

# Giulio Ruffini

## List of Publications by Year in descending order

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107  
papers

5,847  
citations

101496

36  
h-index

88593

70  
g-index

141  
all docs

141  
docs citations

141  
times ranked

5496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward noninvasive brain stimulation 2.0 in Alzheimer's disease. <i>Ageing Research Reviews</i> , 2022, 75, 101555.	5.0	37
2	A checklist for assessing the methodological quality of concurrent tES-fMRI studies (ContES). <i>Frontiers in Neuroimaging</i> , 2021, 10, 70221.	3.5	21
3	Modeling implanted metals in electrical stimulation applications. <i>Journal of Neural Engineering</i> , 2022, 19, 026003.	1.8	6
4	Stereo-EEG based personalized multichannel transcranial direct current stimulation in drug-resistant epilepsy. <i>Clinical Neurophysiology</i> , 2022, 137, 142-151.	0.7	10
5	Local and Distributed fMRI Changes Induced by 40 Hz Gamma tACS of the Bilateral Dorsolateral Prefrontal Cortex: A Pilot Study. <i>Neural Plasticity</i> , 2022, 2022, 1-14.	1.0	5
6	Transcranial Direct Current Stimulation to the Left Dorsolateral Prefrontal Cortex Improves Cognitive Control in Patients With Attention-Deficit/Hyperactivity Disorder: A Randomized Behavioral and Neurophysiological Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 439-448.	1.1	12
7	In-session seizures during transcranial direct current stimulation in patients with epilepsy. <i>Brain Stimulation</i> , 2021, 14, 152-153.	0.7	7
8	The impact of individual electrical fields and anatomical factors on the neurophysiological outcomes of tDCS: A TMS-MEP and MRI study. <i>Brain Stimulation</i> , 2021, 14, 316-326.	0.7	58
9	Phase-IIa randomized, double-blind, sham-controlled, parallel group trial on anodal transcranial direct current stimulation (tDCS) over the left and right tempo-parietal junction in autism spectrum disorder: StimAT: study protocol for a clinical trial. <i>Trials</i> , 2021, 22, 248.	0.7	7
10	External induction and stabilization of brain oscillations in the human. <i>Brain Stimulation</i> , 2021, 14, 579-587.	0.7	13
11	Patient-Tailored, Home-Based Non-invasive Brain Stimulation for Memory Deficits in Dementia Due to Alzheimer's Disease. <i>Frontiers in Neurology</i> , 2021, 12, 598135.	1.1	17
12	A novel closed-loop EEG-tDCS approach to promote responsiveness of patients in minimally conscious state: A study protocol. <i>Behavioural Brain Research</i> , 2021, 409, 113311.	1.2	11
13	Targeted tDCS Mitigates Dual-Task Costs to Gait and Balance in Older Adults. <i>Annals of Neurology</i> , 2021, 90, 428-439.	2.8	21
14	Personalization of Multi-electrode Setups in tCS/tES: Methods and Advantages. , 2021, , 119-135.		4
15	Multichannel anodal tDCS over the left dorsolateral prefrontal cortex in a paediatric population. <i>Scientific Reports</i> , 2021, 11, 21512.	1.6	14
16	Multifocal Transcranial Direct Current Stimulation Modulates Resting-State Functional Connectivity in Older Adults Depending on the Induced Current Density. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 725013.	1.7	9
17	A physical neural mass modeling framework for laminar cortical circuits in brain stimulation. <i>Brain Stimulation</i> , 2021, 14, 1592.	0.7	3
18	Safety and Feasibility of Tele-Supervised Home-Based Transcranial Direct Current Stimulation for Major Depressive Disorder. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 765370.	1.7	20

