

Gian Luca Romani

List of Publications by Year in descending order

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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	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
2	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
3	Resting-State Functional Connectivity Emerges from Structurally and Dynamically Shaped Slow Linear Fluctuations. Journal of Neuroscience, 2013, 33, 11239-11252.	1.7	476
4	Episodic Memory Retrieval, Parietal Cortex, and the Default Mode Network: Functional and Topographic Analyses. Journal of Neuroscience, 2011, 31, 4407-4420.	1.7	439
5	Frontoparietal Cortex Controls Spatial Attention through Modulation of Anticipatory Alpha Rhythms. Journal of Neuroscience, 2009, 29, 5863-5872.	1.7	411
6	A Cortical Core for Dynamic Integration of Functional Networks in the Resting Human Brain. Neuron, 2012, 74, 753-764.	3.8	396
7	How Local Excitation-Inhibition Ratio Impacts the Whole Brain Dynamics. Journal of Neuroscience, 2014, 34, 7886-7898.	1.7	303
8	Dynamics of male sexual arousal: distinct components of brain activation revealed by fMRI. NeuroImage, 2005, 26, 1086-1096.	2.1	287
9	Evolutionarily Novel Functional Networks in the Human Brain?. Journal of Neuroscience, 2013, 33, 3259-3275.	1.7	266
10	Sources of cortical rhythms change as a function of cognitive impairment in pathological aging: a multicenter study. Clinical Neurophysiology, 2006, 117, 252-268.	0.7	260
11	Mapping distributed sources of cortical rhythms in mild Alzheimer's disease. A multicentric EEG study. NeuroImage, 2004, 22, 57-67.	2.1	253
12	Sources of cortical rhythms in adults during physiological aging: A multicentric EEG study. Human Brain Mapping, 2006, 27, 162-172.	1.9	253
13	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
14	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
15	Biomagnetic instrumentation. Review of Scientific Instruments, 1982, 53, 1815-1845.	0.6	232
16	Resting-State Temporal Synchronization Networks Emerge from Connectivity Topology and Heterogeneity. PLoS Computational Biology, 2015, 11, e1004100.	1.5	216
17	Neural correlates of focused attention and cognitive monitoring in meditation. Brain Research Bulletin, 2010, 82, 46-56.	1.4	214
18	The <i>Sense</i> of Touch: Embodied Simulation in a Visuotactile Mirroring Mechanism for Observed Animate or Inanimate Touch. Journal of Cognitive Neuroscience, 2008, 20, 1611-1623.	1.1	206

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19	Sensory-motor mechanisms in human parietal cortex underlie arbitrary visual decisions. <i>Nature Neuroscience</i> , 2008, 11, 1446-1453.	7.1	193
20	Natural Scenes Viewing Alters the Dynamics of Functional Connectivity in the Human Brain. <i>Neuron</i> , 2013, 79, 782-797.	3.8	175
21	Thermal Imaging of Cutaneous Temperature Modifications in Runners During Graded Exercise. <i>Annals of Biomedical Engineering</i> , 2010, 38, 158-163.	1.3	163
22	Dynamic reorganization of human resting-state networks during visuospatial attention. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8112-8117.	3.3	160
23	Large-scale brain networks account for sustained and transient activity during target detection. <i>NeuroImage</i> , 2009, 44, 265-274.	2.1	145
24	Somato-motor inhibitory processing in humans: An event-related functional MRI study. <i>NeuroImage</i> , 2008, 39, 1858-1866.	2.1	121
25	Mother and child in synchrony: Thermal facial imprints of autonomic contagion. <i>Biological Psychology</i> , 2012, 89, 123-129.	1.1	108
26	Magnetoencephalography - a noninvasive brain imaging method with 1 ms time resolution. <i>Reports on Progress in Physics</i> , 2001, 64, 1759-1814.	8.1	107
27	A Signal-Processing Pipeline for Magnetoencephalography Resting-State Networks. <i>Brain Connectivity</i> , 2011, 1, 49-59.	0.8	105
28	Differential Involvement of Somatosensory and Interoceptive Cortices during the Observation of Affective Touch. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1808-1822.	1.1	104
29	SQUID systems for biomagnetic imaging. <i>Superconductor Science and Technology</i> , 2001, 14, R79-R114.	1.8	102
30	Interspecies activity correlations reveal functional correspondence between monkey and human brain areas. <i>Nature Methods</i> , 2012, 9, 277-282.	9.0	101
31	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
32	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
33	Chapter 5 Fundamentals of Electroencefalography, Magnetoencefalography, and Functional Magnetic Resonance Imaging. <i>International Review of Neurobiology</i> , 2009, 86, 67-80.	0.9	97
34	Linear inverse source estimate of combined EEG and MEG data related to voluntary movements. <i>Human Brain Mapping</i> , 2001, 14, 197-209.	1.9	93
35	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
36	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

