

Gian Luca Romani

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

11,393
citations

31902

53
h-index

32761

100
g-index

125
all docs

125
docs citations

125
times ranked

12320
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroplasticity within and between Functional Brain Networks in Mental Training Based on Long-Term Meditation. <i>Brain Sciences</i> , 2021, 11, 1086.	1.1	10
2	Nonalcoholic fatty liver disease and cardiovascular disease phenotypes. <i>SAGE Open Medicine</i> , 2020, 8, 205031212093380.	0.7	12
3	Spontaneous Brain Activity Predicts Task-Evoked Activity During Animate Versus Inanimate Touch. <i>Cerebral Cortex</i> , 2019, 29, 4628-4645.	1.6	43
4	The impact of improved MEG-MRI co-registration on MEG connectivity analysis. <i>NeuroImage</i> , 2019, 197, 354-367.	2.1	40
5	Toward a brain theory of meditation. <i>Progress in Brain Research</i> , 2019, 244, 207-232.	0.9	37
6	Distinct modes of functional connectivity induced by movie-watching. <i>NeuroImage</i> , 2019, 184, 335-348.	2.1	23
7	Disclosing large-scale directed functional connections in MEG with the multivariate phase slope index. <i>NeuroImage</i> , 2018, 175, 161-175.	2.1	33
8	Functional connections between activated and deactivated brain regions mediate emotional interference during externally directed cognition. <i>Human Brain Mapping</i> , 2018, 39, 3597-3610.	1.9	12
9	Disrupted relationship between "resting state" connectivity and task-evoked activity during social perception in schizophrenia. <i>Schizophrenia Research</i> , 2018, 193, 370-376.	1.1	20
10	Effective connectivity inferred from fMRI transition dynamics during movie viewing points to a balanced reconfiguration of cortical interactions. <i>NeuroImage</i> , 2018, 180, 534-546.	2.1	57
11	Theta-burst stimulation causally affects side perception in the Deutsch's octave illusion. <i>Scientific Reports</i> , 2018, 8, 12844.	1.6	1
12	Optimized 3D co-registration of ultra-low-field and high-field magnetic resonance images. <i>PLoS ONE</i> , 2018, 13, e0193890.	1.1	8
13	How spontaneous brain activity and narcissistic features shape social interaction. <i>Scientific Reports</i> , 2017, 7, 9986.	1.6	44
14	A Neural "Tuning Curve" for Multisensory Experience and Cognitive-Perceptual Schizotypy. <i>Schizophrenia Bulletin</i> , 2017, 43, 801-813.	2.3	48
15	Task and Regions Specific Top-Down Modulation of Alpha Rhythms in Parietal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 4815-4822.	1.6	41
16	Integrative Processing of Touch and Affect in Social Perception: An fMRI Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 209.	1.0	16
17	Intertrial Variability in the Premotor Cortex Accounts for Individual Differences in Peripersonal Space. <i>Journal of Neuroscience</i> , 2015, 35, 16328-16339.	1.7	52
18	Dynamics of EEG Rhythms Support Distinct Visual Selection Mechanisms in Parietal Cortex: A Simultaneous Transcranial Magnetic Stimulation and EEG Study. <i>Journal of Neuroscience</i> , 2015, 35, 721-730.	1.7	27

