

# SynnÃve Carlson

## List of Publications by Year in descending order

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112  
papers

5,372  
citations

87888

38  
h-index

91884

69  
g-index

114  
all docs

114  
docs citations

114  
times ranked

6494  
citing authors

#	ARTICLE	IF	CITATIONS
1	A protocol for the analysis of DTI data collected from young children. <i>MethodsX</i> , 2020, 7, 100878.	1.6	2
2	Altered working memory-related brain responses and white matter microstructure in extremely preterm-born children at school age. <i>Brain and Cognition</i> , 2019, 136, 103615.	1.8	5
3	Overlapping Anatomical Networks Convey Cross-Modal Suppression in the Sighted and Coactivation of "Visual" and Auditory Cortex in the Blind. <i>Cerebral Cortex</i> , 2019, 29, 4863-4876.	2.9	7
4	A Privileged Working Memory State and Potential Top-Down Modulation for Faces, Not Scenes. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 2.	2.0	5
5	Sushi repeat-containing protein X-linked 2: A novel phylogenetically conserved hypothalamo-pituitary protein. <i>Journal of Comparative Neurology</i> , 2018, 526, 1806-1819.	1.6	4
6	Anxiety and activity-related effects of paracetamol on healthy and neuropathic rats. <i>Pharmacology Research and Perspectives</i> , 2018, 6, e00367.	2.4	22
7	Prepulse Inhibition of Auditory Cortical Responses in the Caudolateral Superior Temporal Gyrus in <i>Macaca mulatta</i> . <i>Neuroscience Bulletin</i> , 2018, 34, 291-302.	2.9	2
8	Functional connectivity of intrinsic cognitive networks during resting state and task performance in preadolescent children. <i>PLoS ONE</i> , 2018, 13, e0205690.	2.5	9
9	Neural activity patterns between different executive tasks are more similar in adulthood than in adolescence. <i>Brain and Behavior</i> , 2018, 8, e01063.	2.2	8
10	Feasibility and baseline findings of a Finnish cognitive training (FINCOG) intervention in a randomised controlled trial among community-dwelling persons with dementia. <i>European Geriatric Medicine</i> , 2017, 8, 245-249.	2.8	3
11	Neural Substrate for Metacognitive Accuracy of Tactile Working Memory. <i>Cerebral Cortex</i> , 2017, 27, 5343-5352.	2.9	16
12	Gaming is related to enhanced working memory performance and task-related cortical activity. <i>Brain Research</i> , 2017, 1655, 204-215.	2.2	43
13	Media multitasking is associated with distractibility and increased prefrontal activity in adolescents and young adults. <i>NeuroImage</i> , 2016, 134, 113-121.	4.2	117
14	Attention and Working Memory in Adolescents with Autism Spectrum Disorder: A Functional MRI Study. <i>Child Psychiatry and Human Development</i> , 2016, 47, 503-517.	1.9	18
15	Dose-Dependent Changes in Auditory Sensory Gating in the Prefrontal Cortex of the Cynomolgus Monkey. <i>Medical Science Monitor</i> , 2016, 22, 1752-1760.	1.1	1
16	Brain activity during divided and selective attention to auditory and visual sentence comprehension tasks. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 86.	2.0	36
17	Time Adaptation Shows Duration Selectivity in the Human Parietal Cortex. <i>PLoS Biology</i> , 2015, 13, e1002262.	5.6	74
18	A Segregated Neural Pathway for Prefrontal Top-Down Control of Tactile Discrimination. <i>Cerebral Cortex</i> , 2015, 25, 161-166.	2.9	12

