Martin I Sereno

List of Publications by Year
in descending order

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105 papers	37,412 citations	38742 50 h-index	32842 100 g-index
114 all docs	114 docs citations	114 times ranked	24616 citing authors

#	Article	IF	Citations
1	Cortical myelination in toddlers and preschoolers with autism spectrum disorder. Developmental Neurobiology, 2022, 82, 261-274.	3.0	10
2	Topological Maps and Brain Computations From Low to High. Frontiers in Systems Neuroscience, 2022, 16, .	2.5	15
3	Multiple b-values improve discrimination of cortical gray matter regions using diffusion MRI: an experimental validation with a data-driven approach. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 677-687.	2.0	2
4	Reconstructing neural representations of tactile space. NeuroImage, 2021, 229, 117730.	4.2	23
5	Inferior Occipital Gyrus Is Organized along Common Gradients of Spatial and Face-Part Selectivity. Journal of Neuroscience, 2021, 41, 5511-5521.	3.6	16
6	The human cerebellum has almost 80% of the surface area of the neocortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19538-19543.	7.1	117
7	The ventral striatum dissociates information expectation, reward anticipation, and reward receipt. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15200-15208.	7.1	26
8	Detectability of cerebellar activity with magnetoencephalography and electroencephalography. Human Brain Mapping, 2020, 41, 2357-2372.	3.6	36
9	Altered visual population receptive fields in human albinism. Cortex, 2020, 128, 107-123.	2.4	4
10	Fine-Grained Mapping of Cortical Somatotopies in Chronic Complex Regional Pain Syndrome. Journal of Neuroscience, 2019, 39, 9185-9196.	3.6	43
11	Glassy carbon microelectrodes minimize induced voltages, mechanical vibrations, and artifacts in magnetic resonance imaging. Microsystems and Nanoengineering, 2019, 5, 61.	7.0	19
12	Unraveling the spatiotemporal brain dynamics during a simulated reach-to-eat task. NeuroImage, 2019, 185, 58-71.	4.2	9
13	Microstructural parcellation of the human brain. NeuroImage, 2018, 182, 219-231.	4.2	24
14	Spatiotemporal integration of looming visual and tactile stimuli near the face. Human Brain Mapping, 2018, 39, 2156-2176.	3.6	10
15	Using diffusion MRI to discriminate areas of cortical grey matter. NeuroImage, 2018, 182, 456-468.	4.2	31
16	Visually-Driven Maps in Area 3b. Journal of Neuroscience, 2018, 38, 1295-1310.	3.6	45
17	Modelling the Human Cortex in Three Dimensions. Trends in Cognitive Sciences, 2018, 22, 1073-1075.	7.8	25
18	Visual loss alters multisensory face maps in humans. Brain Structure and Function, 2018, 223, 3731-3738.	2.3	3