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19	Dynamic reorganization of human resting-state networks during visuospatial attention. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8112-8117.	3.3	160
20	Brain activity modulation during the production of imperative and declarative pointing. NeuroImage, 2015, 109, 449-457.	2.1	11
21	Resting-State Temporal Synchronization Networks Emerge from Connectivity Topology and Heterogeneity. PLoS Computational Biology, 2015, 11, e1004100.	1.5	216
22	Visual Learning Induces Changes in Resting-State fMRI Multivariate Pattern of Information. Journal of Neuroscience, 2015, 35, 9786-9798.	1.7	47
23	Response inhibition failure to visual stimuli paired with a "single-type" stressor in PTSD patients: An fMRI pilot study. Brain Research Bulletin, 2015, 114, 20-30.	1.4	9
24	Do You Know What I Mean? Brain Oscillations and the Understanding of Communicative Intentions. Frontiers in Human Neuroscience, 2014, 8, 36.	1.0	21
25	Domain-general Signals in the Cingulo-opercular Network for Visuospatial Attention and Episodic Memory. Journal of Cognitive Neuroscience, 2014, 26, 551-568.	1.1	84
26	Binding Action and Emotion in First-Episode Schizophrenia. Psychopathology, 2014, 47, 394-407.	1.1	14
27	Impact of SQUIDs on functional imaging in neuroscience. Superconductor Science and Technology, 2014, 27, 044004.	1.8	4
28	Memory Accumulation Mechanisms in Human Cortex Are Independent of Motor Intentions. Journal of Neuroscience, 2014, 34, 6993-7006.	1.7	27
29	Resting-state Modulation of Alpha Rhythms by Interference with Angular Gyru Activity. Journal of Cognitive Neuroscience, 2014, 26, 107-119.	1.1	41
30	Reach Out and Touch Someone: Anticipatory Sensorimotor Processes of Active Interpersonal Touch. Journal of Cognitive Neuroscience, 2014, 26, 2171-2185.	1.1	25
31	Being an agent or an observer: Different spectral dynamics revealed by MEG. NeuroImage, 2014, 102, 717-728.	2.1	33
32	Fast optical signals in the sensorimotor cortex: General Linear Convolution Model applied to multiple source "detector distance-based data. NeuroImage, 2014, 85, 245-254.	2.1	27
33	How Local Excitation-Inhibition Ratio Impacts the Whole Brain Dynamics. Journal of Neuroscience, 2014, 34, 7886-7898.	1.7	303
34	Cortical EEG alpha rhythms reflect task-specific somatosensory and motor interactions in humans. Clinical Neurophysiology, 2014, 125, 1936-1945.	0.7	51
35	Brain Networks during Free Viewing of Complex Erotic Movie: New Insights on Psychogenic Erectile Dysfunction. PLoS ONE, 2014, 9, e105336.	1.1	46
36	Magnetoencephalography in the study of brain dynamics. Functional Neurology, 2014, 29, 241-53.	1.3	15

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37	Long-range functional interactions of anterior insula and medial frontal cortex are differently modulated by visuospatial and inductive reasoning tasks. <i>NeuroImage</i> , 2013, 78, 426-438.	2.1	32
38	Natural Scenes Viewing Alters the Dynamics of Functional Connectivity in the Human Brain. <i>Neuron</i> , 2013, 79, 782-797.	3.8	175
39	Interference with episodic memory retrieval following transcranial stimulation of the inferior but not the superior parietal lobule. <i>Neuropsychologia</i> , 2013, 51, 900-906.	0.7	60
40	Evolutionarily Novel Functional Networks in the Human Brain?. <i>Journal of Neuroscience</i> , 2013, 33, 3259-3275.	1.7	266
41	Resting-State Functional Connectivity Emerges from Structurally and Dynamically Shaped Slow Linear Fluctuations. <i>Journal of Neuroscience</i> , 2013, 33, 11239-11252.	1.7	476
42	Out of touch with reality? Social perception in first-episode schizophrenia. <i>Social Cognitive and Affective Neuroscience</i> , 2013, 8, 394-403.	1.5	57
43	Anatomical Segregation of Visual Selection Mechanisms in Human Parietal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 6225-6229.	1.7	43
44	The Autonomic Signature of Guilt in Children: A Thermal Infrared Imaging Study. <i>PLoS ONE</i> , 2013, 8, e79440.	1.1	80
45	Differential Contribution of Right and Left Parietal Cortex to the Control of Spatial Attention: A Simultaneous EEG-rTMS Study. <i>Cerebral Cortex</i> , 2012, 22, 446-454.	1.6	71
46	Electrophysiological Correlates of Stimulus-driven Reorienting Deficits after Interference with Right Parietal Cortex during a Spatial Attention Task: A TMS-EEG Study. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 2363-2371.	1.1	41
47	A Cortical Core for Dynamic Integration of Functional Networks in the Resting Human Brain. <i>Neuron</i> , 2012, 74, 753-764.	3.8	396
48	Interspecies activity correlations reveal functional correspondence between monkey and human brain areas. <i>Nature Methods</i> , 2012, 9, 277-282.	9.0	101
49	Mother and child in synchrony: Thermal facial imprints of autonomic contagion. <i>Biological Psychology</i> , 2012, 89, 123-129.	1.1	108
50	Effects of mobile phone signals over BOLD response while performing a cognitive task. <i>Clinical Neurophysiology</i> , 2012, 123, 129-136.	0.7	18
51	Impaired sustained attention in euthymic bipolar disorder patients and non-affected relatives: an fMRI study. <i>Bipolar Disorders</i> , 2012, 14, 764-779.	1.1	58
52	Macrostructural Alterations of Subcortical Grey Matter in Psychogenic Erectile Dysfunction. <i>PLoS ONE</i> , 2012, 7, e39118.	1.1	38
53	Common and unique neuro-functional basis of induction, visualization, and spatial relationships as cognitive components of fluid intelligence. <i>NeuroImage</i> , 2012, 62, 331-342.	2.1	43
54	Data-driven analysis of analogous brain networks in monkeys and humans during natural vision. <i>NeuroImage</i> , 2012, 63, 1107-1118.	2.1	30

