

Rafael Malach

List of Publications by Year in descending order

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98
papers

16,868
citations

41344

49
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34986

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all docs

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docs citations

111
times ranked

12560
citing authors

#	ARTICLE	IF	CITATIONS
1	Resting-State Fluctuations Underlie Free and Creative Verbal Behaviors in the Human Brain. <i>Cerebral Cortex</i> , 2021, 31, 213-232.	2.9	13
2	Local neuronal relational structures underlying the contents of human conscious experience. <i>Neuroscience of Consciousness</i> , 2021, 2021, niab028.	2.6	17
3	The surprising role of the default mode network in naturalistic perception. <i>Communications Biology</i> , 2021, 4, 79.	4.4	40
4	Global waves synchronize the brain's functional systems with fluctuating arousal. <i>Science Advances</i> , 2021, 7, .	10.3	110
5	Hippocampal ripples and their coordinated dialogue with the default mode network during recent and remote recollection. <i>Neuron</i> , 2021, 109, 2767-2780.e5.	8.1	46
6	Face-Selective Units in Human Ventral Temporal Cortex Reactivate during Free Recall. <i>Journal of Neuroscience</i> , 2021, 41, 3386-3399.	3.6	16
7	How do the blind "see"? The role of spontaneous brain activity in self-generated perception. <i>Brain</i> , 2021, 144, 340-353.	7.6	26
8	Inter-participant consistency of language-processing networks during abstract thoughts. <i>NeuroImage</i> , 2020, 211, 116626.	4.2	9
9	Studying the precuneus reveals structure-function-affect correlation in long-term meditators. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 1203-1216.	3.0	8
10	Hippocampal sharp-wave ripples linked to visual episodic recollection in humans. <i>Science</i> , 2019, 365, .	12.6	149
11	Convergent evolution of face spaces across human face-selective neuronal groups and deep convolutional networks. <i>Nature Communications</i> , 2019, 10, 4934.	12.8	76
12	Where Does Time Go When You Blink?. <i>Psychological Science</i> , 2019, 30, 907-916.	3.3	10
13	The Noisy Brain: Power of Resting-State Fluctuations Predicts Individual Recognition Performance. <i>Cell Reports</i> , 2019, 29, 3775-3784.e4.	6.4	10
14	Resting-State Activity in High-Order Visual Areas as a Window into Natural Human Brain Activations. <i>Cerebral Cortex</i> , 2019, 29, 3618-3635.	2.9	12
15	astrocyte disruption of neurovascular communication is linked to cortical damage in an animal model of multiple sclerosis. <i>Glia</i> , 2018, 66, 1098-1117.	4.9	37
16	Quenching of spontaneous fluctuations by attention in human visual cortex. <i>NeuroImage</i> , 2018, 171, 84-98.	4.2	20
17	Motion cues modulate responses to emotion in movies. <i>Scientific Reports</i> , 2018, 8, 10881.	3.3	10
18	Spontaneously Emerging Patterns in Human Visual Cortex Reflect Responses to Naturalistic Sensory Stimuli. <i>Cerebral Cortex</i> , 2017, 27, bhv275.	2.9	43