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19	Impact of multisession 40Hz tACS on hippocampal perfusion in patients with Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 203.	3.0	32
20	Gamma-band induction in frontotemporal dementia (GIFTeD) randomized placebo-controlled trial: Rationale, noninvasive brain stimulation protocol, and study design. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2021, 7, e12219.	1.8	2
21	A novel tDCS sham approach based on model-driven controlled shunting. <i>Brain Stimulation</i> , 2020, 13, 507-516.	0.7	47
22	Behavioral and electrophysiological effects of network-based frontoparietal tDCS in patients with severe brain injury: A randomized controlled trial. <i>NeuroImage: Clinical</i> , 2020, 28, 102426.	1.4	28
23	Impact of network-targeted multichannel transcranial direct current stimulation on intrinsic and network functional connectivity. <i>Journal of Neuroscience Research</i> , 2020, 98, 1843-1856.	1.3	18
24	Individual Baseline Performance and Electrode Montage Impact on the Effects of Anodal tDCS Over the Left Dorsolateral Prefrontal Cortex. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 349.	1.0	20
25	Sleep, Noninvasive Brain Stimulation, and the Aging Brain: Challenges and Opportunities. <i>Ageing Research Reviews</i> , 2020, 61, 101067.	5.0	22
26	Intermittent tACS during a visual task impacts neural oscillations and LZW complexity. <i>Experimental Brain Research</i> , 2020, 238, 1411-1422.	0.7	4
27	Realistic modeling of mesoscopic ephaptic coupling in the human brain. <i>PLoS Computational Biology</i> , 2020, 16, e1007923.	1.5	18
28	Probing the circuits of conscious perception with magnetophosphenes. <i>Journal of Neural Engineering</i> , 2020, 17, 036034.	1.8	3
29	Drug-Responsive Inhomogeneous Cortical Modulation by Direct Current Stimulation. <i>Annals of Neurology</i> , 2020, 88, 489-502.	2.8	16
30	Prefrontal Cortex Neuromodulation Enhances Frontal Asymmetry and Reduces Caloric Intake in Patients with Morbid Obesity. <i>Obesity</i> , 2020, 28, 696-705.	1.5	13
31	Network Mapping of Connectivity Alterations in Disorder of Consciousness: Towards Targeted Neuromodulation. <i>Journal of Clinical Medicine</i> , 2020, 9, 828.	1.0	13
32	Deep Learning Convolutional Neural Networks Discriminate Adult ADHD From Healthy Individuals on the Basis of Event-Related Spectral EEG. <i>Frontiers in Neuroscience</i> , 2020, 14, 251.	1.4	77
33	Noninvasive Brain Stimulation & Space Exploration: Opportunities and Challenges. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 119, 294-319.	2.9	23
34	Clinical Drivers for Personalization of Transcranial Current Stimulation (tES 3.0). , 2020, , 353-370.		1
35	Deep Learning With EEG Spectrograms in Rapid Eye Movement Behavior Disorder. <i>Frontiers in Neurology</i> , 2019, 10, 806.	1.1	67
36	Reduction of intratumoral brain perfusion by noninvasive transcranial electrical stimulation. <i>Science Advances</i> , 2019, 5, eaau9309.	4.7	10

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37	Characterization of the non-stationary nature of steady-state visual evoked potentials using echo state networks. PLoS ONE, 2019, 14, e0218771.	1.1	7
38	tDCS to the left DLPFC modulates cognitive and physiological correlates of executive function in a state-dependent manner. Brain Stimulation, 2019, 12, 1456-1463.	0.7	97
39	Evaluating Complexity of Fetal MEG Signals: A Comparison of Different Metrics and Their Applicability. Frontiers in Systems Neuroscience, 2019, 13, 23.	1.2	11
40	Algorithmic Complexity of EEG for Prognosis of Neurodegeneration in Idiopathic Rapid Eye Movement Behavior Disorder (RBD). Annals of Biomedical Engineering, 2019, 47, 282-296.	1.3	20
41	Sham tDCS: A hidden source of variability? Reflections for further blinded, controlled trials. Brain Stimulation, 2019, 12, 668-673.	0.7	137
42	Detection of generalized synchronization using echo state networks. Chaos, 2018, 28, 033118.	1.0	24
43	Multitarget transcranial direct current stimulation for freezing of gait in Parkinson's disease. Movement Disorders, 2018, 33, 642-646.	2.2	105
44	Targeting brain networks with multichannel transcranial current stimulation (tCS). Current Opinion in Biomedical Engineering, 2018, 8, 70-77.	1.8	51
45	Realistic modeling of transcranial current stimulation: The electric field in the brain. Current Opinion in Biomedical Engineering, 2018, 8, 20-27.	1.8	31
46	Concurrent measurement of cerebral hemodynamics and electroencephalography during transcranial direct current stimulation. Neurophotonics, 2018, 5, 1.	1.7	21
47	Workshops of the Sixth International Brain-Computer Interface Meeting: brain-computer interfaces past, present, and future. Brain-Computer Interfaces, 2017, 4, 3-36.	0.9	24
48	Network-targeted non-invasive brain stimulation with multifocal tDCS. Brain Stimulation, 2017, 10, 411-412.	0.7	6
49	Optimized Multielectrode tDCS Modulates Corticolimbic Networks. Brain Stimulation, 2017, 10, e14.	0.7	4
50	Low intensity transcranial electric stimulation: Safety, ethical, legal regulatory and application guidelines. Clinical Neurophysiology, 2017, 128, 1774-1809.	0.7	783
51	Multifocal tDCS targeting the resting state motor network increases cortical excitability beyond traditional tDCS targeting unilateral motor cortex. NeuroImage, 2017, 157, 34-44.	2.1	143
52	Concurrent diffuse optical measurement of cerebral hemodynamics and EEG during transcranial direct current stimulation (tDCS) in humans. Brain Stimulation, 2017, 10, 383.	0.7	2
53	Optimised multielectrode TDCS modulates corticolimbic networks: a functional MRI study. European Neuropsychopharmacology, 2017, 27, S77.	0.3	0
54	An algorithmic information theory of consciousness. Neuroscience of Consciousness, 2017, 2017, nix019.	1.4	39