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19	Reading, listening and memory-related brain activity in children with early-stage temporal lobe epilepsy of unknown cause-an fMRI study. <i>European Journal of Paediatric Neurology</i> , 2015, 19, 561-571.	1.6	6
20	Relationship Between Cortical Thickness and Functional Activation in the Early Blind. <i>Cerebral Cortex</i> , 2015, 25, 2035-2048.	2.9	86
21	ISDN2014_0107: Working memory and inhibition in children with disruptive behavioral disorders. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 30-30.	1.6	0
22	Visuospatial Working Memory in 7- to 12-Year-Old Children with Disruptive Behavior Disorders. <i>Child Psychiatry and Human Development</i> , 2015, 46, 34-43.	1.9	13
23	Dissociable Neuroanatomical Correlates of Subsecond and Suprasecond Time Perception. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 1685-1693.	2.3	77
24	Responsiveness and functional connectivity of the scene-sensitive retrosplenial complex in 7-11-year-old children. <i>Brain and Cognition</i> , 2014, 92, 61-72.	1.8	9
25	Two-point tactile discrimination ability is influenced by temporal features of stimulation. <i>Experimental Brain Research</i> , 2014, 232, 2179-2185.	1.5	20
26	Spatial variability of functional brain networks in early-blind and sighted subjects. <i>NeuroImage</i> , 2014, 95, 208-216.	4.2	12
27	What interests them in the pictures? Differences in eyetracking between rhesus monkeys and humans. <i>Neuroscience Bulletin</i> , 2013, 29, 553-564.	2.9	11
28	Working Memory, Attention, Inhibition, and Their Relation to Adaptive Functioning and Behavioral/Emotional Symptoms in School-Aged Children. <i>Child Psychiatry and Human Development</i> , 2013, 44, 105-122.	1.9	67
29	Regulation of brain activity in the fusiform face and parahippocampal place areas in 7-11-year-old children. <i>Brain and Cognition</i> , 2013, 81, 203-214.	1.8	16
30	The brains of high functioning autistic individuals do not synchronize with those of others. <i>NeuroImage: Clinical</i> , 2013, 3, 489-497.	2.7	112
31	Numerical quantity affects time estimation in the suprasecond range. <i>Neuroscience Letters</i> , 2013, 543, 7-11.	2.1	29
32	Interaction of Numerosity and Time in Prefrontal and Parietal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 883-893.	3.6	111
33	Listening to an Audio Drama Activates Two Processing Networks, One for All Sounds, Another Exclusively for Speech. <i>PLoS ONE</i> , 2013, 8, e64489.	2.5	18
34	Interactive effects of morphine and scopolamine, MK-801, propranolol on spatial working memory in rhesus monkeys. <i>Neuroscience Letters</i> , 2012, 523, 119-124.	2.1	12
35	Attention and semantic processing during speech: An fMRI study. <i>Brain and Language</i> , 2012, 122, 114-119.	1.6	18
36	The mismatch negativity (MMN) – A unique window to disturbed central auditory processing in ageing and different clinical conditions. <i>Clinical Neurophysiology</i> , 2012, 123, 424-458.	1.5	341