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19	Learning of goal-relevant and -irrelevant complex visual sequences in human V1. NeuroImage, 2018, 179, 215-224.	4.2	10
20	Multisensory and sensorimotor maps. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 151, 141-161.	1.8	37
21	A Digital App to Aid Detection, Monitoring, and Management of Dyslexia in Young Children (DIMMAND): Protocol for a Digital Health and Education Solution. JMIR Research Protocols, 2018, 7, e135.	1.0	13
22	Functional and Quantitative MRI Mapping of Somatomotor Representations of Human Supralaryngeal Vocal Tract. Cerebral Cortex, 2017, 27, 265-278.	2.9	49
23	Validation of periodic fMRI signals in response to wearable tactile stimulation. NeuroImage, 2017, 150, 99-111.	4.2	18
24	Mapping the complex topological organization of the human parietal face area. NeuroImage, 2017, 163, 459-470.	4.2	20
25	Extensive Tonotopic Mapping across Auditory Cortex Is Recapitulated by Spectrally Directed Attention and Systematically Related to Cortical Myeloarchitecture. Journal of Neuroscience, 2017, 37, 12187-12201.	3.6	27
26	Body Topography Parcellates Human Sensory and Motor Cortex. Cerebral Cortex, 2017, 27, 3790-3805.	2.9	75
27	An Unsupervised Group Average Cortical Parcellation Using Diffusion MRI to Probe Cytoarchitecture. Mathematics and Visualization, 2017, , 145-156.	0.6	0
28	LSD alters eyesâ€closed functional connectivity within the early visual cortex in a retinotopic fashion. Human Brain Mapping, 2016, 37, 3031-3040.	3.6	42
29	Neural correlates of the LSD experience revealed by multimodal neuroimaging. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4853-4858.	7.1	586
30	Areas activated during naturalistic reading comprehension overlap topological visual, auditory, and somatotomotor maps. Human Brain Mapping, 2016, 37, 2784-2810.	3.6	30
31	Controversial issues in visual cortex mapping: Extrastriate cortex between areas V2 and MT in human and nonhuman primates. Visual Neuroscience, 2015, 32, E025.	1.0	9
32	Retinotopic organization of extrastriate cortex in the owl monkeyâ€”dorsal and lateral areas. Visual Neuroscience, 2015, 32, E021.	1.0	24
33	Whole-Brain In-vivo Measurements of the Axonal G-Ratio in a Group of 37 Healthy Volunteers. Frontiers in Neuroscience, 2015, 9, 441.	2.8	97
34	Late Development of Cue Integration Is Linked to Sensory Fusion in Cortex. Current Biology, 2015, 25, 2856-2861.	3.9	59
35	Neural Substrates Underlying the Passive Observation and Active Control of Translational Egomotion. Journal of Neuroscience, 2015, 35, 4258-4267.	3.6	28
36	Observed, Executed, and Imagined Action Representations can be Decoded From Ventral and Dorsal Areas. Cerebral Cortex, 2015, 25, 3144-3158.	2.9	71

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37	Eye position modulates retinotopic responses in early visual areas: a bias for the straight-ahead direction. Brain Structure and Function, 2015, 220, 2587-2601.	2.3	20
38	Picturing words? Sensorimotor cortex activation for printed words in child and adult readers. Brain and Language, 2014, 139, 58-67.	1.6	19
39	Origin of symbol-using systems: speech, but not sign, without the semantic urge. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130303.	4.0	9
40	Multisensory maps in parietal cortex. Current Opinion in Neurobiology, 2014, 24, 39-46.	4.2	145
41	Using high-resolution quantitative mapping of R1 as an index of cortical myelination. NeuroImage, 2014, 93, 176-188.	4.2	299
42	Microstructural differences in the thalamus and thalamic radiations in the congenitally deaf. NeuroImage, 2014, 100, 347-357.	4.2	26
43	Mapping the Human Cortical Surface by Combining Quantitative T1 with Retinotopyâ€. Cerebral Cortex, 2013, 23, 2261-2268.	2.9	236
44	Speech versus Song: Multiple Pitch-Sensitive Areas Revealed by a Naturally Occurring Musical Illusion. Cerebral Cortex, 2013, 23, 249-254.	2.9	88
45	Using High Angular Resolution Diffusion Imaging Data to Discriminate Cortical Regions. PLoS ONE, 2013, 8, e63842.	2.5	37
46	Bottom-up Retinotopic Organization Supports Top-down Mental Imagery. Open Neuroimaging Journal, 2013, 7, 58-67.	0.2	38
47	In VivoFunctional and Myeloarchitectonic Mapping of Human Primary Auditory Areas. Journal of Neuroscience, 2012, 32, 16095-16105.	3.6	206
48	Mapping multisensory parietal face and body areas in humans. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18114-18119.	7.1	112
49	Fine-Grained Nociceptive Maps in Primary Somatosensory Cortex. Journal of Neuroscience, 2012, 32, 17155-17162.	3.6	108
50	Rearranging the world: Neural network supporting the processing of temporal connectives. NeuroImage, 2012, 59, 3662-3667.	4.2	24
51	Dorsal and ventral stream activation and object recognition performance in school-age children. NeuroImage, 2011, 57, 659-670.	4.2	44
52	Dissociation of Sensitivity to Spatial Frequency in Word and Face Preferential Areas of the Fusiform Gyrus. Cerebral Cortex, 2011, 21, 2307-2312.	2.9	71
53	Human V6: The Medial Motion Area. Cerebral Cortex, 2010, 20, 411-424.	2.9	187
54	The Relation between Connection Length and Degree of Connectivity in Young Adults: A DTI Analysis. Cerebral Cortex, 2009, 19, 554-562.	2.9	44