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55	Comparison of Medical and Consumer Wireless EEG Systems for Use in Clinical Trials. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 398.	1.0	118
56	Opportunities for Guided Multichannel Non-invasive Transcranial Current Stimulation in Poststroke Rehabilitation. <i>Frontiers in Neurology</i> , 2016, 7, 21.	1.1	38
57	Evaluation of the electric field in the brain during transcranial direct current stimulation: A sensitivity analysis. , 2016, 2016, 1778-1781.		15
58	EEG-driven RNN Classification for Prognosis of Neurodegeneration in At-Risk Patients. <i>Lecture Notes in Computer Science</i> , 2016, , 306-313.	1.0	25
59	Synthetic tactile perception induced by transcranial alternating-current stimulation can substitute for natural sensory stimulus in behaving rabbits. <i>Scientific Reports</i> , 2016, 6, 19753.	1.6	15
60	Conscious Brain-to-Brain Communication Using Noninvasive Technologies. , 2016, , 241-256.		3
61	Bistatic Radar Measurements of Significant Wave Height Using Signals of Opportunity in L-, S-, and Ku-Bands. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 826-841.	2.7	18
62	Concurrent diffuse optical measurement of cerebral hemodynamics and EEG during transcranial direct current stimulation (tDCS) in humans. , 2016, , .		0
63	Intensity Dependent Effects of Transcranial Direct Current Stimulation on Corticospinal Excitability in Chronic Spinal Cord Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015, 96, S114-S121.	0.5	53
64	SAR Altimeter Backscattered Waveform Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 911-919.	2.7	115
65	Optimization of multifocal transcranial current stimulation for weighted cortical pattern targeting from realistic modeling of electric fields. <i>NeuroImage</i> , 2014, 89, 216-225.	2.1	289
66	Transcranial Electrical Stimulation in Animals. , 2014, , 117-144.		6
67	Conscious Brain-to-Brain Communication in Humans Using Non-Invasive Technologies. <i>PLoS ONE</i> , 2014, 9, e105225.	1.1	160
68	Transcranial Current Brain Stimulation (tCS): Models and Technologies. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 333-345.	2.7	152
69	The electric field in the cortex during transcranial current stimulation. <i>NeuroImage</i> , 2013, 70, 48-58.	2.1	277
70	Effects of transcranial Direct Current Stimulation (tDCS) on cortical activity: A computational modeling study. <i>Brain Stimulation</i> , 2013, 6, 25-39.	0.7	140
71	Guest Editorial: Special Issue on Noninvasive Electromagnetic Brain Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 331-332.	2.7	1
72	From Oscillatory Transcranial Current Stimulation to Scalp EEG Changes: A Biophysical and Physiological Modeling Study. <i>PLoS ONE</i> , 2013, 8, e57330.	1.1	70

