

**SIMONE
SARASSO, PhD**
Curriculum Vitae

PERSONAL INFORMATION

Name	SIMONE SARASSO
Contact Address	Università degli Studi di Milano Dipartimento di Scienze Biomediche e Cliniche "L. Sacco" Via G.B. Grassi 74 20157 Milano (MI). Italy
E-mail	simone.sarasso@unimi.it
Nationality	Italian
Date of birth	20/09/1979

CURRENT POSITION

• Dates (from – to)	JANUARY 2022 - NOW
• Organization	Università degli Studi di Milano Dipartimento di Scienze Biomediche e Cliniche "L. Sacco" Via G.B. Grassi, 74. 20157 Milano (MI). Italy

Associate Professor of Human Physiology

Main research interests:

Neural correlates of Consciousness
TMS/hd-EEG Coregistration
Sleep and cortical synaptic plasticity
Sleep and Psychiatric Disorders

BIBLIOMETRIC INDICES

Number of publications: **63**
Book chapters: **4**
Number of citations: **6214**
h-index: **38**

EDUCATION

- Dates
- Title of qualification awarded
- Organization providing education and training

APRIL 2008

PhD in Psychological Sciences - Psychobiology
Dipartimento di Psicologia Generale, Università degli Studi di Padova.

PhD thesis titled: "High density EEG studies of local sleep changes following synaptic plasticity in humans", under the supervision of Prof. Luciano Stegagno

- Dates
- Organization providing education and training

SEPTEMBER 2004 – JANUARY 2005

Dipartimento di Psicologia Generale, Università degli Studi di Padova.

Post-Graduate Training:

Investigated the relationship between the cardiocirculatory system and the attentional Orienting Response in sleep deprived conditions begun during degree thesis. Practical activity performed under the supervision of Prof. Luciano Stegagno.

- Dates
- Organization providing education and training

MARCH 2004 – SEPTEMBER 2004

Dipartimento di Psicologia Generale, Università degli Studi di Padova.

Post-Graduate Training:

Studied the relationship between OSAS syndrome and cognitive/affective impairment. Managed polysomnographic nocturnal recordings and daily neuropsychological assessment on patients. Activity performed at Struttura Complessa di Pneumologia, Bassano del Grappa Hospital, ASL n. 3, Bassano del Grappa Vicenza (VI) under the supervision of Prof. Luciano Stegagno.

- Dates
- Title of qualification awarded
- Organization providing education and training

FEBRUARY 2004

Degree in psychology (Final Mark 105/110)
Faculty of Psychology, Università degli Studi di Padova.

Degree thesis titled "Deprivazione Totale di sonno e Risposta di Orientamento: Indici Periferici" (Total Sleep Deprivation and Orienting Response: Peripheral Correlates), under the supervision of Prof. Luciano Stegagno

- Dates
- Title of qualification awarded
- Organization providing education

JULY 1998

High school diploma
Liceo Scientifico "A. Avogadro". Vercelli (VC)

PRACTICAL SCIENTIFIC & RESEARCH EXPERIENCES

- Dates
- Principal subjects/occupational skills covered

JANUARY 2019- DECEMBER 2021

Senior Research Fellow
(Ricercatore a Tempo Determinato - B)
Università degli Studi di Milano
Dipartimento di Scienze Biomediche e Cliniche "L. Sacco"
Via G.B. Grassi, 74. 20157 Milano (MI). Italy

- Dates
- Principal subjects/occupational skills covered

APRIL 2014- DECEMBER 2018

Research Fellow
(Ricercatore a Tempo Determinato - A)
Università degli Studi di Milano
Dipartimento di Scienze Biomediche e Cliniche "L. Sacco"
Via G.B. Grassi, 74. 20157 Milano (MI). Italy

- Dates
- Principal subjects/occupational skills covered

JANUARY 2012- DECEMBER 2013

Post-Doctoral Fellow
 Università degli Studi di Milano
 Dipartimento di Scienze Biomediche e Cliniche “L. Sacco”
 Via G.B. Grassi, 74. 20157 Milano (MI). Italy
 Supervisor: Dr. Marcello Massimini

