

David C Somers

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

4,937
citations

236925

25
h-index

168389

53
g-index

60
all docs

60
docs citations

60
times ranked

4109
citing authors

#	ARTICLE	IF	CITATIONS
1	An emergent model of orientation selectivity in cat visual cortical simple cells. <i>Journal of Neuroscience</i> , 1995, 15, 5448-5465.	3.6	783
2	Functional MRI reveals spatially specific attentional modulation in human primary visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 1663-1668.	7.1	618
3	Visual Topography of Human Intraparietal Sulcus. <i>Journal of Neuroscience</i> , 2007, 27, 5326-5337.	3.6	429
4	Rapid synchronization through fast threshold modulation. <i>Biological Cybernetics</i> , 1993, 68, 393-407.	1.3	380
5	Synchronized oscillations during cooperative feature linking in a cortical model of visual perception. <i>Neural Networks</i> , 1991, 4, 453-466.	5.9	260
6	Multiple Spotlights of Attentional Selection in Human Visual Cortex. <i>Neuron</i> , 2004, 42, 677-686.	8.1	259
7	A local circuit approach to understanding integration of long-range inputs in primary visual cortex. <i>Cerebral Cortex</i> , 1998, 8, 204-217.	2.9	176
8	What blindness can tell us about seeing again: merging neuroplasticity and neuroprostheses. <i>Nature Reviews Neuroscience</i> , 2005, 6, 71-77.	10.2	160
9	Subthreshold facilitation and suppression in primary visual cortex revealed by intrinsic signal imaging.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 9869-9874.	7.1	153
10	Combined Activation and Deactivation of Visual Cortex During Tactile Sensory Processing. <i>Journal of Neurophysiology</i> , 2007, 97, 1633-1641.	1.8	132
11	Short-Term Memory for Space and Time Flexibly Recruit Complementary Sensory-Biased Frontal Lobe Attention Networks. <i>Neuron</i> , 2015, 87, 882-892.	8.1	119
12	Functional Evidence for a Cerebellar Node of the Dorsal Attention Network. <i>Journal of Neuroscience</i> , 2016, 36, 6083-6096.	3.6	119
13	Hemispheric Asymmetry in Visuotopic Posterior Parietal Cortex Emerges with Visual Short-Term Memory Load. <i>Journal of Neuroscience</i> , 2010, 30, 12581-12588.	3.6	105
14	Functional MRI Studies of Human Visual Motion Perception: Texture, Luminance, Attention and After-effects. <i>Cerebral Cortex</i> , 2003, 13, 340-349.	2.9	103
15	Processing Efficiency of Divided Spatial Attention Mechanisms in Human Visual Cortex. <i>Journal of Neuroscience</i> , 2005, 25, 9444-9448.	3.6	98
16	Waves and synchrony in networks of oscillators of relaxation and non-relaxation type. <i>Physica D: Nonlinear Phenomena</i> , 1995, 89, 169-183.	2.8	83
17	Topographic Cortico-cerebellar Networks Revealed by Visual Attention and Working Memory. <i>Current Biology</i> , 2018, 28, 3364-3372.e5.	3.9	78
18	Effects of target enhancement and distractor suppression on multiple object tracking capacity. <i>Journal of Vision</i> , 2009, 9, 9-9.	0.3	77

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19	Auditory Spatial Attention Representations in the Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2014, 24, 773-784.	2.9	76
20	Cognitive Control Network Contributions to Memory-Guided Visual Attention. <i>Cerebral Cortex</i> , 2016, 26, 2059-2073.	2.9	61
21	Cortico-cerebellar networks for visual attention and working memory. <i>Current Opinion in Psychology</i> , 2019, 29, 239-247.	4.9	50
22	Sensory-Biased and Multiple-Demand Processing in Human Lateral Frontal Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 8755-8766.	3.6	46
23	Auditory Spatial Coding Flexibly Recruits Anterior, but Not Posterior, Visuotopic Parietal Cortex. <i>Cerebral Cortex</i> , 2016, 26, 1302-1308.	2.9	41
24	The horizontal tuning of face perception relies on the processing of intermediate and high spatial frequencies. <i>Journal of Vision</i> , 2011, 11, 1-1.	0.3	40
25	Delayed match to object or place: An event-related fMRI study of short-term stimulus maintenance and the role of stimulus pre-exposure. <i>NeuroImage</i> , 2008, 39, 857-872.	4.2	36
26	Prediction of individualized task activation in sensory modality-selective frontal cortex with connectome fingerprinting™. <i>NeuroImage</i> , 2018, 183, 173-185.	4.2	36
27	Visual Short-Term Memory Activity in Parietal Lobe Reflects Cognitive Processes beyond Attentional Selection. <i>Journal of Neuroscience</i> , 2018, 38, 1511-1519.	3.6	31
28	Toward Neuroscience of the Everyday World (NEW) using functional near-infrared spectroscopy. <i>Current Opinion in Biomedical Engineering</i> , 2021, 18, 100272.	3.4	31
29	Sensory-biased attention networks in human lateral frontal cortex revealed by intrinsic functional connectivity. <i>NeuroImage</i> , 2017, 162, 362-372.	4.2	30
30	Stimulus-Specific Visual Working Memory Representations in Human Cerebellar Lobule VIIb/VIIIa. <i>Journal of Neuroscience</i> , 2021, 41, 1033-1045.	3.6	29
31	Functional correlates of optic flow motion processing in Parkinson's disease. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 57.	2.1	28
32	Cortical and Subcortical Contributions to Long-Term Memory-Guided Visuospatial Attention. <i>Cerebral Cortex</i> , 2018, 28, 2935-2947.	2.9	27
33	Predicting an individual's dorsal attention network activity from functional connectivity fingerprints. <i>Journal of Neurophysiology</i> , 2019, 122, 232-240.	1.8	26
34	Attention maps in the brain. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2013, 4, 327-340.	2.8	24
35	Multiple mechanisms of illusory contour perception. <i>Journal of Vision</i> , 2008, 8, 17-17.	0.3	22
36	Characterizing Visual Field Deficits in Cerebral/Cortical Visual Impairment (CVI) Using Combined Diffusion Based Imaging and Functional Retinotopic Mapping: A Case Study. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 13.	2.5	18