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37	Domain-general Signals in the Cingulo-opercular Network for Visuospatial Attention and Episodic Memory. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 551-568.	1.1	84
38	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
39	Modifications of Default-Mode Network Connectivity in Patients with Cerebral Glioma. <i>PLoS ONE</i> , 2012, 7, e40231.	1.1	81
40	The Autonomic Signature of Guilt in Children: A Thermal Infrared Imaging Study. <i>PLoS ONE</i> , 2013, 8, e79440.	1.1	80
41	Viewing One's Own Face Being Touched Modulates Tactile Perception: An fMRI Study. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 503-513.	1.1	75
42	Visuo-spatial Consciousness and Parieto-occipital Areas: A High-resolution EEG Study. <i>Cerebral Cortex</i> , 2006, 16, 37-46.	1.6	71
43	Differential patterns of cortical activation as a function of fluid reasoning complexity. <i>Human Brain Mapping</i> , 2009, 30, 497-510.	1.9	71
44	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
45	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
46	Comparison between SI and SII responses as a function of stimulus intensity. <i>NeuroReport</i> , 2002, 13, 813-819.	0.6	68
47	Combination Training in Aging Individuals Modifies Functional Connectivity and Cognition, and Is Potentially Affected by Dopamine-Related Genes. <i>PLoS ONE</i> , 2012, 7, e43901.	1.1	64
48	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
49	Topographic organization of the human primary and secondary somatosensory areas. <i>NeuroReport</i> , 2000, 11, 2035-2043.	0.6	62
50	Neuromagnetic fields of the brain evoked by voluntary movement and electrical stimulation of the index finger. <i>Brain Research</i> , 1995, 682, 22-28.	1.1	61
51	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
52	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
53	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
54	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

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55	Neuromagnetic functional Localization: Principles, state of the art, and perspectives. <i>Brain Topography</i> , 1988, 1, 5-21.	0.8	54
56	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
57	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
58	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
59	Right hemisphere specialization for intensity discrimination of musical and speech sounds. <i>Neuropsychologia</i> , 2005, 43, 1916-1923.	0.7	51
60	Cortical EEG alpha rhythms reflect task-specific somatosensory and motor interactions in humans. <i>Clinical Neurophysiology</i> , 2014, 125, 1936-1945.	0.7	51
61	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
62	A Neural "Tuning Curve" for Multisensory Experience and Cognitive-Perceptual Schizotypy. <i>Schizophrenia Bulletin</i> , 2017, 43, 801-813.	2.3	48
63	Visual Learning Induces Changes in Resting-State fMRI Multivariate Pattern of Information. <i>Journal of Neuroscience</i> , 2015, 35, 9786-9798.	1.7	47
64	Noxious Somatosensory Stimulation Affects the Default Mode of Brain Function: Evidence from Functional MR Imaging. <i>Radiology</i> , 2009, 253, 797-804.	3.6	46
65	Brain Networks during Free Viewing of Complex Erotic Movie: New Insights on Psychogenic Erectile Dysfunction. <i>PLoS ONE</i> , 2014, 9, e105336.	1.1	46
66	How spontaneous brain activity and narcissistic features shape social interaction. <i>Scientific Reports</i> , 2017, 7, 9986.	1.6	44
67	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
68	Anatomical Segregation of Visual Selection Mechanisms in Human Parietal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 6225-6229.	1.7	43
69	Spontaneous Brain Activity Predicts Task-Evoked Activity During Animate Versus Inanimate Touch. <i>Cerebral Cortex</i> , 2019, 29, 4628-4645.	1.6	43
70	Functional localization of the sensory hand area with respect to the motor central gyrus knob. <i>NeuroReport</i> , 1999, 10, 3809-3814.	0.6	42
71	Measurement of segmental transit through the gut in man. <i>Digestive Diseases and Sciences</i> , 1992, 37, 1537-1543.	1.1	41
72	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