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55	Multiple Parietal Reach Regions in Humans: Cortical Representations for Visual and Proprioceptive Feedback during On-Line Reaching. Journal of Neuroscience, 2009, 29, 2961-2971.	3.6	223
56	Visual stimulus presentation using fiber optics in the MRI scanner. Journal of Neuroscience Methods, 2008, 169, 76-83.	2.5	8
57	Retinotopy and Attention in Human Occipital, Temporal, Parietal, and Frontal Cortex. Cerebral Cortex, 2008, 18, 2158-2168.	2.9	177
58	Dodecapus: An MR-compatible system for somatosensory stimulation. NeuroImage, 2007, 34, 1060-1073.	4.2	81
59	Parietal and superior frontal visuospatial maps activated by pointing and saccades. NeuroImage, 2007, 35, 1562-1577.	4.2	165
60	Human cortical representations for reaching: Mirror neurons for execution, observation, and imagery. NeuroImage, 2007, 37, 1315-1328.	4.2	501
61	Mental processes and strategic equilibration: An fMRI study of selling strategies in second price auctions. Experimental Economics, 2007, 10, 105-122.	2.1	12
62	Spatial maps in frontal and prefrontal cortex. NeuroImage, 2006, 29, 567-577.	4.2	214
63	Smoothing and cluster thresholding for cortical surface-based group analysis of fMRI data. NeuroImage, 2006, 33, 1093-1103.	4.2	681
64	A human parietal face area contains aligned head-centered visual and tactile maps. Nature Neuroscience, 2006, 9, 1337-1343.	14.8	289
65	Wide-Field Retinotopy Defines Human Cortical Visual Area V6. Journal of Neuroscience, 2006, 26, 7962-7973.	3.6	252
66	Plasticity and its limits. Nature, 2005, 435, 288-289.	27.8	36
67	Neural organization for recognition of grammatical and emotional facial expressions in deaf ASL signers and hearing nonsigners. Cognitive Brain Research, 2005, 22, 193-203.	3.0	92
68	From monkeys to humans: what do we now know about brain homologies?. Current Opinion in Neurobiology, 2005, 15, 135-144.	4.2	185
69	Point-Light Biological Motion Perception Activates Human Premotor Cortex. Journal of Neuroscience, 2004, 24, 6181-6188.	3.6	381
70	Tonotopic Organization in Human Auditory Cortex Revealed by Progressions of Frequency Sensitivity. Journal of Neurophysiology, 2004, 91, 1282-1296.	1.8	281
71	Listening to speech activates motor areas involved in speech production. Nature Neuroscience, 2004, 7, 701-702.	14.8	807
72	Voxel-based lesionâ€“symptom mapping. Nature Neuroscience, 2003, 6, 448-450.	14.8	1,283

