

# Martin I Sereno

## List of Publications by Year in descending order

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105  
papers

37,412  
citations

41258

49  
h-index

34900

98  
g-index

114  
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114  
docs citations

114  
times ranked

24616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical myelination in toddlers and preschoolers with autism spectrum disorder. <i>Developmental Neurobiology</i> , 2022, 82, 261-274.	1.5	10
2	Topological Maps and Brain Computations From Low to High. <i>Frontiers in Systems Neuroscience</i> , 2022, 16, .	1.2	15
3	Multiple b-values improve discrimination of cortical gray matter regions using diffusion MRI: an experimental validation with a data-driven approach. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 677-687.	1.1	2
4	Reconstructing neural representations of tactile space. <i>NeuroImage</i> , 2021, 229, 117730.	2.1	23
5	Inferior Occipital Gyrus Is Organized along Common Gradients of Spatial and Face-Part Selectivity. <i>Journal of Neuroscience</i> , 2021, 41, 5511-5521.	1.7	16
6	The human cerebellum has almost 80% of the surface area of the neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19538-19543.	3.3	117
7	The ventral striatum dissociates information expectation, reward anticipation, and reward receipt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15200-15208.	3.3	26
8	Detectability of cerebellar activity with magnetoencephalography and electroencephalography. <i>Human Brain Mapping</i> , 2020, 41, 2357-2372.	1.9	36
9	Altered visual population receptive fields in human albinism. <i>Cortex</i> , 2020, 128, 107-123.	1.1	4
10	Fine-Grained Mapping of Cortical Somatotopies in Chronic Complex Regional Pain Syndrome. <i>Journal of Neuroscience</i> , 2019, 39, 9185-9196.	1.7	43
11	Glassy carbon microelectrodes minimize induced voltages, mechanical vibrations, and artifacts in magnetic resonance imaging. <i>Microsystems and Nanoengineering</i> , 2019, 5, 61.	3.4	19
12	Unraveling the spatiotemporal brain dynamics during a simulated reach-to-eat task. <i>NeuroImage</i> , 2019, 185, 58-71.	2.1	9
13	Microstructural parcellation of the human brain. <i>NeuroImage</i> , 2018, 182, 219-231.	2.1	24
14	Spatiotemporal integration of looming visual and tactile stimuli near the face. <i>Human Brain Mapping</i> , 2018, 39, 2156-2176.	1.9	10
15	Using diffusion MRI to discriminate areas of cortical grey matter. <i>NeuroImage</i> , 2018, 182, 456-468.	2.1	31
16	Visually-Driven Maps in Area 3b. <i>Journal of Neuroscience</i> , 2018, 38, 1295-1310.	1.7	45
17	Modelling the Human Cortex in Three Dimensions. <i>Trends in Cognitive Sciences</i> , 2018, 22, 1073-1075.	4.0	25
18	Visual loss alters multisensory face maps in humans. <i>Brain Structure and Function</i> , 2018, 223, 3731-3738.	1.2	3