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73	Resting-state Modulation of Alpha Rhythms by Interference with Angular Gyrus Activity. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 107-119.	1.1	41
74	Task and Regions Specific Top-Down Modulation of Alpha Rhythms in Parietal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 4815-4822.	1.6	41
75	The impact of improved MEG-MRI co-registration on MEG connectivity analysis. <i>NeuroImage</i> , 2019, 197, 354-367.	2.1	40
76	Temporal Dynamics of Plastic Changes in Human Primary Somatosensory Cortex after Finger Webbing. <i>Cerebral Cortex</i> , 2007, 17, 2134-2142.	1.6	39
77	Macrostructural Alterations of Subcortical Grey Matter in Psychogenic Erectile Dysfunction. <i>PLoS ONE</i> , 2012, 7, e39118.	1.1	38
78	Toward a brain theory of meditation. <i>Progress in Brain Research</i> , 2019, 244, 207-232.	0.9	37
79	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
80	Being an agent or an observer: Different spectral dynamics revealed by MEG. <i>NeuroImage</i> , 2014, 102, 717-728.	2.1	33
81	Disclosing large-scale directed functional connections in MEG with the multivariate phase slope index. <i>NeuroImage</i> , 2018, 175, 161-175.	2.1	33
82	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
83	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
84	Neuromagnetic functional coupling during dichotic listening of speech sounds. <i>Human Brain Mapping</i> , 2008, 29, 253-264.	1.9	31
85	Brain sensorimotor hand area functionality in acute stroke: insights from magnetoencephalography. <i>NeuroImage</i> , 2004, 23, 542-550.	2.1	30
86	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
87	Effects of somatosensory stimulation and attention on human somatosensory cortex: An fMRI study. <i>NeuroImage</i> , 2010, 53, 181-188.	2.1	30
88	Data-driven analysis of analogous brain networks in monkeys and humans during natural vision. <i>NeuroImage</i> , 2012, 63, 1107-1118.	2.1	30
89	The Role of Left Superior Parietal Lobe in Male Sexual Behavior: Dynamics of Distinct Components Revealed by fMRI. <i>Journal of Sexual Medicine</i> , 2012, 9, 1602-1612.	0.3	28
90	Altered brain response without behavioral attention deficits in healthy siblings of schizophrenic patients. <i>NeuroImage</i> , 2010, 49, 1080-1090.	2.1	27