- Dates
- Principal subjects/occupational skills covered

JUNE 2008- NOV 2011

Research Associate
 Department of Psychiatry, University of Wisconsin - Madison
 6001 Research Park Blvd Madison, WI 53719.
 Supervisor: Prof. Giulio Tononi

- Dates
- Principal subjects/occupational skills covered

NOVEMBER 2006-JUNE 2008

Honorary Fellow
 Department of Psychiatry, University of Wisconsin - Madison
 6001 Research Park Blvd Madison, WI 53719.
 Supervisor: Prof. Giulio Tononi

TEACHING

ACADEMIC YEAR 2020/2021

Basi anatomo-fisiologiche dei processi cognitivi in the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano. (Responsabile del Corso - 12 CFU)

ACADEMIC YEAR 2020/2021

Fisiologia Umana in the CdL Magistrale in Medicina e Chirurgia - Università degli Studi di Milano.

ACADEMIC YEAR 2019/2020

Basi anatomo-fisiologiche dei processi cognitivi in the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano. (Responsabile del Corso - 12 CFU)

ACADEMIC YEAR 2019/2020

Fisiologia Umana in the CdL Magistrale in Medicina e Chirurgia - Università degli Studi di Milano.

ACADEMIC YEAR 2018/2019

Basi anatomo-fisiologiche dei processi cognitivi in the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano. (Responsabile del Corso - 12 CFU)

ACADEMIC YEAR 2018/2019

Fisiologia Umana in the CdL Magistrale in Medicina e Chirurgia - Università degli Studi di Milano.

ACADEMIC YEAR 2017/2018

Basi anatomo-fisiologiche dei processi cognitivi in the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

ACADEMIC YEAR 2017/2018

Fisiologia Umana in the CdL Magistrale in Medicina e Chirurgia - Università degli Studi di Milano.

ACADEMIC YEAR 2016/2017

Basi anatomo-fisiologiche dei processi cognitivi in the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

ACADEMIC YEAR 2015/2016

Basi anatomo-fisiologiche dei processi cognitivi in the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

ACADEMIC YEAR 2020/2021

Member of the "Commissione Paritetica Docenti-Studenti" (Joint committee) of the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

ACADEMIC YEAR 2019/2020

Member of the "Commissione Paritetica Docenti-Studenti" (Joint committee) of the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

ACADEMIC YEAR 2018/2019

President of the "Commissione Paritetica Docenti-Studenti" (Joint committee) of the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

ACADEMIC YEAR 2017/2018

President of the "Commissione Paritetica Docenti-Studenti" (Joint committee) of the CdL Magistrale in Scienze Cognitive e Processi Decisionali (Master's degree in Cognitive Sciences) - Università degli Studi di Milano.

OTHER EDUCATIONAL EXPERTISE

LANGUAGES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

• Reading skills

EXCELLENT

• Writing skills

EXCELLENT

• Verbal skills

EXCELLENT

GRANTS AND AWARDS

JANUARY 2020

Ricerca Scientifica di Eccellenza. Fondazione CARIPARO. UNIMI Leader. Project titled: "The brain's dark energy: observation, perturbation, and disruption studies of brain networks to understand cognition and stroke recovery". EUR 388.850

FEBRUARY 2018

Fondo di Finanziamento per le Attività Base di Ricerca (FFABR) - Ricercatori

NOVEMBER 2015

WSF 2015 Travel Grant for Best Abstract Presentation.
7th World Congress of the World Sleep federation (WSF) 2015.
Istanbul, Turkey, October 31- November 3, 2015.

SEPTEMBER 2014

ESRS 2014 Travel Grant for Best Abstract Presentation.
22nd Congress of the European Sleep Research Society (ESRS) 2014
Tallinn, Estonia, 16 - 22 September 2014.