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19	Learning of goal-relevant and -irrelevant complex visual sequences in human V1. <i>NeuroImage</i> , 2018, 179, 215-224.	2.1	10
20	Multisensory and sensorimotor maps. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 151, 141-161.	1.0	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. <i>JMIR Research Protocols</i> , 2018, 7, e135.	0.5	13
22	Functional and Quantitative MRI Mapping of Somatomotor Representations of Human Supralaryngeal Vocal Tract. <i>Cerebral Cortex</i> , 2017, 27, 265-278.	1.6	49
23	Validation of periodic fMRI signals in response to wearable tactile stimulation. <i>NeuroImage</i> , 2017, 150, 99-111.	2.1	18
24	Mapping the complex topological organization of the human parietal face area. <i>NeuroImage</i> , 2017, 163, 459-470.	2.1	20
25	Extensive Tonotopic Mapping across Auditory Cortex Is Recapitulated by Spectrally Directed Attention and Systematically Related to Cortical Myeloarchitecture. <i>Journal of Neuroscience</i> , 2017, 37, 12187-12201.	1.7	27
26	Body Topography Parcellates Human Sensory and Motor Cortex. <i>Cerebral Cortex</i> , 2017, 27, 3790-3805.	1.6	75
27	An Unsupervised Group Average Cortical Parcellation Using Diffusion MRI to Probe Cytoarchitecture. <i>Mathematics and Visualization</i> , 2017, , 145-156.	0.4	0
28	LSD alters eyesâ€closed functional connectivity within the early visual cortex in a retinotopic fashion. <i>Human Brain Mapping</i> , 2016, 37, 3031-3040.	1.9	42
29	Neural correlates of the LSD experience revealed by multimodal neuroimaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4853-4858.	3.3	586
30	Areas activated during naturalistic reading comprehension overlap topological visual, auditory, and somatotomotor maps. <i>Human Brain Mapping</i> , 2016, 37, 2784-2810.	1.9	30
31	Controversial issues in visual cortex mapping: Extrastriate cortex between areas V2 and MT in human and nonhuman primates. <i>Visual Neuroscience</i> , 2015, 32, E025.	0.5	9
32	Retinotopic organization of extrastriate cortex in the owl monkeyâ€dorsal and lateral areas. <i>Visual Neuroscience</i> , 2015, 32, E021.	0.5	24
33	Whole-Brain In-vivo Measurements of the Axonal G-Ratio in a Group of 37 Healthy Volunteers. <i>Frontiers in Neuroscience</i> , 2015, 9, 441.	1.4	97
34	Late Development of Cue Integration Is Linked to Sensory Fusion in Cortex. <i>Current Biology</i> , 2015, 25, 2856-2861.	1.8	59
35	Neural Substrates Underlying the Passive Observation and Active Control of Translational Egomotion. <i>Journal of Neuroscience</i> , 2015, 35, 4258-4267.	1.7	28
36	Observed, Executed, and Imagined Action Representations can be Decoded From Ventral and Dorsal Areas. <i>Cerebral Cortex</i> , 2015, 25, 3144-3158.	1.6	71

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37	Eye position modulates retinotopic responses in early visual areas: a bias for the straight-ahead direction. <i>Brain Structure and Function</i> , 2015, 220, 2587-2601.	1.2	20
38	Picturing words? Sensorimotor cortex activation for printed words in child and adult readers. <i>Brain and Language</i> , 2014, 139, 58-67.	0.8	19
39	Origin of symbol-using systems: speech, but not sign, without the semantic urge. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130303.	1.8	9
40	Multisensory maps in parietal cortex. <i>Current Opinion in Neurobiology</i> , 2014, 24, 39-46.	2.0	145
41	Using high-resolution quantitative mapping of R1 as an index of cortical myelination. <i>NeuroImage</i> , 2014, 93, 176-188.	2.1	299
42	Microstructural differences in the thalamus and thalamic radiations in the congenitally deaf. <i>NeuroImage</i> , 2014, 100, 347-357.	2.1	26
43	Mapping the Human Cortical Surface by Combining Quantitative T1 with Retinotopy. <i>Cerebral Cortex</i> , 2013, 23, 2261-2268.	1.6	236
44	Speech versus Song: Multiple Pitch-Sensitive Areas Revealed by a Naturally Occurring Musical Illusion. <i>Cerebral Cortex</i> , 2013, 23, 249-254.	1.6	88
45	Using High Angular Resolution Diffusion Imaging Data to Discriminate Cortical Regions. <i>PLoS ONE</i> , 2013, 8, e63842.	1.1	37
46	Bottom-up Retinotopic Organization Supports Top-down Mental Imagery. <i>Open Neuroimaging Journal</i> , 2013, 7, 58-67.	0.2	38
47	<i>In Vivo</i> Functional and Myeloarchitectonic Mapping of Human Primary Auditory Areas. <i>Journal of Neuroscience</i> , 2012, 32, 16095-16105.	1.7	206
48	Mapping multisensory parietal face and body areas in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18114-18119.	3.3	112
49	Fine-Grained Nociceptive Maps in Primary Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2012, 32, 17155-17162.	1.7	108
50	Rearranging the world: Neural network supporting the processing of temporal connectives. <i>NeuroImage</i> , 2012, 59, 3662-3667.	2.1	24
51	Dorsal and ventral stream activation and object recognition performance in school-age children. <i>NeuroImage</i> , 2011, 57, 659-670.	2.1	44
52	Dissociation of Sensitivity to Spatial Frequency in Word and Face Preferential Areas of the Fusiform Gyrus. <i>Cerebral Cortex</i> , 2011, 21, 2307-2312.	1.6	71
53	Human V6: The Medial Motion Area. <i>Cerebral Cortex</i> , 2010, 20, 411-424.	1.6	187
54	The Relation between Connection Length and Degree of Connectivity in Young Adults: A DTI Analysis. <i>Cerebral Cortex</i> , 2009, 19, 554-562.	1.6	44