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37	Dog Experts' Brains Distinguish Socially Relevant Body Postures Similarly in Dogs and Humans. PLoS ONE, 2012, 7, e39145.	2.5	38
38	Engagement of amygdala in third-person view of face-to-face interaction. Human Brain Mapping, 2012, 33, 1753-1762.	3.6	31
39	Effect of morphine on conditioned place preference in rhesus monkeys. Addiction Biology, 2012, 17, 539-546.	2.6	17
40	Working memory in autism. , 2012, , 227-252.		1
41	Facilitation of tactile working memory by top-down suppression from prefrontal to primary somatosensory cortex during sensory interference. Behavioural Brain Research, 2011, 219, 387-390.	2.2	12
42	The mismatch negativity: an index of cognitive decline in neuropsychiatric and neurological diseases and in ageing. Brain, 2011, 134, 3435-3453.	7.6	180
43	Cognitive and Motor Loops of the Human Cerebro-cerebellar System. Journal of Cognitive Neuroscience, 2010, 22, 2663-2676.	2.3	228
44	Preserved Functional Specialization for Spatial Processing in the Middle Occipital Gyrus of the Early Blind. Neuron, 2010, 68, 138-148.	8.1	256
45	Dose-related effects of memantine on a mismatch negativity-like response in anesthetized rats. Neuroscience, 2010, 167, 1175-1182.	2.3	56
46	Increasing top-down suppression from prefrontal cortex facilitates tactile working memory. NeuroImage, 2010, 49, 1091-1098.	4.2	42
47	Cognitive Control in Auditory Working Memory Is Enhanced in Musicians. PLoS ONE, 2010, 5, e11120.	2.5	165
48	Multisensory Integration of Sounds and Vibrotactile Stimuli in Processing Streams for "What" and "Where". Journal of Neuroscience, 2009, 29, 10950-10960.	3.6	103
49	Distracters Impair and Create Working Memory-Related Neuronal Activity in the Prefrontal Cortex. Cerebral Cortex, 2009, 19, 2680-2689.	2.9	24
50	Electrophysiological correlates of short-latency afferent inhibition: a combined EEG and TMS study. Experimental Brain Research, 2009, 194, 517-526.	1.5	54
51	Brain activation and deactivation during location and color working memory tasks in 11-13-year-old children. Brain and Cognition, 2009, 69, 56-64.	1.8	25
52	Maze model to study spatial learning and memory in freely moving monkeys. Journal of Neuroscience Methods, 2008, 170, 111-116.	2.5	9
53	Association of serotonin transporter promoter regulatory region polymorphism and cerebral activity to visual presentation of food. Clinical Physiology and Functional Imaging, 2008, 28, 270-276.	1.2	11
54	Effects of an NMDA-receptor antagonist MK-801 on an MMN-like response recorded in anesthetized rats. Brain Research, 2008, 1203, 97-102.	2.2	106

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55	Navigated transcranial magnetic stimulation of the primary somatosensory cortex impairs perceptual processing of tactile temporal discrimination. <i>Neuroscience Letters</i> , 2008, 437, 144-147.	2.1	29
56	Heroin impairs map-picture-following and memory tasks dependent on gender and orientation of the tasks.. <i>Behavioral Neuroscience</i> , 2007, 121, 653-664.	1.2	17
57	Heschl's Gyrus, Posterior Superior Temporal Gyrus, and Mid-Ventrolateral Prefrontal Cortex Have Different Roles in the Detection of Acoustic Changes. <i>Journal of Neurophysiology</i> , 2007, 97, 2075-2082.	1.8	149
58	Learning large-scale spatial relationships in a maze and effects of MK-801 on retrieval in the rhesus monkey. <i>Developmental Neurobiology</i> , 2007, 67, 1731-1741.	3.0	9
59	Processing of auditory and visual location information in the monkey prefrontal cortex. <i>Experimental Brain Research</i> , 2007, 180, 469-479.	1.5	24
60	Acute opioid effects on human brain as revealed by functional magnetic resonance imaging. <i>NeuroImage</i> , 2006, 31, 661-669.	4.2	99
61	Localization of touch versus heat pain in the human hand: A dissociative effect of temporal parameters on discriminative capacity and decision strategy. <i>Pain</i> , 2006, 121, 6-13.	4.2	14
62	Conveyance of emotional connotations by a single word in English. <i>Speech Communication</i> , 2005, 45, 27-39.	2.8	8
63	Emotion Processing of Major, Minor, and Dissonant Chords: A Functional Magnetic Resonance Imaging Study. <i>Annals of the New York Academy of Sciences</i> , 2005, 1060, 450-453.	3.8	103
64	Somatotopic blocking of sensation with navigated transcranial magnetic stimulation of the primary somatosensory cortex. <i>Human Brain Mapping</i> , 2005, 26, 100-109.	3.6	71
65	Cortical generators of slow evoked responses elicited by spatial and nonspatial auditory working memory tasks. <i>Clinical Neurophysiology</i> , 2005, 116, 1644-1654.	1.5	20
66	Working memory, psychiatric symptoms, and academic performance at school. <i>Neurobiology of Learning and Memory</i> , 2005, 83, 33-42.	1.9	145
67	The effect of interstimulus interval on somatosensory point localization. <i>Somatosensory &amp; Motor Research</i> , 2004, 21, 3-7.	0.9	4
68	A potential aphrodisiac for female macaques. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 79, 137-141.	2.9	4
69	Working Memory and Sleep in 6- to 13-Year-Old Schoolchildren. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2003, 42, 85-92.	0.5	235
70	Differences between auditory evoked responses recorded during spatial and nonspatial working memory tasks. <i>NeuroImage</i> , 2003, 20, 1181-1192.	4.2	21
71	Effects of noise from functional magnetic resonance imaging on auditory event-related potentials in working memory task. <i>NeuroImage</i> , 2003, 20, 1320-1328.	4.2	38
72	Audiospatial and Visuospatial Working Memory in 6- to 13 Year Old School Children. <i>Learning and Memory</i> , 2003, 10, 74-81.	1.3	146