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55	Individual variability in functional connectivity predicts performance of a perceptual task. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3516-3521.	3.3	235
56	Modifications of Default-Mode Network Connectivity in Patients with Cerebral Glioma. PLoS ONE, 2012, 7, e40231.	1.1	81
57	Combination Training in Aging Individuals Modifies Functional Connectivity and Cognition, and Is Potentially Affected by Dopamine-Related Genes. PLoS ONE, 2012, 7, e43901.	1.1	64
58	The Role of Left Superior Parietal Lobe in Male Sexual Behavior: Dynamics of Distinct Components Revealed by fMRI. Journal of Sexual Medicine, 2012, 9, 1602-1612.	0.3	28
59	Episodic Memory Retrieval, Parietal Cortex, and the Default Mode Network: Functional and Topographic Analyses. Journal of Neuroscience, 2011, 31, 4407-4420.	1.7	439
60	Altered intrinsic functional connectivity of anterior and posterior insula regions in high-functioning participants with autism spectrum disorder. Human Brain Mapping, 2011, 32, 1013-1028.	1.9	240
61	Viewing One's Own Face Being Touched Modulates Tactile Perception: An fMRI Study. Journal of Cognitive Neuroscience, 2011, 23, 503-513.	1.1	75
62	A Signal-Processing Pipeline for Magnetoencephalography Resting-State Networks. Brain Connectivity, 2011, 1, 49-59.	0.8	105
63	Differential Involvement of Somatosensory and Interoceptive Cortices during the Observation of Affective Touch. Journal of Cognitive Neuroscience, 2011, 23, 1808-1822.	1.1	104
64	Thermal Imaging of Cutaneous Temperature Modifications in Runners During Graded Exercise. Annals of Biomedical Engineering, 2010, 38, 158-163.	1.3	163
65	Temporal dynamics of spontaneous MEG activity in brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6040-6045.	3.3	664
66	Effects of somatosensory stimulation and attention on human somatosensory cortex: An fMRI study. NeuroImage, 2010, 53, 181-188.	2.1	30
67	Neural correlates of focused attention and cognitive monitoring in meditation. Brain Research Bulletin, 2010, 82, 46-56.	1.4	214
68	Altered brain response without behavioral attention deficits in healthy siblings of schizophrenic patients. NeuroImage, 2010, 49, 1080-1090.	2.1	27
69	Learning sculpts the spontaneous activity of the resting human brain. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17558-17563.	3.3	708
70	Frontoparietal Cortex Controls Spatial Attention through Modulation of Anticipatory Alpha Rhythms. Journal of Neuroscience, 2009, 29, 5863-5872.	1.7	411
71	Noxious Somatosensory Stimulation Affects the Default Mode of Brain Function: Evidence from Functional MR Imaging. Radiology, 2009, 253, 797-804.	3.6	46
72	Differential patterns of cortical activation as a function of fluid reasoning complexity. Human Brain Mapping, 2009, 30, 497-510.	1.9	71