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73	Transcranial direct-current stimulation modulates synaptic mechanisms involved in associative learning in behaving rabbits. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6710-6715.	3.3	171
74	The relationship between transcranial Current Stimulation electrode montages and the effect of the skull orbital openings. , 2012, 2012, 831-4.		6
75	Electrophysiological Biometrics: Opportunities and Risks. The International Library of Ethics, Law and Technology, 2012, , 149-176.	0.2	5
76	Global Navigation Satellite Systems Reflectometry as a Remote Sensing Tool for Agriculture. Remote Sensing, 2012, 4, 2356-2372.	1.8	122
77	Proxemics with multiple dynamic characters in an immersive virtual environment. ACM Transactions on Applied Perception, 2010, 8, 1-12.	1.2	118
78	Modeling the electric field induced in a high resolution realistic head model during transcranial current stimulation. , 2010, 2010, 2073-6.		58
79	First human trials of a dry electrophysiology sensor using a carbon nanotube array interface. Sensors and Actuators A: Physical, 2008, 144, 275-279.	2.0	95
80	Complex networks in brain electrical activity. Europhysics Letters, 2007, 79, 38004.	0.7	7
81	Unobtrusive Biometric System Based on Electroencephalogram Analysis. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.0	109
82	Mismatch negativity impairment associated with alcohol consumption in chronic alcoholics: A scalp current density study. International Journal of Psychophysiology, 2007, 65, 51-57.	0.5	11
83	Potential Synergetic Use of GNSS-R Signals to Improve the Sea-State Correction in the Sea Surface Salinity Estimation: Application to the SMOS Mission. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2088-2097.	2.7	20
84	ENOBIO dry electrophysiology electrode; first human trial plus wireless electrode system. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6690-4.	0.5	39
85	A dry electrophysiology electrode using CNT arrays. Sensors and Actuators A: Physical, 2006, 132, 34-41.	2.0	82
86	ENOBIO - First Tests of a Dry Electrophysiology Electrode using Carbon Nanotubes. , 2006, 2006, 1826-9.		24
87	Ionospheric tomography using GNSS reflections. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 321-326.	2.7	18
88	Combined ICA-LORETA analysis of mismatch negativity. NeuroImage, 2005, 25, 471-477.	2.1	222
89	The Eddy Experiment: Accurate GNSS-R ocean altimetry from low altitude aircraft. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	94
90	Sea state monitoring using coastal GNSS-R. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	113

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91	The Eddy Experiment: GNSS-R specularometry for directional sea-roughness retrieval from low altitude aircraft. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	73
92	Mediterranean Balloon Experiment: ocean wind speed sensing from the stratosphere, using GPS reflections. <i>Remote Sensing of Environment</i> , 2003, 88, 351-362.	4.6	80
93	Oceanpal: an instrument for remote sensing of the ocean and other water surfaces using GNSS reflections. <i>Elsevier Oceanography Series</i> , 2003, 69, 146-153.	0.1	11
94	Altimetry precision of 1 cm over a pond using the wide-lane carrier phase of GPS reflected signals. <i>Canadian Journal of Remote Sensing</i> , 2002, 28, 394-403.	1.1	43
95	The Use of GPS to Validate NWP Systems: The HIRLAM Model. <i>Journal of Atmospheric and Oceanic Technology</i> , 2000, 17, 773-787.	0.5	39
96	4D tropospheric tomography using GPS slant wet delays. <i>Annales Geophysicae</i> , 2000, 18, 223-234.	0.6	213
97	The use of GPS buoys in the determination of oceanic variables. <i>Earth, Planets and Space</i> , 2000, 52, 1113-1116.	0.9	12
98	A PIM-aided kalman filter for gps tomography of the ionospheric electron content. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , 1999, 24, 365-369.	0.2	6
99	Estimation of tropospheric zenith delay and gradients over the Madrid area using GPS and WVR data. <i>Geophysical Research Letters</i> , 1999, 26, 447-450.	1.5	27
100	An experiment for estimation of the spatial and temporal variations of water vapor using GPS data. <i>Physics and Chemistry of the Earth</i> , 1998, 23, 125-130.	0.3	43
101	GPS tomography of the ionospheric electron content with a correlation functional. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 143-153.	2.7	51
102	Analysis of ionospheric electron density distribution from GPS/MET occultations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 383-394.	2.7	43
103	Ionospheric calibration of radar altimeters using GPS tomography. <i>Geophysical Research Letters</i> , 1998, 25, 3771-3774.	1.5	13
104	Replica-Symmetric Approach to a Hidden-Layer Feature Detector. <i>International Journal of Modern Physics C</i> , 1997, 08, 1119-1130.	0.8	0
105	Improving the vertical resolution of ionospheric tomography with GPS Occultations. <i>Geophysical Research Letters</i> , 1997, 24, 2291-2294.	1.5	94
106	Multimodal Physiological Biometrics Authentication. , 0, , 461-482.		13
107	Network-Based Transcranial Direct Current Stimulation May Modulate Gait Variability in Young Healthy Adults. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	1.0	0