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73	Cortical sources of the early components of the visual evoked potential. Human Brain Mapping, 2002, 15, 95-111.	3.6	957
74	Putting spatial attention on the map: timing and localization of stimulus selection processes in striate and extrastriate visual areas. Vision Research, 2001, 41, 1437-1457.	1.4	284
75	Mapping of Contralateral Space in Retinotopic Coordinates by a Parietal Cortical Area in Humans. Science, 2001, 294, 1350-1354.	12.6	744
76	Current approaches to mapping language in electromagnetic space. , 2000, , 359-392.		17
77	Semantic integration in reading: engagement of the right hemisphere during discourse processing. Brain, 1999, 122, 1317-1325.	7.6	311
78	Involvement of striate and extrastriate visual cortical areas in spatial attention. Nature Neuroscience, 1999, 2, 364-369.	14.8	879
79	Location of human face-selective cortex with respect to retinotopic areas. Human Brain Mapping, 1999, 7, 29-37.	3.6	273
80	High-resolution intersubject averaging and a coordinate system for the cortical surface. Human Brain Mapping, 1999, 8, 272-284.	3.6	2,757
81	Cortical Surface-Based Analysis. NeuroImage, 1999, 9, 179-194.	4.2	9,194
82	Cortical Surface-Based Analysis. NeuroImage, 1999, 9, 195-207.	4.2	5,599
83	2-D center-surround effects on 3-D structure-from-motion.. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 1834-1854.	0.9	15
84	Location of human faceâ€šselective cortex with respect to retinotopic areas. Human Brain Mapping, 1999, 7, 29-37.	3.6	2
85	High-resolution intersubject averaging and a coordinate system for the cortical surface. , 1999, 8, 272.		17
86	2-D center-surround effects on 3-D structure-from-motion.. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 1834-1854.	0.9	11
87	Brain mapping in animals and humans. Current Opinion in Neurobiology, 1998, 8, 188-194.	4.2	48
88	Direction selectivity in the middle lateral and lateral (ML and L) visual areas in the California ground squirrel. Cerebral Cortex, 1998, 8, 362-371.	2.9	33
89	Functional analysis of primary visual cortex (V1) in humans. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 811-817.	7.1	415
90	Functional Analysis of V3A and Related Areas in Human Visual Cortex. Journal of Neuroscience, 1997, 17, 7060-7078.	3.6	742

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91	Representation of motion boundaries in retinotopic human visual cortical areas. Nature, 1997, 388, 175-179.	27.8	112
92	New images from human visual cortex. Trends in Neurosciences, 1996, 19, 481-489.	8.6	312
93	The Search for â€œCommon Senseâ€: An Electrophysiological Study of the Comprehension of Words and Pictures in Reading. Journal of Cognitive Neuroscience, 1996, 8, 89-106.	2.3	312
94	Visual motion aftereffect in human cortical area MT revealed by functional magnetic resonance imaging. Nature, 1995, 375, 139-141.	27.8	627
95	Borders of multiple visual areas in humans revealed by functional magnetic resonance imaging. Science, 1995, 268, 889-893.	12.6	2,447
96	Analysis of Retinotopic Maps in Extrastriate Cortex. Cerebral Cortex, 1994, 4, 601-620.	2.9	182
97	Emergence of Position-Independent Detectors of Sense of Rotation and Dilation with Hebbian Learning: An Analysis. Neural Computation, 1993, 5, 597-612.	2.2	54
98	Improved Localizadon of Cortical Activity by Combining EEG and MEG with MRI Cortical Surface Reconstruction: A Linear Approach. Journal of Cognitive Neuroscience, 1993, 5, 162-176.	2.3	1,811
99	Four analogies between biological and cultural/linguistic evolution. Journal of Theoretical Biology, 1991, 151, 467-507.	1.7	77
100	Philosophy and the Brain.J. Z. Young , Keith Thomas. Quarterly Review of Biology, 1988, 63, 115-116.	0.1	0
101	Caudal topographic nucleus isthmi and the rostral nontopographic nucleus isthmi in the turtle,pseudemys scripta. Journal of Comparative Neurology, 1987, 261, 319-346.	1.6	69
102	A program for the neurobiology of mind. Inquiry (United Kingdom), 1986, 29, 217-240.	0.9	6
103	Tectoreticular pathways in the turtle,Pseudemys scripta. I. Morphology of tectoreticular axons. Journal of Comparative Neurology, 1985, 233, 48-90.	1.6	39
104	Tectoreticular pathways in the turtle,Pseudemys scripta. II. Morphology of tectoreticular cells. Journal of Comparative Neurology, 1985, 233, 91-114.	1.6	19
105	Anti-Hebbian synapses as a linear equation solver. , 0, , .		3