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37	Shared filtering processes link attentional and visual short-term memory capacity limits. <i>Journal of Vision</i> , 2011, 11, 22-22.	0.3	17
38	Straightness as a cue for luminance edge interpretation. <i>Perception & Psychophysics</i> , 2005, 67, 120-128.	2.3	16
39	Influences of Long-Term Memory-Guided Attention and Stimulus-Guided Attention on Visuospatial Representations within Human Intraparietal Sulcus. <i>Journal of Neuroscience</i> , 2015, 35, 11358-11363.	3.6	15
40	Long-term memory guidance of visuospatial attention in a change-detection paradigm. <i>Frontiers in Psychology</i> , 2014, 5, 266.	2.1	13
41	Extended Frontal Networks for Visual and Auditory Working Memory. <i>Cerebral Cortex</i> , 2022, 32, 855-869.	2.9	12
42	Gradients of functional organization in posterior parietal cortex revealed by visual attention, visual short-term memory, and intrinsic functional connectivity. <i>NeuroImage</i> , 2020, 219, 117029.	4.2	10
43	Visuospatial Attention to Single and Multiple Objects Is Independently Impaired in Parkinson's Disease. <i>PLoS ONE</i> , 2016, 11, e0150013.	2.5	10
44	Individual subject approaches to mapping sensory-biased and multiple-demand regions in human frontal cortex. <i>Current Opinion in Behavioral Sciences</i> , 2021, 40, 169-177.	3.9	9
45	Neural correlates associated with impaired global motion perception in cerebral visual impairment (CVI). <i>NeuroImage: Clinical</i> , 2021, 32, 102821.	2.7	8
46	Attention and Default Mode Network Assessments of Meditation Experience during Active Cognition and Rest. <i>Brain Sciences</i> , 2021, 11, 566.	2.3	7
47	Short-term memory stores organized by information domain. <i>Attention, Perception, and Psychophysics</i> , 2016, 78, 960-970.	1.3	6
48	Identification of Visual Attentional Regions of the Temporoparietal Junction in Individual Subjects using a Vivid, Novel Oddball Paradigm. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 424.	2.0	5
49	Cerebellar Contributions to Visual Attention and Visual Working Memory Revealed by Functional MRI and Intrinsic Functional Connectivity. <i>Journal of Vision</i> , 2015, 15, 232.	0.3	5
50	Structural and functional connectivity of visual and auditory attentional networks: insights from the Human Connectome Project. <i>Journal of Vision</i> , 2015, 15, 223.	0.3	4
51	Kinesthetic visual capture induced by apparent motion. <i>Journal of Vision</i> , 2010, 3, 35-35.	0.3	4
52	Straightness, structure, and shadows. <i>Journal of Vision</i> , 2010, 1, 204-204.	0.3	3
53	An Emergent Model of Visual Cortical Orientation Selectivity. , 1995, , 311-316.		3
54	A Local Circuit Integration Approach to Understanding Visual Cortical Receptive Fields. , 1997, , 505-510.		2

#	ARTICLE	IF	CITATIONS
55	Spatially-Specific Attentional Modulation Revealed by fMRI. , 2005, , 377-382.		1
56	Functional MRI Reveals a Cognitive Control Subnetwork Supporting Long-Term Memory-Guided Visual Attention. <i>Journal of Vision</i> , 2015, 15, 1247.	0.3	1
57	fMRI-based Functional Localization of the Ventral Attention Network in Individual Subjects. <i>Journal of Vision</i> , 2015, 15, 435.	0.3	0
58	Space Depends On Time: Informational Asymmetries in Visual and Auditory Short-Term Memory. <i>Journal of Vision</i> , 2015, 15, 1054.	0.3	0