JUNE 2014

Finanziamenti di Ateneo per la ricerca – Linea B.
Università degli Studi di Milano. Dipartimento di Scienze Biomediche e Cliniche "L. Sacco"
Project titled: "Assessing the effects of amantadine on cortical and cardiovascular autonomic parameters in patients with disorders of consciousness". EUR 23.000

FEBRUARY 2013

Ricerca Finalizzata, Bando Giovani Ricercatori. UO3 Leader. Project WFR GR-2011-02352031 titled: "Measures and mechanisms of recovery of consciousness in severely brain-injured patients: a longitudinal, multimodal study". EUR 342.087,76

JANUARY 2013

Key research personnel for the the EU grant FP7-ICT-2011-9, n. 600806 "Corticonic" (to Prof. Marcello Massimini)

MARCH 2013

Key research personnel for the EU grant H2020-FETOPEN-2014-2015-RIA n. 686764 "Luminous" (to Prof. Marcello Massimini)

JUNE 2013

Key research personnel for the James S. McDonnell Foundation Scholar Award 2013 #220020369 (to Prof. Marcello Massimini)

SEPTEMBER 2015

Key research personnel for the SNF Sinergia CRSII3_160803 grant (to Prof. Claudio Bassetti)

APRIL 2016

Key research personnel for the EU grant H2020 grant agreement 720270-Human Brain Project SGA1 (to Prof. Marcello Massimini)

EDITORIAL ACTIVITY

EDITOR for the following journals:

Scientific Reports, Frontiers in Psychology, Frontiers in Neurology, Frontiers in Psychiatry, Frontiers in Systems Neuroscience

REFEREE for the following journals:

Journal of Neurology, Journal of Sleep Research, Neuroscience of Consciousness, International Journal of Psychophysiology, Clinical Neurophysiology, Plos One, Brain Stimulation, Brain Topography, Sleep Medicine Reviews, Cerebral Cortex, Scientific Reports, Expert Review of

Neurotherapeutics, Sleep Medicine, Brain Topography, Brain and Language, Nature Communications, NeuroImage, Current Biology.

TECHNICAL & SCIENTIFIC SKILLS

MATLAB

Statistical package "STATISTICA" (by Stat Soft).

NetStation (by EGI) High Density EEG acquisition and analysis software.

Eximia NBS and EEG (by NexStim) Navigated Brain Stimulation System software.

Electroencephalographic multichannel system Neuroscan (by Neuroscan-Compumedics) for ERPs recording.

Acquisition software Profusion PSG (by Compumedics) for sleep analysis.

Acquisition software Twin (by Grass Telefactor) for sleep analysis.

Polygraphic multichannel system POLYMESAM (by MAP)

Operating Systems: DOS, Windows, Mac OS.

AUGUST 2021

Co-Director of The Lake Como School of Advanced Studies Titled: "Neural Circuit Complexity: Neuroscience, Models and Robotics (BRAINCOSMOS)". 30 Agosto-3 Settembre, 2021. Villa del Grumello. Como, Italy.

JUNE 2021

Invited Speaker in Symposium Titled: "Spatio-Temporal Brain Dynamics Across Consciousness Levels in Clinical and Healthy Populations". Talk Titled: "Consciousness and Complexity: An Empirical Perturbational Approach". 27th Annual Meeting of The Organization for Human Brain Mapping (OHBM). 21-25 Giugno, 2021.

SEPTEMBER 2020

Invited Speaker in NIH Virtual Meeting Titled "Curing Coma: Challenging the Future of Research for Coma and Disorders of Consciousness". 9-10 Settembre, 2020.

DECEMBER 2019

Invited Talk Titled: "Sonno E Coscienza". MACRO Asilo Roma. 3 Dicembre, 2019. Rome, Italy.

NOVEMBER 2019

Invited Talk in Roundtable "Open Discussion on Multi-Subject Analysis and Data/Soft Sharing". Workshop on Intracranial Recordings in Humans: Epilepsy, DBS. 19 Novembre, 2019. ICM, Paris, France.

SEPTEMBER 2019

Invited Speaker in Symposium Titled: "Sonno e Stati Mentali". Talk Titled: "Correlati Elettrofisiologici della Presenza di Coscienza durante Anestesia Generale". XXV Congresso AIP Sezione Sperimentale, 18-20 Settembre, 2019. Milano, Italy.

SEPTEMBER 2019

Invited Speaker in Symposium Titled: "Medicina Del Sonno e Lavoro: Dalla Ricerca alla Prevenzione". Talk Titled: "Deprivazione di Sonno e Performance Cognitive: Basi Neurofisiologiche". XXIX Congresso Nazionale AIMS, 13-15 Settembre, 2019. Genova, Italy.