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73	Negative BOLD effect on somato-motor inhibitory processing: An fMRI study. <i>Neuroscience Letters</i> , 2009, 462, 101-104.	1.0	13
74	Chapter 5 Fundamentals of Electroencefalography, Magnetoencefalography, and Functional Magnetic Resonance Imaging. <i>International Review of Neurobiology</i> , 2009, 86, 67-80.	0.9	97
75	Large-scale brain networks account for sustained and transient activity during target detection. <i>NeuroImage</i> , 2009, 44, 265-274.	2.1	145
76	Modulation of alpha oscillations in insular cortex reflects the threat of painful stimuli. <i>NeuroImage</i> , 2009, 46, 1082-1090.	2.1	21
77	Neuromagnetic functional coupling during dichotic listening of speech sounds. <i>Human Brain Mapping</i> , 2008, 29, 253-264.	1.9	31
78	Sensory-motor mechanisms in human parietal cortex underlie arbitrary visual decisions. <i>Nature Neuroscience</i> , 2008, 11, 1446-1453.	7.1	193
79	Empathic neural reactivity to noxious stimuli delivered to body parts and non-corporeal objects. <i>European Journal of Neuroscience</i> , 2008, 28, 1222-1230.	1.2	54
80	Pre-stimulus alpha power affects vertex N2-P2 potentials evoked by noxious stimuli. <i>Brain Research Bulletin</i> , 2008, 75, 581-590.	1.4	19
81	Executive functions with different motor outputs in somatosensory Go/Nogo tasks: An event-related functional MRI study. <i>Brain Research Bulletin</i> , 2008, 77, 197-205.	1.4	30
82	Somato-motor inhibitory processing in humans: An event-related functional MRI study. <i>NeuroImage</i> , 2008, 39, 1858-1866.	2.1	121
83	Human secondary somatosensory cortex is involved in the processing of somatosensory rare stimuli: An fMRI study. <i>NeuroImage</i> , 2008, 40, 1765-1771.	2.1	100
84	The Sense of Touch: Embodied Simulation in a Visuotactile Mirroring Mechanism for Observed Animate or Inanimate Touch. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 1611-1623.	1.1	206
85	Lateralization of Dichotic Speech Stimuli is Based on Specific Auditory Pathway Interactions: Neuromagnetic Evidence. <i>Cerebral Cortex</i> , 2007, 17, 2303-2311.	1.6	70
86	Temporal Dynamics of Plastic Changes in Human Primary Somatosensory Cortex after Finger Webbing. <i>Cerebral Cortex</i> , 2007, 17, 2134-2142.	1.6	39
87	Cortical brain responses during passive nonpainful median nerve stimulation at low frequencies (0.5-4 Hz): An fMRI study. <i>Human Brain Mapping</i> , 2007, 28, 645-653.	1.9	49
88	Donepezil effects on sources of cortical rhythms in mild Alzheimer's disease: Responders vs. Non-Responders. <i>NeuroImage</i> , 2006, 31, 1650-1665.	2.1	97
89	Sources of cortical rhythms change as a function of cognitive impairment in pathological aging: a multicenter study. <i>Clinical Neurophysiology</i> , 2006, 117, 252-268.	0.7	260
90	Field-warp registration for biomedical high-resolution thermal infrared images. , 2006, 2006, 961-4.		9