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55	Multiple Parietal Reach Regions in Humans: Cortical Representations for Visual and Proprioceptive Feedback during On-Line Reaching. <i>Journal of Neuroscience</i> , 2009, 29, 2961-2971.	1.7	223
56	Visual stimulus presentation using fiber optics in the MRI scanner. <i>Journal of Neuroscience Methods</i> , 2008, 169, 76-83.	1.3	8
57	Retinotopy and Attention in Human Occipital, Temporal, Parietal, and Frontal Cortex. <i>Cerebral Cortex</i> , 2008, 18, 2158-2168.	1.6	177
58	Dodecapus: An MR-compatible system for somatosensory stimulation. <i>NeuroImage</i> , 2007, 34, 1060-1073.	2.1	81
59	Parietal and superior frontal visuospatial maps activated by pointing and saccades. <i>NeuroImage</i> , 2007, 35, 1562-1577.	2.1	165
60	Human cortical representations for reaching: Mirror neurons for execution, observation, and imagery. <i>NeuroImage</i> , 2007, 37, 1315-1328.	2.1	501
61	Mental processes and strategic equilibration: An fMRI study of selling strategies in second price auctions. <i>Experimental Economics</i> , 2007, 10, 105-122.	1.0	12
62	Spatial maps in frontal and prefrontal cortex. <i>NeuroImage</i> , 2006, 29, 567-577.	2.1	214
63	Smoothing and cluster thresholding for cortical surface-based group analysis of fMRI data. <i>NeuroImage</i> , 2006, 33, 1093-1103.	2.1	681
64	A human parietal face area contains aligned head-centered visual and tactile maps. <i>Nature Neuroscience</i> , 2006, 9, 1337-1343.	7.1	289
65	Wide-Field Retinotopy Defines Human Cortical Visual Area V6. <i>Journal of Neuroscience</i> , 2006, 26, 7962-7973.	1.7	252
66	Plasticity and its limits. <i>Nature</i> , 2005, 435, 288-289.	13.7	36
67	Neural organization for recognition of grammatical and emotional facial expressions in deaf ASL signers and hearing nonsigners. <i>Cognitive Brain Research</i> , 2005, 22, 193-203.	3.3	92
68	From monkeys to humans: what do we now know about brain homologies?. <i>Current Opinion in Neurobiology</i> , 2005, 15, 135-144.	2.0	185
69	Point-Light Biological Motion Perception Activates Human Premotor Cortex. <i>Journal of Neuroscience</i> , 2004, 24, 6181-6188.	1.7	381
70	Tonotopic Organization in Human Auditory Cortex Revealed by Progressions of Frequency Sensitivity. <i>Journal of Neurophysiology</i> , 2004, 91, 1282-1296.	0.9	281
71	Listening to speech activates motor areas involved in speech production. <i>Nature Neuroscience</i> , 2004, 7, 701-702.	7.1	807
72	Voxel-based lesion-symptom mapping. <i>Nature Neuroscience</i> , 2003, 6, 448-450.	7.1	1,283