SEPTEMBER 2019

Invited Talk Titled: "Consciousness During Unresponsiveness: EEG-Signatures Related to Drugs & TMS". Berner Anästhesie-Symposium "(Un)Consciousness, Neural Networks & Cognition". 11 Settembre, 2019. Bern, Switzerland.

JULY 2019

Invited Talk Titled: "Disorders of Consciousness: Neurophysiological Aspects". Sleep Medicine Summer School. 3 Luglio, 2019. Lugano, Switzerland.

NOVEMBER 2015

Chair of the Symposium: "Fluid boundaries between wake and sleep: from animal models to human pathology". 7th World Congress of the World Sleep federation. October 31- November 3, 2015. Istanbul, Turkey.

NOVEMBER 2015

Invited speaker in Symposium titled: "Sleep: a view from the deep". Talk titled: "Dissociated electrophysiological states during sleep". 7th World Congress of the World Sleep federation. October 31- November 3, 2015. Istanbul, Turkey.

NOVEMBER 2015

Invited speaker in Symposium titled: "New ways to look at sleep-wake states". Talk titled: "Bistability of sleep circuit activity in health and disease". 7th World Congress of the World Sleep federation. October 31- November 3, 2015. Istanbul, Turkey.

MARCH 2015

Invited speaker in Symposium titled: "Sleep, dream consciousness and psychosis". Talk titled: "Thalamocortical connectivity, sleep and schizophrenia". 6th World Congress on Sleep Medicine WASM. March 21 - 25, 2015. Seoul, Korea.

MARCH 2015

Invited speaker in Symposium titled: "Bridges between basic neuroscience and clinical sleep medicine". Talk titled: "Cortical and subcortical sleep activity regulation: insights from Stereo-EEG recordings". 6th World Congress on Sleep Medicine WASM. March 21 - 25, 2015. Seoul, Korea.

SEPTEMBER 2014

Co-chair of the Symposium: "Novel developments in transcranial magnetic stimulation combined with electroencephalography". 19th International Conference on Biomagnetism. August 24-28, 2014. Halifax, Canada.

SEPTEMBER 2014

Invited speaker in Symposium titled: "Novel developments in transcranial magnetic stimulation combined with electroencephalography". Talk titled: "Quantifying Cortical EEG Responses to TMS in (Un)consciousness". 19th International Conference on Biomagnetism. August 24-28, 2014. Halifax, Canada.

JULY 2014

Invited speaker in Symposium titled: "Understanding Sleep: novel perspectives in Neurosciences". Talk titled: "Coupling and uncoupling of cortical and sub-cortical activity during human sleep".