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91	Sources of cortical rhythms in adults during physiological aging: A multicentric EEG study. <i>Human Brain Mapping</i> , 2006, 27, 162-172.	1.9	253
92	Apolipoprotein E and alpha brain rhythms in mild cognitive impairment: A multicentric Electroencephalogram study. <i>Annals of Neurology</i> , 2006, 59, 323-334.	2.8	92
93	Visuo-spatial Consciousness and Parieto-occipital Areas: A High-resolution EEG Study. <i>Cerebral Cortex</i> , 2006, 16, 37-46.	1.6	71
94	Contingent Negative Variation in the Parasylvian Cortex Increases During Expectancy of Painful Sensorimotor Events: A Magnetoencephalographic Study.. <i>Behavioral Neuroscience</i> , 2005, 119, 491-502.	0.6	9
95	Right hemisphere specialization for intensity discrimination of musical and speech sounds. <i>Neuropsychologia</i> , 2005, 43, 1916-1923.	0.7	51
96	Human alpha rhythms during visual delayed choice reaction time tasks: A magnetoencephalography study. <i>Human Brain Mapping</i> , 2005, 24, 184-192.	1.9	25
97	Dynamics of male sexual arousal: distinct components of brain activation revealed by fMRI. <i>NeuroImage</i> , 2005, 26, 1086-1096.	2.1	287
98	Alpha rhythms in mild demented during visual delayed choice reaction time tasks: A MEG study. <i>Brain Research Bulletin</i> , 2005, 65, 457-470.	1.4	35
99	Inhibition of auditory cortical responses to ipsilateral stimuli during dichotic listening: evidence from magnetoencephalography. <i>European Journal of Neuroscience</i> , 2004, 19, 2329-2336.	1.2	90
100	Multimodal integration of EEG and MEG data: A simulation study with variable signal-to-noise ratio and number of sensors. <i>Human Brain Mapping</i> , 2004, 22, 52-62.	1.9	51
101	Mapping distributed sources of cortical rhythms in mild Alzheimer's disease. A multicentric EEG study. <i>NeuroImage</i> , 2004, 22, 57-67.	2.1	253
102	Brain sensorimotor hand area functionality in acute stroke: insights from magnetoencephalography. <i>NeuroImage</i> , 2004, 23, 542-550.	2.1	30
103	Functional topography of the secondary somatosensory cortex for nonpainful and painful stimulation of median and tibial nerve: an fMRI study. <i>NeuroImage</i> , 2004, 23, 1217-1225.	2.1	63
104	Gamma synchronization in human primary somatosensory cortex as revealed by somatosensory evoked neuromagnetic fields. <i>Brain Research</i> , 2003, 986, 63-70.	1.1	26
105	Functional topography of the secondary somatosensory cortex for nonpainful and painful stimuli: an fMRI study. <i>NeuroImage</i> , 2003, 20, 1625-1638.	2.1	82
106	Magnetoencephalography in pediatric neurology and in epileptic syndromes. <i>Pediatric Neurology</i> , 2003, 28, 253-261.	1.0	16
107	Comparison between SI and SII responses as a function of stimulus intensity. <i>NeuroReport</i> , 2002, 13, 813-819.	0.6	68
108	Quantifying the relevance and stage of disease with the Tau image technique. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2002, 21, 86-91.	1.1	31

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109	Magnetoencephalography - a noninvasive brain imaging method with 1 ms time resolution. Reports on Progress in Physics, 2001, 64, 1759-1814.	8.1	107
110	Linear inverse source estimate of combined EEG and MEG data related to voluntary movements. Human Brain Mapping, 2001, 14, 197-209.	1.9	93
111	SQUID systems for biomagnetic imaging. Superconductor Science and Technology, 2001, 14, R79-R114.	1.8	102
112	Topographic organization of the human primary and secondary somatosensory areas. NeuroReport, 2000, 11, 2035-2043.	0.6	62
113	Bilateral neuromagnetic activation of human primary sensorimotor cortex in preparation and execution of unilateral voluntary finger movements. Brain Research, 1999, 827, 234-236.	1.1	22
114	Functional localization of the sensory hand area with respect to the motor central gyrus knob. NeuroReport, 1999, 10, 3809-3814.	0.6	42
115	Neuromagnetic fields of the brain evoked by voluntary movement and electrical stimulation of the index finger. Brain Research, 1995, 682, 22-28.	1.1	61
116	Measurement of segmental transit through the gut in man. Digestive Diseases and Sciences, 1992, 37, 1537-1543.	1.1	41
117	The Use of SQUIDS in the Study of Biomagnetic Fields. , 1989, , 149-174.		3
118	Neuromagnetic functional Localization: Principles, state of the art, and perspectives. Brain Topography, 1988, 1, 5-21.	0.8	54
119	Neuromagnetic Evidence of Synchronized Spontaneous Activity in the Brain Following Repetitive Sensory Stimulation. International Journal of Neuroscience, 1987, 32, 831-836.	0.8	19
120	Biomagnetism: A Non-Invasive New Approach for Imaging of Bioelectrical Sources in the Human Body. , 1987, , 455-473.		0
121	Biomagnetism: An application of squid sensors to medicine and physiology. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1984, 126, 70-81.	0.9	7
122	Biomagnetic instrumentation. Review of Scientific Instruments, 1982, 53, 1815-1845.	0.6	232