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19	Representation of Multiple Body Parts in the Missing-Hand Territory of Congenital One-Handers. <i>Current Biology</i> , 2017, 27, 1350-1355.	3.9	71
20	Tuning face perception with electrical stimulation of the fusiform gyrus. <i>Human Brain Mapping</i> , 2017, 38, 2830-2842.	3.6	32
21	Invariant Temporal Dynamics Underlie Perceptual Stability in Human Visual Cortex. <i>Current Biology</i> , 2017, 27, 155-165.	3.9	28
22	Neuronal baseline shifts underlying boundary setting during free recall. <i>Nature Communications</i> , 2017, 8, 1301.	12.8	25
23	Increasing suppression of saccade-related transients along the human visual hierarchy. <i>ELife</i> , 2017, 6, .	6.0	16
24	Covert neurofeedback without awareness shapes cortical network spontaneous connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2413-20.	7.1	87
25	Alterations in task-induced activity and resting-state fluctuations in visual and DMN areas revealed in long-term meditators. <i>NeuroImage</i> , 2016, 135, 125-134.	4.2	56
26	Data for default network reduced functional connectivity in meditators, negatively correlated with meditation expertise. <i>Data in Brief</i> , 2016, 8, 910-914.	1.0	27
27	Trained to silence: Progressive signal inhibition during short visuo-motor training. <i>NeuroImage</i> , 2016, 143, 106-115.	4.2	8
28	Diminished Auditory Responses during NREM Sleep Correlate with the Hierarchy of Language Processing. <i>PLoS ONE</i> , 2016, 11, e0157143.	2.5	27
29	Astrocyte morphology is confined by cortical functional boundaries in mammals ranging from mice to human. <i>ELife</i> , 2016, 5, .	6.0	26
30	Human intracranial recordings link suppressed transients rather than 'filling-in' to perceptual continuity across blinks. <i>ELife</i> , 2016, 5, .	6.0	40
31	Intracranial recordings reveal transient response dynamics during information maintenance in human cerebral cortex. <i>Human Brain Mapping</i> , 2015, 36, 3988-4003.	3.6	15
32	Repetitive speech elicits widespread deactivation in the human cortex: the 'antra' effect?. <i>Brain and Behavior</i> , 2015, 5, e00346.	2.2	26
33	The idiosyncratic brain: distortion of spontaneous connectivity patterns in autism spectrum disorder. <i>Nature Neuroscience</i> , 2015, 18, 302-309.	14.8	364
34	Coupling between pupil fluctuations and resting-state fMRI uncovers a slow build-up of antagonistic responses in the human cortex. <i>NeuroImage</i> , 2015, 106, 414-427.	4.2	116
35	Differential Magnetic Resonance Neurofeedback Modulations across Extrinsic (Visual) and Intrinsic (Default-Mode) Nodes of the Human Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 2588-2595.	3.6	40
36	Brain activity correlates with emotional perception induced by dynamic avatars. <i>NeuroImage</i> , 2015, 122, 306-317.	4.2	27

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37	Spontaneous Fluctuations and Non-linear Ignitions: Two Dynamic Faces of Cortical Recurrent Loops. <i>Neuron</i> , 2015, 88, 194-206.	8.1	82
38	A unifying principle underlying the extracellular field potential spectral responses in the human cortex. <i>Journal of Neurophysiology</i> , 2015, 114, 505-519.	1.8	171
39	Normalisation of brain connectivity through compensatory behaviour, despite congenital hand absence. <i>ELife</i> , 2015, 4, .	6.0	41
40	Save the Global: Global Signal Connectivity as a Tool for Studying Clinical Populations with Functional Magnetic Resonance Imaging. <i>Brain Connectivity</i> , 2014, 4, 395-403.	1.7	160
41	Exemplar Selectivity Reflects Perceptual Similarities in the Human Fusiform Cortex. <i>Cerebral Cortex</i> , 2014, 24, 1879-1893.	2.9	67
42	The emotion-action link? Naturalistic emotional stimuli preferentially activate the human dorsal visual stream. <i>NeuroImage</i> , 2014, 84, 254-264.	4.2	52
43	Deconstructing the default: Cortical subdivision of the default mode/intrinsic system during self-related processing. <i>Human Brain Mapping</i> , 2014, 35, 1491-1502.	3.6	49
44	Neurocognitive biases and the patterns of spontaneous correlations in the human cortex. <i>Trends in Cognitive Sciences</i> , 2013, 17, 606-615.	7.8	109
45	Modeling the electrical field created by mass neural activity. <i>Neural Networks</i> , 2013, 40, 44-51.	5.9	10
46	Resting state functional connectivity reflects abnormal task-activated patterns in a developmental object agnostic. <i>NeuroImage</i> , 2013, 70, 189-198.	4.2	24
47	Spatial and Object-Based Attention Modulates Broadband High-Frequency Responses across the Human Visual Cortical Hierarchy. <i>Journal of Neuroscience</i> , 2013, 33, 1228-1240.	3.6	48
48	The Day-After Effect: Long Term, Hebbian-Like Restructuring of Resting-State fMRI Patterns Induced by a Single Epoch of Cortical Activation. <i>Journal of Neuroscience</i> , 2013, 33, 9488-9497.	3.6	100
49	Emergence of Sensory Patterns during Sleep Highlights Differential Dynamics of REM and Non-REM Sleep Stages. <i>Journal of Neuroscience</i> , 2013, 33, 14715-14728.	3.6	20
50	Selectivity of audiovisual ECoG responses revealed under naturalistic stimuli in the human cortex. <i>Journal of Neurophysiology</i> , 2013, 109, 2272-2281.	1.8	9
51	A Widely Distributed Spectral Signature of Task-Negative Electroencephalography Responses Revealed during a Visuomotor Task in the Human Cortex. <i>Journal of Neuroscience</i> , 2012, 32, 10458-10469.	3.6	42
52	Targeting the functional properties of cortical neurons using fMR-adaptation. <i>NeuroImage</i> , 2012, 62, 1163-1169.	4.2	42
53	Neuronal reflections and subjective awareness. <i>Advances in Consciousness Research</i> , 2012, , 21-36.	0.2	6
54	Reduction in Inter-Hemispheric Connectivity in Disorders of Consciousness. <i>PLoS ONE</i> , 2012, 7, e37238.	2.5	48