PUBLICATIONS

1. Pascarella A, Mikulan E, Sciacchitano F, **Sarasso S**, Rubino A, Sartori I, Cardinale F, Zauli F, Avanzini P, Nobili L, Pigorini A, Sorrentino A. An in-vivo validation of ESI methods with focal sources. *Neuroimage*. 2023 Jun 10;120219. doi: 10.1016/j.neuroimage.2023.120219.
2. Ort A, Smallridge JW, **Sarasso S**, Casarotto S, von Rotz R, Casanova A, Seifritz E, Preller KH, Tononi G, Vollenweider FX. TMS-EEG and resting-state EEG applied to altered states of consciousness: oscillations, complexity, and phenomenology. *iScience*. 2023 Apr 7;26(5):106589. doi: 10.1016/j.isci.2023.106589.
3. Colombo MA, Comanducci A, Casarotto S, Derchi CC, Annen J, Viganò A, Mazza A, Trimarchi PD, Boly M, Fecchio M, Bodart O, Navarro J, Laureys S, Gosseries O, Massimini M, **Sarasso S**, Rosanova M. Beyond alpha power: EEG spatial and spectral gradients robustly stratify disorders of consciousness. *Cereb Cortex*. 2023 May 24;33(11):7193-7210. doi: 10.1093/cercor/bhad031.
4. Russo S, D'Ambrosio S, De Giampaulis P, Mora G, Massimini M, **Sarasso S**, Lanzone J. Probing cortical structural integrity after focal hemorrhagic stroke: A TMS-EEG case. *Clin Neurophysiol*. 2022 Aug;140:159-160. doi: 10.1016/j.clinph.2022.06.006.
5. Parmigiani S, Mikulan E, Russo S, **Sarasso S**, Zauli FM, Rubino A, Cattani A, Fecchio M, Giampiccolo D, Lanzone J, D'Orio P, Del Vecchio M, Avanzini P, Nobili L, Sartori I, Massimini M, Pigorini A. Simultaneous stereo-EEG and high-density scalp EEG recordings to study the effects of intracerebral stimulation parameters. *Brain Stimul*. 2022 May-Jun;15(3):664-675. doi: 10.1016/j.brs.2022.04.007.
6. Massimini M, **Sarasso S**, Casarotto S, Rosanova M. Measures of differentiation and integration: One step closer to consciousness. *Behav Brain Sci*. 2022 Mar 23;45:e54. doi: 10.1017/S0140525X21002016.
7. Lanzone J, Colombo MA, **Sarasso S**, Zappasodi F, Rosanova M, Massimini M, Di Lazzaro V, Assenza G. EEG spectral exponent as a synthetic index for the longitudinal assessment of stroke recovery. *Clin Neurophysiol*. 2022 May;137:92-101. doi: 10.1016/j.clinph.2022.02.022.
8. Russo S, **Sarasso S**, Puglisi GE, Dal Palù D, Pigorini A, Casarotto S, D'Ambrosio S, Astolfi A, Massimini M, Rosanova M, Fecchio M. TAAC - TMS Adaptable Auditory Control: A universal tool to mask TMS clicks. *J Neurosci Methods*. 2022 Mar 15;370:109491. doi: 10.1016/j.jneumeth.2022.109491.
9. Casarotto S, Fecchio M, Rosanova M, Varone G, D'Ambrosio S, **Sarasso S**, Pigorini A, Russo S, Comanducci A, Ilmoniemi RJ, Massimini M. The rt-TEP tool: real-time visualization of TMS-Evoked Potentials to maximize cortical activation and minimize artifacts. *J Neurosci Methods*. 2022 Mar 15;370:109486. doi: 10.1016/j.jneumeth.2022.109486.
10. Font-Clos F, Spelta B, D'Agostino A, Donati F, **Sarasso S**, Canevini MP, Zapperi S, La Porta CAM. Information Optimized Multilayer Network Representation of High Density Electroencephalogram Recordings. *Front Netw Physiol*. 2021 Sep 28;1:746118. doi: 10.3389/fnetp.2021.746118.
11. **Sarasso S**, Casali AG, Casarotto S, Rosanova M, Sinigaglia C, Massimini M. "Consciousness and Complexity: A Consilience of Evidence". *Neuroscience of Consciousness*. 2021; niab023 doi: <https://doi.org/10.1093/nc/niab023>
12. Claassen J, Akbari Y, Alexander S, Bader MK, Bell K, Bleck TP, Boly M, Brown J, Chou SH, Diringner MN, Edlow BL, Foreman B, Giacino JT, Gosseries O, Green T, Greer DM, Hanley DF, Hartings JA, Helbok R, Hemphill JC, Hinson HE, Hirsch K, Human T, James ML, Ko N, Kondziella D, Livesay S, Madden LK, Mainali S, Mayer SA, McCredie V, McNett MM, Meyfroidt G, Monti MM, Muehlschlegel S, Murthy S, Nyquist P, Olson DM, Provencio JJ, Rosenthal E, Sampaio Silva G, **Sarasso S**, Schiff ND, Sharshar T, Shutter L, Stevens RD, Vespa P, Videtta W, Wagner A, Ziai W, Whyte J, Zink E, Suarez JI; Curing Coma Campaign. "Proceedings of the First Curing Coma Campaign NIH Symposium: Challenging the Future

of Research for Coma and Disorders of Consciousness". *Neurocrit Care*. 2021 Jul;35(Suppl 1):4-23. doi: 10.1007/s12028-021-01260-x.