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73	Shared means and meanings in vocal expression of man and macaque. <i>Logopedics Phoniatrics Vocology</i> , 2003, 28, 53-61.	1.0	16
74	Working Memory of Identification of Emotional Vocal Expressions: An fMRI Study. <i>NeuroImage</i> , 2001, 13, 1090-1101.	4.2	83
75	Effects of Acoustic Gradient Noise from Functional Magnetic Resonance Imaging on Auditory Processing as Reflected by Event-Related Brain Potentials. <i>NeuroImage</i> , 2001, 14, 244-251.	4.2	40
76	Evidence for Dissociation of Spatial and Nonspatial Auditory Information Processing. <i>NeuroImage</i> , 2001, 14, 1268-1277.	4.2	64
77	Modulation of slow brain potentials by working memory load in spatial and nonspatial auditory tasks. <i>Neuropsychologia</i> , 2000, 38, 913-922.	1.6	35
78	Working Memory of Auditory Localization. <i>Cerebral Cortex</i> , 2000, 10, 889-898.	2.9	144
79	Selective interference reveals dissociation between memory for location and colour. <i>NeuroReport</i> , 1999, 10, 2235-2240.	1.2	32
80	Selective interference reveals dissociation between auditory memory for location and pitch. <i>NeuroReport</i> , 1999, 10, 3543-3547.	1.2	31
81	Distribution of cortical activation during visuospatial n-back tasks as revealed by functional magnetic resonance imaging. <i>Cerebral Cortex</i> , 1998, 8, 743-752.	2.9	234
82	Effects of music and white noise on working memory performance in monkeys. <i>NeuroReport</i> , 1997, 8, 2853-2856.	1.2	24
83	Visuospatial mnemonic load modulates event-related slow potentials. <i>NeuroReport</i> , 1997, 8, 871-876.	1.2	14
84	The Effects of Alpha-2 Agonist, Medetomidine and its Antagonist, Atipamezole on Reaction and Movement Times in a Visual Choice Reaction Time Task in Monkeys. <i>Brain Research Bulletin</i> , 1997, 44, 171-175.	3.0	2
85	Dissociation of Mnemonic Coding and Other Functional Neuronal Processing in the Monkey Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 1997, 77, 761-774.	1.8	38
86	The effects of prefrontal intracortical microinjections of an alpha-2 agonist, alpha-2 antagonist and lidocaine on the delayed alternation performance of aged rats. <i>Brain Research Bulletin</i> , 1996, 40, 117-119.	3.0	78
87	Medetomidine, atipamezole, and guanfacine in delayed response performance of aged monkeys. <i>Pharmacology Biochemistry and Behavior</i> , 1996, 55, 415-422.	2.9	62
88	Effect of cocaine on sexual behaviour in male stump-tail macaques ( <i>Macaca arctoides</i> ). <i>Pharmacology Biochemistry and Behavior</i> , 1995, 52, 211-216.	2.9	6
89	A spatial oculomotor memory-task performance produces a task-related slow shift in human electroencephalography. <i>Electroencephalography and Clinical Neurophysiology</i> , 1995, 94, 371-380.	0.3	19
90	Dissociation of the $\hat{\pm}$ 2-adrenergic antinociception from sedation following microinjection of medetomidine into the locus coeruleus in rats. <i>Pain</i> , 1994, 57, 207-215.	4.2	50