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55	Coupling between spontaneous (resting state) fMRI fluctuations and human oculo-motor activity. <i>NeuroImage</i> , 2011, 58, 213-225.	4.2	33
56	Stimulus-free thoughts induce differential activation in the human default network. <i>NeuroImage</i> , 2011, 54, 1692-1702.	4.2	53
57	Conscious perception and the frontal lobes: comment on Lau and Rosenthal. <i>Trends in Cognitive Sciences</i> , 2011, 15, 507.	7.8	6
58	Disrupted Neural Synchronization in Toddlers with Autism. <i>Neuron</i> , 2011, 70, 1218-1225.	8.1	341
59	Global Functional Connectivity Deficits in Schizophrenia Depend on Behavioral State. <i>Journal of Neuroscience</i> , 2011, 31, 12972-12981.	3.6	60
60	The Link between fMRI-BOLD Activation and Perceptual Awareness Is "Stream-Invariant" in the Human Visual System. <i>Cerebral Cortex</i> , 2011, 21, 2829-2837.	2.9	87
61	Reliability of cortical activity during natural stimulation. <i>Trends in Cognitive Sciences</i> , 2010, 14, 40-48.	7.8	511
62	Perceptual shape sensitivity to upright and inverted faces is reflected in neuronal adaptation. <i>NeuroImage</i> , 2010, 50, 383-395.	4.2	57
63	Seeing with Profoundly Deactivated Mid-level Visual Areas: Non-hierarchical Functioning in the Human Visual Cortex. <i>Cerebral Cortex</i> , 2009, 19, 1687-1703.	2.9	57
64	Neural "Ignition": Enhanced Activation Linked to Perceptual Awareness in Human Ventral Stream Visual Cortex. <i>Neuron</i> , 2009, 64, 562-574.	8.1	242
65	Interhemispheric correlations of slow spontaneous neuronal fluctuations revealed in human sensory cortex. <i>Nature Neuroscience</i> , 2008, 11, 1100-1108.	14.8	442
66	Data-driven clustering reveals a fundamental subdivision of the human cortex into two global systems. <i>Neuropsychologia</i> , 2008, 46, 540-553.	1.6	169
67	Internally Generated Reactivation of Single Neurons in Human Hippocampus During Free Recall. <i>Science</i> , 2008, 322, 96-101.	12.6	394
68	Regionally-specific adaptation dynamics in human object areas. <i>NeuroImage</i> , 2008, 39, 1926-1937.	4.2	33
69	Class Information Predicts Activation by Object Fragments in Human Object Areas. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 1189-1206.	2.3	45
70	Enhanced Category Tuning Revealed by Intracranial Electroencephalograms in High-Order Human Visual Areas. <i>Journal of Neuroscience</i> , 2007, 27, 6234-6242.	3.6	65
71	Extrinsic and Intrinsic Systems in the Posterior Cortex of the Human Brain Revealed during Natural Sensory Stimulation. <i>Cerebral Cortex</i> , 2007, 17, 766-777.	2.9	327
72	The measurement problem in consciousness research. <i>Behavioral and Brain Sciences</i> , 2007, 30, 516-517.	0.7	23