13. Donati FL, Fecchio M, Maestri D, Cornali M, Derchi CC, Casetta C, Zalaffi M, Sinigaglia C, **Sarasso S**, D'Agostino A. "Reduced Readiness Potential and Post-Movement Beta Synchronization Reflect Self-Disorders in Early Course Schizophrenia". *Sci Rep*. 2021 Jul 22;11(1):15044. doi: 10.1038/s41598-021-94356-5.
14. Russo S, Pigorini A, Mikulan E, **Sarasso S**, Rubino A, Zauli FM, Parmigiani S, D'Orio P, Cattani A, Francione S, Tassi L, Bassetti C, Lo Russo G, Nobili L, Sartori I, Massimini M. "Focal Lesions Induce Large-Scale Percolation of Sleep-Like Intracerebral Activity in Awake Humans". *Neuroimage*. 2021 Jul 1;234:117964. doi: 10.1016/J.Neuroimage.2021.117964.
15. Gorgoni M, **Sarasso S**, Moroni F, Sartori I, Ferrara M, Nobili L, De Gennaro L. "The Distinctive Sleep Pattern of the Human Calcarine Cortex: A Stereo-EEG Study". *Sleep*. 2021 Feb 8;Zsab026. doi: 10.1093/Sleep/Zsab026.
16. **Sarasso S**, D'Ambrosio S, Fecchio M, Casarotto S, Viganò A, Landi C, Mattavelli G, Gosseries O, Quarengi M, Laureys S, Devalle G, Rosanova M, Massimini M. "Local Sleep-Like Cortical Reactivity in the Awake Brain After Focal Injury". *Brain*. 2020 Dec 1;143(12):3672-3684. doi: 10.1093/Brain/Awaa338.
17. **Sarasso S**, Zubler F, Pigorini A, Sartori I, Castana L, Nobili L. "Thalamic and neocortical differences in the relationship between the time course of delta and sigma power during NREM sleep in humans". *J Sleep Res*. 2020 Aug 24:e13166. doi: 10.1111/jsr.13166.
18. Mikulan E, Russo S, Parmigiani S, **Sarasso S**, Zauli FM, Rubino A, Avanzini P, Cattani A, Sorrentino A, Gibbs S, Cardinale F, Sartori I, Nobili L, Massimini M, Pigorini A. "Simultaneous human intracerebral stimulation and HD-EEG, ground-truth for source localization methods". *Sci Data*. 2020 Apr 28;7(1):127. doi: 10.1038/s41597-020-0467-x.
19. Castelnovo A, Zago M, Casetta C, Zangani C, Donati F, Canevini M, Riedner BA, Tononi G, Ferrarelli F, **Sarasso S**, D'Agostino A. "Slow wave oscillations in Schizophrenia First-Degree Relatives: A confirmatory analysis and feasibility study on slow wave traveling." *Schizophr Res*. 2020 Jul;221:37-43. doi: 10.1016/j.schres.2020.03.025.
20. D'Ambrosio S, Castelnovo A, Guglielmi O, Nobili L, **Sarasso S**, Garbarino S. "Sleepiness as a Local Phenomenon". *Front Neurosci*. 2019 Oct 18;13:1086.
21. Comolatti R, Pigorini A, Casarotto S, Fecchio M, Faria G, **Sarasso S**, Rosanova M, Gosseries O, Boly M, Bodart O, Ledoux D, Brichant JF, Nobili L, Laureys S, Tononi G, Massimini M, Casali AG. "A fast and general method to empirically estimate the complexity of brain responses to transcranial and intracranial stimulations". *Brain Stimul*. 2019 Sep - Oct;12(5):1280-1289.
22. Belardinelli P, Biabani M, Blumberger DM, Bortoletto M, Casarotto S, David O, Desideri D, Etkin A, Ferrarelli F, Fitzgerald PB, Fornito A, Gordon PC, Gosseries O, Harquel S, Julkunen P, Keller CJ, Kimiskidis VK, Lioumis P, Miniussi C, Rosanova M, Rossi S, **Sarasso S**, Wu W, Zrenner C, Daskalakis ZJ, Rogasch NC, Massimini M, Ziemann U, Ilmoniemi RJ. "Reproducibility in TMS-EEG studies: A call for data sharing, standard procedures and effective experimental control". *Brain Stimul*. 2019 May - Jun;12(3):787-790.
23. Colombo MA, Napolitani M, Boly M, Gosseries O, Casarotto S, Rosanova M, Brichant JF, Boveroux P, Rex S, Laureys S, Massimini M, Chiaregato A, **Sarasso S**. "The spectral exponent of the resting EEG indexes the presence of consciousness during unresponsiveness induced by propofol, xenon, and ketamine". *Neuroimage*. 2019 Apr 1;189:631-644.
24. Mensen A, Pigorini A, Facchin L, Schöne C, D'Ambrosio S, Jendoubi J, Jaramillo V, Chiffi K, Eberhard-Moscicka AK, **Sarasso S**, Adamantidis A, Müri RM, Huber R, Massimini M, Bassetti C. "Sleep as a model to understand neuroplasticity and recovery after stroke:

- Observational, perturbational and interventional approaches". *J Neurosci Methods*. 2019 Feb 1;313:37-43.
25. Rosanova M, Fecchio M, Casarotto S, **Sarasso S**, Casali AG, Pigorini A, Comanducci A, Seregni F, Devalle G, Citerio G, Bodart O, Boly M, Gosseries O, Laureys S, Massimini M. "Sleep-like cortical OFF-periods disrupt causality and complexity in the brain of unresponsive wakefulness syndrome patients". *Nat Commun*. 2018 Oct 24;9(1):4427.
 26. Amato N, Manconi M, Möller JC, **Sarasso S**, Stanzione P, Staedler C, Kaelin-Lang A, Galati S. "Levodopa-induced dyskinesia in Parkinson disease: Sleep matters". *Ann Neurol*. 2018 Dec;84(6):905-917.
 27. Galbiati A, Giora E, **Sarasso S**, Zucconi M, Ferini-Strambi L. "Repetitive thought is associated with both subjectively and objectively recorded polysomnographic indices of disrupted sleep in insomnia disorder". *Sleep Med*. 2018 May;45:55-61.
 28. Gaggioni G, Ly JQM, Chellappa SL, Coppieters 't Wallant D, Rosanova M, **Sarasso S**, Luxen A, Salmon E, Middleton B, Massimini M, Schmidt C, Casali A, Phillips C, Vandewalle G. "Human fronto-parietal response scattering subserves vigilance at night". *Neuroimage*. 2018 Mar 28;175:354-364.
 29. D'Agostino A, Castelnovo A, Cavallotti S, Casetta C, Marcatili M, Gambini O, Canevini M, Tononi G, Riedner B, Ferrarelli F, **Sarasso S**. "Sleep endophenotypes of schizophrenia: slow waves and sleep spindles in unaffected first-degree relatives". *NPJ Schizophr*. 2018 Feb 9;4(1):2.
 30. Pincherle A, Pace M, **Sarasso S**, Facchin L, Dreier JP, Bassetti CL. "Sleep, Preconditioning and Stroke". *Stroke*. 2017 Dec;48(12):3400-3407.
 31. Fecchio M, Pigorini A, Comanducci A, **Sarasso S**, Casarotto S, Premoli I, Derchi CC, Mazza A, Russo S, Resta F, Ferrarelli F, Mariotti M, Ziemann U, Massimini M, Rosanova M. "The spectral features of EEG responses to transcranial magnetic stimulation of the primary motor cortex depend on the amplitude of the motor evoked potentials". *PLoS One*. 2017 Sep 14;12(9):e0184910.
 32. Demertzi A, Sitt JD, **Sarasso S**, Pinxten W. "Measuring states of pathological (un) consciousness: research dimensions, clinical applications, and ethics". *Neuroscience of Consciousness*, Volume 2017, Issue 1.
 33. Schartner M, Pigorini A, Gibbs SA, Arnulfo G, **Sarasso S**, Barnett L, Nobili L, Massimini M, Seth AK, Barrett AB. "Global and local complexity of intracranial EEG decreases during NREM sleep". *Neuroscience of Consciousness*, Volume 2017, Issue 1.
 34. Casarotto S., Comanducci A., Rosanova M., **Sarasso S.**, Fecchio M., Napolitani M., Pigorini A., G. Casali A., Trimarchi P.D., Boly M., Gosseries O., Bodart O., Curto F., Landi C., Mariotti M., Devalle G., Laureys S., Tononi G., Massimini M. "Stratification of unresponsive patients by an independently validated index of brain complexity". *Ann Neurol*. 2016 Nov;80(5):718-729.
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BOOK CHAPTERS

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Milano, 16/06/2023