i> , 2010, 82, 015103.	2.1	22
25	Role of relaxation and specific suggestions in hypnotic emotional numbing. <i>International Journal of Psychophysiology</i> , 2007, 63, 125-132.	1.0	21
26	REMOV: EEG artifacts removal methods during Lokomat lower-limb rehabilitation. , 2012, , .		21
27	SINGULAR SPECTRUM ANALYSIS AND ADAPTIVE FILTERING ENHANCE THE FUNCTIONAL CONNECTIVITY ANALYSIS OF RESTING STATE fMRI DATA. <i>International Journal of Neural Systems</i> , 2014, 24, 1450010.	5.2	21
28	Mind-body relationships in elite apnea divers during breath holding: a study of autonomic responses to acute hypoxemia. <i>Frontiers in Neuroengineering</i> , 2012, 5, 4.	4.8	20
29	Sleep unconsciousness and breakdown of serial critical intermittency: New vistas on the global workspace. <i>Chaos, Solitons and Fractals</i> , 2013, 55, 32-43.	5.1	20
30	Artificial Neural Networks for nonlinear regression and classification. , 2010, , .		19
31	Cardiovascular response to acute hypoxemia induced by prolonged breath holding in air. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H449-H455.	3.2	18
32	Pial arteriolar vasomotion changes during cortical activation in rats. <i>NeuroImage</i> , 2007, 38, 25-33.	4.2	17
33	Likeness-Based Detection of Sleep Slow Oscillations in Normal and Altered Sleep Conditions: Application on Low-Density EEG Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 363-372.	4.2	17
34	Scaling and intermittency of brain events as a manifestation of consciousness. , 2013, , .		17
35	Systematic Review of Studies on Subliminal Exposure to Phobic Stimuli: Integrating Therapeutic Models for Specific Phobias. <i>Frontiers in Neuroscience</i> , 2021, 15, 654170.	2.8	16
36	Enhancing Qualities of Consciousness during Online Learning via Multisensory Interactions. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2021, 11, 57.	2.1	14

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37	Lavender aromatherapy: A systematic review from essential oil quality and administration methods to cognitive enhancing effects. <i>Applied Psychology: Health and Well-Being</i> , 2022, 14, 663-690.	3.0	13
38	Linking Sleep to Externalizing Behavioral Difficulties: A Longitudinal Psychometric Survey in a Cohort of Italian School-Age Children. <i>Journal of Primary Prevention</i> , 2019, 40, 231-241.	1.6	12
39	Sleep slow oscillations favour local cortical plasticity underlying the consolidation of reinforced procedural learning in human sleep. <i>Journal of Sleep Research</i> , 2020, 29, e13117.	3.2	12
40	Objective selection of EEG late potentials through residual dependence estimation of independent components. <i>Physiological Measurement</i> , 2009, 30, 779-794.	2.1	11
41	Innovative approach to interpret the variability of biomarkers after ultra-endurance exercise: the multifactorial analysis. <i>Biomarkers in Medicine</i> , 2014, 8, 881-891.	1.4	11
42	Local Gamma Activity During Non-REM Sleep in the Context of Sensory Evoked K-Complexes. <i>Frontiers in Neuroscience</i> , 2019, 13, 1094.	2.8	11
43	Linking Sleep Slow Oscillation with consciousness theories: new vistas on slow wave Sleep and unconsciousness. <i>Archives Italiennes De Biologie</i> , 2015, 153, 135-43.	0.4	11
44	Interactions between immune, stress-related hormonal and cardiovascular systems following strenuous physical exercise. <i>Archives Italiennes De Biologie</i> , 2013, 151, 126-36.	0.4	11
45	Inefficient stimulus processing at encoding affects formation of high-order general representation: A study on cross-modal word-stem completion task. <i>Brain Research</i> , 2015, 1622, 386-396.	2.2	10
46	Neural Correlates of Non-ordinary States of Consciousness in Pranayama Practitioners: The Role of Slow Nasal Breathing. <i>Frontiers in Systems Neuroscience</i> , 2022, 16, 803904.	2.5	10
47	The neurophysiological basis of excessive daytime sleepiness: suggestions of an altered state of consciousness. <i>Sleep and Breathing</i> , 2020, 24, 15-23.	1.7	9
48	Moving Auto-Correlation Window Approach for Heart Rate Estimation in Ballistocardiography Extracted by Mattress-Integrated Accelerometers. <i>Sensors</i> , 2020, 20, 5438.	3.8	9
49	Task-independent Electrophysiological Correlates of Motor Imagery Ability from Kinaesthetic and Visual Perspectives. <i>Neuroscience</i> , 2020, 443, 176-187.	2.3	9
50	Detection and removal of ocular artifacts from EEG signals for an automated REM sleep analysis. , 2013, 2013, 5079-82.		8
51	Unconscious processing of subliminal stimuli in panic disorder: A systematic review and meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 128, 136-151.	6.1	8
52	Heart rate variability in subjects with different hypnotic susceptibility receiving nociceptive stimulation and suggestions of analgesia. , 2005, 2005, 6996-9.		7
53	Noisy cooperative intermittent processes: From blinking quantum dots to human consciousness. <i>Journal of Physics: Conference Series</i> , 2011, 306, 012027.	0.4	7
54	Looking for a precursor of spontaneous Sleep Slow Oscillations in human sleep: The role of the sigma activity. <i>International Journal of Psychophysiology</i> , 2015, 97, 99-107.	1.0	6