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73	Cortical sources of the early components of the visual evoked potential. <i>Human Brain Mapping</i> , 2002, 15, 95-111.	1.9	957
74	Putting spatial attention on the map: timing and localization of stimulus selection processes in striate and extrastriate visual areas. <i>Vision Research</i> , 2001, 41, 1437-1457.	0.7	284
75	Mapping of Contralateral Space in Retinotopic Coordinates by a Parietal Cortical Area in Humans. <i>Science</i> , 2001, 294, 1350-1354.	6.0	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. <i>Brain</i> , 1999, 122, 1317-1325.	3.7	311
78	Involvement of striate and extrastriate visual cortical areas in spatial attention. <i>Nature Neuroscience</i> , 1999, 2, 364-369.	7.1	879
79	Location of human face-selective cortex with respect to retinotopic areas. <i>Human Brain Mapping</i> , 1999, 7, 29-37.	1.9	273
80	High-resolution intersubject averaging and a coordinate system for the cortical surface. , 1999, 8, 272-284.		2,757
81	Cortical Surface-Based Analysis. <i>NeuroImage</i> , 1999, 9, 179-194.	2.1	9,194
82	Cortical Surface-Based Analysis. <i>NeuroImage</i> , 1999, 9, 195-207.	2.1	5,599
83	2-D center-surround effects on 3-D structure-from-motion.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1999, 25, 1834-1854.	0.7	15
84	Location of human face-selective cortex with respect to retinotopic areas. , 1999, 7, 29.		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. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1999, 25, 1834-54.	0.7	11
87	Brain mapping in animals and humans. <i>Current Opinion in Neurobiology</i> , 1998, 8, 188-194.	2.0	48
88	Direction selectivity in the middle lateral and lateral (ML and L) visual areas in the California ground squirrel. <i>Cerebral Cortex</i> , 1998, 8, 362-371.	1.6	33
89	Functional analysis of primary visual cortex (V1) in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 811-817.	3.3	415
90	Functional Analysis of V3A and Related Areas in Human Visual Cortex. <i>Journal of Neuroscience</i> , 1997, 17, 7060-7078.	1.7	742

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91	Representation of motion boundaries in retinotopic human visual cortical areas. <i>Nature</i> , 1997, 388, 175-179.	13.7	112
92	New images from human visual cortex. <i>Trends in Neurosciences</i> , 1996, 19, 481-489.	4.2	312
93	The Search for "Common Sense": An Electrophysiological Study of the Comprehension of Words and Pictures in Reading. <i>Journal of Cognitive Neuroscience</i> , 1996, 8, 89-106.	1.1	312
94	Visual motion aftereffect in human cortical area MT revealed by functional magnetic resonance imaging. <i>Nature</i> , 1995, 375, 139-141.	13.7	627
95	Borders of multiple visual areas in humans revealed by functional magnetic resonance imaging. <i>Science</i> , 1995, 268, 889-893.	6.0	2,447
96	Analysis of Retinotopic Maps in Extrastriate Cortex. <i>Cerebral Cortex</i> , 1994, 4, 601-620.	1.6	182
97	Emergence of Position-Independent Detectors of Sense of Rotation and Dilation with Hebbian Learning: An Analysis. <i>Neural Computation</i> , 1993, 5, 597-612.	1.3	54
98	Improved Localizadon of Cortical Activity by Combining EEG and MEG with MRI Cortical Surface Reconstruction: A Linear Approach. <i>Journal of Cognitive Neuroscience</i> , 1993, 5, 162-176.	1.1	1,811
99	Four analogies between biological and cultural/linguistic evolution. <i>Journal of Theoretical Biology</i> , 1991, 151, 467-507.	0.8	77
100	Philosophy and the Brain. J. Z. Young , Keith Thomas. <i>Quarterly Review of Biology</i> , 1988, 63, 115-116.	0.0	0
101	Caudal topographic nucleus isthmi and the rostral nontopographic nucleus isthmi in the turtle, <i>pseudemys scripta</i> . <i>Journal of Comparative Neurology</i> , 1987, 261, 319-346.	0.9	69
102	A program for the neurobiology of mind. <i>Inquiry (United Kingdom)</i> , 1986, 29, 217-240.	0.4	6
103	Tectoreticular pathways in the turtle, <i>Pseudemys scripta</i> . I. Morphology of tectoreticular axons. <i>Journal of Comparative Neurology</i> , 1985, 233, 48-90.	0.9	39
104	Tectoreticular pathways in the turtle, <i>Pseudemys scripta</i> . II. Morphology of tectoreticular cells. <i>Journal of Comparative Neurology</i> , 1985, 233, 91-114.	0.9	19
105	Anti-Hebbian synapses as a linear equation solver. , 0, , .		3