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73	Sub-exemplar Shape Tuning in Human Face-Related Areas. <i>Cerebral Cortex</i> , 2007, 17, 325-338.	2.9	101
74	Coupling between Neuronal Firing Rate, Gamma LFP, and BOLD fMRI Is Related to Interneuronal Correlations. <i>Current Biology</i> , 2007, 17, 1275-1285.	3.9	513
75	Widespread functional connectivity and fMRI fluctuations in human visual cortex in the absence of visual stimulation. <i>NeuroImage</i> , 2006, 30, 1313-1324.	4.2	194
76	When the Brain Loses Its Self: Prefrontal Inactivation during Sensorimotor Processing. <i>Neuron</i> , 2006, 50, 329-339.	8.1	576
77	Negative BOLD Differentiates Visual Imagery and Perception. <i>Neuron</i> , 2005, 48, 859-872.	8.1	197
78	Coupling Between Neuronal Firing, Field Potentials, and fMRI in Human Auditory Cortex. <i>Science</i> , 2005, 309, 951-954.	12.6	900
79	One Picture Is Worth at Least a Million Neurons. <i>Current Biology</i> , 2004, 14, 996-1001.	3.9	64
80	Functional analysis of the periphery effect in human building related areas. <i>Human Brain Mapping</i> , 2004, 22, 15-26.	3.6	66
81	THE HUMAN VISUAL CORTEX. <i>Annual Review of Neuroscience</i> , 2004, 27, 649-677.	10.7	941
82	Intersubject Synchronization of Cortical Activity During Natural Vision. <i>Science</i> , 2004, 303, 1634-1640.	12.6	1,487
83	Sensing the invisible: differential sensitivity of visual cortex and amygdala to traumatic context. <i>NeuroImage</i> , 2003, 19, 587-600.	4.2	201
84	Large-Scale Mirror-Symmetry Organization of Human Occipito-Temporal Object Areas. <i>Neuron</i> , 2003, 37, 1027-1041.	8.1	303
85	Contrast Sensitivity in Human Visual Areas and Its Relationship to Object Recognition. <i>Journal of Neurophysiology</i> , 2002, 87, 3102-3116.	1.8	200
86	Analysis of the Neuronal Selectivity Underlying Low fMRI Signals. <i>Current Biology</i> , 2002, 12, 964-972.	3.9	131
87	Center-“periphery organization of human object areas. <i>Nature Neuroscience</i> , 2001, 4, 533-539.	14.8	651
88	fMR-adaptation: a tool for studying the functional properties of human cortical neurons. <i>Acta Psychologica</i> , 2001, 107, 293-321.	1.5	978
89	Vase or Face? A Neural Correlate of Shape-Selective Grouping Processes in the Human Brain. <i>Journal of Cognitive Neuroscience</i> , 2001, 13, 744-753.	2.3	146
90	The dynamics of object-selective activation correlate with recognition performance in humans. <i>Nature Neuroscience</i> , 2000, 3, 837-843.	14.8	529

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91	Differential Processing of Objects under Various Viewing Conditions in the Human Lateral Occipital Complex. <i>Neuron</i> , 1999, 24, 187-203.	8.1	1,104
92	A sequence of object-processing stages revealed by fMRI in the human occipital lobe. <i>Human Brain Mapping</i> , 1998, 6, 316-328.	3.6	438
93	New images from human visual cortex. <i>Trends in Neurosciences</i> , 1996, 19, 481-489.	8.6	312
94	Visual motion aftereffect in human cortical area MT revealed by functional magnetic resonance imaging. <i>Nature</i> , 1995, 375, 139-141.	27.8	627
95	Cortical columns as devices for maximizing neuronal diversity. <i>Trends in Neurosciences</i> , 1994, 17, 101-104.	8.6	95
96	Cortical hierarchy reflected in the organization of intrinsic connections in macaque monkey visual cortex. <i>Journal of Comparative Neurology</i> , 1993, 334, 19-46.	1.6	239
97	Dendritic sampling across processing streams in monkey striate cortex. <i>Journal of Comparative Neurology</i> , 1992, 315, 303-312.	1.6	48
98	Development of visual callosal connections in neonatally enucleated rats. <i>Journal of Comparative Neurology</i> , 1987, 260, 321-348.	1.6	102