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55	ADAPTIVE FILTERING AND RANDOM VARIABLES COEFFICIENT FOR ANALYZING FUNCTIONAL MAGNETIC RESONANCE IMAGING DATA. International Journal of Neural Systems, 2013, 23, 1350011.	5.2	5
56	Perceptually Visible but Emotionally Subliminal Stimuli to Improve Exposure Therapies. Brain Sciences, 2022, 12, 867.	2.3	5
57	Comparative study of morphological ECG features classifiers: An application on athletes undergone to acute physical stress. , 2011, , .		4
58	The Consciousness State of Traditional Nidra Yoga/Modern Yoga Nidra: Phenomenological Characterization and Preliminary Insights from an EEG Study. International Journal of Yoga Therapy, 2021, 31, .	0.7	4
59	Is temporal scaling at the basis of allometry?. Physics of Life Reviews, 2013, 10, 233-234.	2.8	3
60	A Classification method for eye movements direction during REM sleep trained on wake electro-oculographic recordings. , 2015, 2015, 370-3.		3
61	Psycho-physiological tele-monitoring of human operators in commercial diving: The Life Support System in the SUONO project. , 2015, 2015, 194-7.		3
62	Prolonged and short epileptiform discharges have an opposite relationship with the sleep-wake cycle in patients with JME: Implications for EEG recording protocols. Epilepsy and Behavior, 2021, 122, 108226.	1.7	3
63	Late positive event-related potentials enhancement through independent component analysis clustering. , 2008, , .		2
64	Brain dynamics during emotion elicitation in healthy subjects: An EEG study. , 2015, , .		2
65	Attention-Dependent Physiological Correlates in Sleep-Deprived Young Healthy Humans. Behavioral Sciences (Basel, Switzerland), 2021, 11, 22.	2.1	2
66	The PERFORM Mask: A Psychophysiological sEnsoRs Mask FOr Real-Life Cognitive Monitoring. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 86-93.	0.3	2
67	RENEWAL PROCESSES IN THE CRITICAL BRAIN. , 2011, , .		2
68	A Systematic Review on the Role of Substance Consumption in Work-Related Road Traffic Crashes Reveals the Importance of Biopsychosocial Factors in Prevention. Behavioral Sciences (Basel,) Tj ETQq0 0 0 rgBT /Ozarllock 1Q2Tf 50 217		2
69	A Minimal Model for the Respiratory Sinus Arrhythmia. Biological Cybernetics, 2006, 94, 225-232.	1.3	1
70	Event-driven power-law relaxation in weak turbulence: A liquid crystals mesoscopic experiment bridging quantum dots and the integration theory for the brain. Journal of Physics: Conference Series, 2009, 174, 012070.	0.4	1
71	Adaptive filtering for removing nonstationary physiological noise from resting state fMRI BOLD signals. , 2011, , .		1
72	Brain-heart linear and nonlinear dynamics during visual emotional elicitation in healthy subjects. , 2016, 2016, 5497-5500.		1

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73	Brain connectivity is altered by extreme physical exercise during non-REM sleep and wakefulness: indication from eeg and fMRI studies. Archives Italiennes De Biologie, 2017, 154, 103-117.	0.4	1
74	A SmartBed for Non-obtrusive Physiological Monitoring During Sleep: The LAID Project. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 153-162.	0.3	1
75	Residual Dependency Estimation of Independent Components Applied to EEG Event Related Potentials Associated with Emotional Processing. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3860-3.	0.5	0
76	Extraction and Synchronization of BOLD Spontaneous Oscillations Using Singular Spectrum Analysis. , 2009, , .		0
77	Pattern recognition with adaptive-thresholds for sleep spindle in high density EEG signals. , 2015, 2015, 594-7.		0
78	Persistently Elevated Heart Rate Alters EEG Patterns and Locomotor Behavior in Mice. FASEB Journal, 2021, 35, .	0.5	0
79	The changing face of cushing disease in the 21st century: mood disorders and body image perception. Endocrine Abstracts, 0, , .	0.0	0