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91	Regional distribution of functions in dorsolateral prefrontal cortex of the monkey. Behavioural Brain Research, 1993, 53, 63-71.	2.2	40
92	Electroretinographic Findings In Juvenile X-Linked Retinoschisis. Neuro-Ophthalmology, 1992, 12, 159-168.	1.0	2
93	Effects of medetomidine, an $\alpha_2$ adrenoceptor agonist, and atipamezole, an $\alpha_2$ antagonist, on spatial memory performance in adult and aged rats. Behavioral and Neural Biology, 1992, 58, 113-119.	2.2	60
94	Functional properties of dorsolateral prefrontal cortical neurons in awake monkey. Behavioural Brain Research, 1992, 47, 169-180.	2.2	42
95	Increased sexual behavior in male Macaca arctoides monkeys produced by atipamezole, a selective $\alpha_2$ -adrenoceptor antagonist. Pharmacology Biochemistry and Behavior, 1992, 42, 197-200.	2.9	11
96	Response characteristics of tooth pulp-driven postsynaptic neurons in the spinal trigeminal subnucleus oralis of the cat. Acta Physiologica Scandinavica, 1992, 144, 177-183.	2.2	5
97	Effect of Perivascular Sympathectomy on Distal Adrenergic Innervation in the Hands of Monkeys. Journal of Hand Surgery, 1991, 16, 386-388.	0.8	13
98	Attempted reversal of cocaine-induced antinociceptive effects with naloxone, an opioid antagonist. European Journal of Pharmacology, 1991, 192, 349-353.	3.5	17
99	Effects of atipamezole, a novel $\alpha_2$ -adrenoceptor antagonist, in open-field, plus-maze, two compartment exploratory, and forced swimming tests in the rat. European Journal of Pharmacology, 1991, 205, 177-182.	3.5	41
100	A DC electroretinography method for the recording of human a-, b- and c-waves. Journal of Neuroscience Methods, 1990, 35, 107-113.	2.5	1
101	Gyrate atrophy of the choroid and retina: ERG of the neural retina and the pigment epithelium.. British Journal of Ophthalmology, 1990, 74, 363-367.	3.9	20
102	Vertical and horizontal coding of space in the monkey dorsolateral prefrontal cortex. Brain Research, 1990, 527, 145-149.	2.2	23
103	Visually Guided Behavior of Monkeys After Early Binocular Visual Deprivation. International Journal of Neuroscience, 1990, 50, 185-194.	1.6	2
104	Comparison of tactile discrimination ability of visually deprived and normal monkeys. Acta Physiologica Scandinavica, 1989, 135, 405-410.	2.2	9
105	Effect of naloxone on tooth pulp-evoked jaw-opening reflex in the barbiturate-anaesthetized cat. Acta Physiologica Scandinavica, 1988, 134, 327-331.	2.2	5
106	Late effects of early binocular visual deprivation on the function of Brodmann's area 7 of monkeys (Macaca arctoides). Developmental Brain Research, 1987, 33, 101-111.	1.7	36
107	Response characteristics of tooth pulp-driven postsynaptic neurons in the spinal trigeminal subnucleus interpolaris of the cat: comparison with primary afferent fiber, subnucleus caudalis, reflex, and sensory responses. Brain Research, 1987, 422, 205-217.	2.2	13
108	Tooth pulp-evoked activity in the spinal trigeminal nucleus caudalis of cat: Comparison to primary afferent fiber, reflex, and sensory responses. Experimental Neurology, 1987, 95, 155-166.	4.1	10

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109	Early binocular visual deprivation and the function of area 19 of monkeys (macaca speciosa). Behavioural Brain Research, 1986, 20, 78-79.	2.2	0
110	Persistent behavioural blindness after early visual deprivation and active visual rehabilitation: a case report.. British Journal of Ophthalmology, 1986, 70, 607-611.	3.9	34
111	VISUAL REHABILITATION AFTER LONG LASTING EARLY BLINDNESS. Acta Ophthalmologica, 1983, 61, 701-713.	1.1	22
112	Early visual deprivation alters modality of neuronal responses in area 19 of monkey cortex. Neuroscience Letters, 1981, 26, 239-243.	2.1	151