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91	Memory Accumulation Mechanisms in Human Cortex Are Independent of Motor Intentions. <i>Journal of Neuroscience</i> , 2014, 34, 6993-7006.	1.7	27
92	Fast optical signals in the sensorimotor cortex: General Linear Convolution Model applied to multiple sourceâ€“detector distance-based data. <i>NeuroImage</i> , 2014, 85, 245-254.	2.1	27
93	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
94	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
95	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
96	Reach Out and Touch Someone: Anticipatory Sensorimotor Processes of Active Interpersonal Touch. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 2171-2185.	1.1	25
97	Distinct modes of functional connectivity induced by movie-watching. <i>NeuroImage</i> , 2019, 184, 335-348.	2.1	23
98	Bilateral neuromagnetic activation of human primary sensorimotor cortex in preparation and execution of unilateral voluntary finger movements. <i>Brain Research</i> , 1999, 827, 234-236.	1.1	22
99	Modulation of alpha oscillations in insular cortex reflects the threat of painful stimuli. <i>NeuroImage</i> , 2009, 46, 1082-1090.	2.1	21
100	Do You Know What I Mean? Brain Oscillations and the Understanding of Communicative Intentions. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 36.	1.0	21
101	Disrupted relationship between â€œresting stateâ€•connectivity and task-evoked activity during social perception in schizophrenia. <i>Schizophrenia Research</i> , 2018, 193, 370-376.	1.1	20
102	Neuromagnetic Evidence of Synchronized Spontaneous Activity in the Brain Following Repetitive Sensory Stimulation. <i>International Journal of Neuroscience</i> , 1987, 32, 831-836.	0.8	19
103	Pre-stimulus alpha power affects vertex N2â€“P2 potentials evoked by noxious stimuli. <i>Brain Research Bulletin</i> , 2008, 75, 581-590.	1.4	19
104	Effects of mobile phone signals over BOLD response while performing a cognitive task. <i>Clinical Neurophysiology</i> , 2012, 123, 129-136.	0.7	18
105	Magnetoencephalography in pediatric neurology and in epileptic syndromes. <i>Pediatric Neurology</i> , 2003, 28, 253-261.	1.0	16
106	Integrative Processing of Touch and Affect in Social Perception: An fMRI Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 209.	1.0	16
107	Magnetoencephalography in the study of brain dynamics. <i>Functional Neurology</i> , 2014, 29, 241-53.	1.3	15
108	Binding Action and Emotion in First-Episode Schizophrenia. <i>Psychopathology</i> , 2014, 47, 394-407.	1.1	14

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109	Negative BOLD effect on somato-motor inhibitory processing: An fMRI study. <i>Neuroscience Letters</i> , 2009, 462, 101-104.	1.0	13
110	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
111	Nonalcoholic fatty liver disease and cardiovascular disease phenotypes. <i>SAGE Open Medicine</i> , 2020, 8, 205031212093380.	0.7	12
112	Brain activity modulation during the production of imperative and declarative pointing. <i>NeuroImage</i> , 2015, 109, 449-457.	2.1	11
113	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
114	Contingent Negative Variation in the Parasyllian Cortex Increases During Expectancy of Painful Sensorimotor Events: A Magnetoencephalographic Study.. <i>Behavioral Neuroscience</i> , 2005, 119, 491-502.	0.6	9
115	Field-warp registration for biomedical high-resolution thermal infrared images. , 2006, 2006, 961-4.		9
116	Response inhibition failure to visual stimuli paired with a "single-type" stressor in PTSD patients: An fMRI pilot study. <i>Brain Research Bulletin</i> , 2015, 114, 20-30.	1.4	9
117	Optimized 3D co-registration of ultra-low-field and high-field magnetic resonance images. <i>PLoS ONE</i> , 2018, 13, e0193890.	1.1	8
118	Biomagnetism: An application of squid sensors to medicine and physiology. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1984, 126, 70-81.	0.9	7
119	Impact of SQUIDs on functional imaging in neuroscience. <i>Superconductor Science and Technology</i> , 2014, 27, 044004.	1.8	4
120	The Use of SQUIDs in the Study of Biomagnetic Fields. , 1989, , 149-174.		3
121	Theta-burst stimulation causally affects side perception in the Deutsch's octave illusion. <i>Scientific Reports</i> , 2018, 8, 12844.	1.6	1
122	Biomagnetism: A Non-Invasive New Approach for Imaging of Bioelectrical Sources in the Human Body. , 1987, , 455-473.		0