

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	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
2	Preserved Functional Specialization for Spatial Processing in the Middle Occipital Gyrus of the Early Blind. <i>Neuron</i> , 2010, 68, 138-148.	8.1	256
3	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
4	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
5	Cognitive and Motor Loops of the Human Cerebro-cerebellar System. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 2663-2676.	2.3	228
6	The mismatch negativity: an index of cognitive decline in neuropsychiatric and neurological diseases and in ageing. <i>Brain</i> , 2011, 134, 3435-3453.	7.6	180
7	Cognitive Control in Auditory Working Memory Is Enhanced in Musicians. <i>PLoS ONE</i> , 2010, 5, e11120.	2.5	165
8	Early visual deprivation alters modality of neuronal responses in area 19 of monkey cortex. <i>Neuroscience Letters</i> , 1981, 26, 239-243.	2.1	151
9	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
10	Audiospatial and Visuospatial Working Memory in 6-13 Year Old School Children. <i>Learning and Memory</i> , 2003, 10, 74-81.	1.3	146
11	Working memory, psychiatric symptoms, and academic performance at school. <i>Neurobiology of Learning and Memory</i> , 2005, 83, 33-42.	1.9	145
12	Working Memory of Auditory Localization. <i>Cerebral Cortex</i> , 2000, 10, 889-898.	2.9	144
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	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
15	Interaction of Numerosity and Time in Prefrontal and Parietal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 883-893.	3.6	111
16	Effects of an NMDA-receptor antagonist MK-801 on an MMN-like response recorded in anesthetized rats. <i>Brain Research</i> , 2008, 1203, 97-102.	2.2	106
17	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
18	Multisensory Integration of Sounds and Vibrotactile Stimuli in Processing Streams for "What" and "Where". <i>Journal of Neuroscience</i> , 2009, 29, 10950-10960.	3.6	103

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19	Acute opioid effects on human brain as revealed by functional magnetic resonance imaging. <i>NeuroImage</i> , 2006, 31, 661-669.	4.2	99
20	Relationship Between Cortical Thickness and Functional Activation in the Early Blind. <i>Cerebral Cortex</i> , 2015, 25, 2035-2048.	2.9	86
21	Working Memory of Identification of Emotional Vocal Expressions: An fMRI Study. <i>NeuroImage</i> , 2001, 13, 1090-1101.	4.2	83
22	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
23	Dissociable Neuroanatomical Correlates of Subsecond and Suprasecond Time Perception. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 1685-1693.	2.3	77
24	Time Adaptation Shows Duration Selectivity in the Human Parietal Cortex. <i>PLoS Biology</i> , 2015, 13, e1002262.	5.6	74
25	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
26	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
27	Evidence for Dissociation of Spatial and Nonspatial Auditory Information Processing. <i>NeuroImage</i> , 2001, 14, 1268-1277.	4.2	64
28	Medetomidine, atipamezole, and guanfacine in delayed response performance of aged monkeys. <i>Pharmacology Biochemistry and Behavior</i> , 1996, 55, 415-422.	2.9	62
29	Effects of medetomidine, an α_2 adrenoceptor agonist, and atipamezole, an α_2 antagonist, on spatial memory performance in adult and aged rats. <i>Behavioral and Neural Biology</i> , 1992, 58, 113-119.	2.2	60
30	Dose-related effects of memantine on a mismatch negativity-like response in anesthetized rats. <i>Neuroscience</i> , 2010, 167, 1175-1182.	2.3	56
31	Electrophysiological correlates of short-latency afferent inhibition: a combined EEG and TMS study. <i>Experimental Brain Research</i> , 2009, 194, 517-526.	1.5	54
32	Dissociation of the α_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
33	Gaming is related to enhanced working memory performance and task-related cortical activity. <i>Brain Research</i> , 2017, 1655, 204-215.	2.2	43
34	Functional properties of dorsolateral prefrontal cortical neurons in awake monkey. <i>Behavioural Brain Research</i> , 1992, 47, 169-180.	2.2	42
35	Increasing top-down suppression from prefrontal cortex facilitates tactile working memory. <i>NeuroImage</i> , 2010, 49, 1091-1098.	4.2	42
36	Effects of atipamezole, a novel α_2 -adrenoceptor antagonist, in open-field, plus-maze, two compartment exploratory, and forced swimming tests in the rat. <i>European Journal of Pharmacology</i> , 1991, 205, 177-182.	3.5	41

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37	Regional distribution of functions in dorsolateral prefrontal cortex of the monkey. Behavioural Brain Research, 1993, 53, 63-71.	2.2	40
38	Effects of Acoustic Gradient Noise from Functional Magnetic Resonance Imaging on Auditory Processing as Reflected by Event-Related Brain Potentials. NeuroImage, 2001, 14, 244-251.	4.2	40
39	Dissociation of Mnemonic Coding and Other Functional Neuronal Processing in the Monkey Prefrontal Cortex. Journal of Neurophysiology, 1997, 77, 761-774.	1.8	38
40	Effects of noise from functional magnetic resonance imaging on auditory event-related potentials in working memory task. NeuroImage, 2003, 20, 1320-1328.	4.2	38
41	Dog Experts' Brains Distinguish Socially Relevant Body Postures Similarly in Dogs and Humans. PLoS ONE, 2012, 7, e39145.	2.5	38
42	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
43	Brain activity during divided and selective attention to auditory and visual sentence comprehension tasks. Frontiers in Human Neuroscience, 2015, 9, 86.	2.0	36
44	Modulation of slow brain potentials by working memory load in spatial and nonspatial auditory tasks. Neuropsychologia, 2000, 38, 913-922.	1.6	35
45	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
46	Selective interference reveals dissociation between memory for location and colour. NeuroReport, 1999, 10, 2235-2240.	1.2	32
47	Selective interference reveals dissociation between auditory memory for location and pitch. NeuroReport, 1999, 10, 3543-3547.	1.2	31
48	Engagement of amygdala in third-person view of face-to-face interaction. Human Brain Mapping, 2012, 33, 1753-1762.	3.6	31
49	Navigated transcranial magnetic stimulation of the primary somatosensory cortex impairs perceptual processing of tactile temporal discrimination. Neuroscience Letters, 2008, 437, 144-147.	2.1	29
50	Numerical quantity affects time estimation in the suprasecond range. Neuroscience Letters, 2013, 543, 7-11.	2.1	29
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	Effects of music and white noise on working memory performance in monkeys. NeuroReport, 1997, 8, 2853-2856.	1.2	24
53	Processing of auditory and visual location information in the monkey prefrontal cortex. Experimental Brain Research, 2007, 180, 469-479.	1.5	24
54	Distracters Impair and Create Working Memory-Related Neuronal Activity in the Prefrontal Cortex. Cerebral Cortex, 2009, 19, 2680-2689.	2.9	24

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55	Vertical and horizontal coding of space in the monkey dorsolateral prefrontal cortex. <i>Brain Research</i> , 1990, 527, 145-149.	2.2	23
56	VISUAL REHABILITATION AFTER LONG LASTING EARLY BLINDNESS. <i>Acta Ophthalmologica</i> , 1983, 61, 701-713.	1.1	22
57	Anxiety- and activity-related effects of paracetamol on healthy and neuropathic rats. <i>Pharmacology Research and Perspectives</i> , 2018, 6, e00367.	2.4	22
58	Differences between auditory evoked responses recorded during spatial and nonspatial working memory tasks. <i>NeuroImage</i> , 2003, 20, 1181-1192.	4.2	21
59	Gyrate atrophy of the choroid and retina: ERG of the neural retina and the pigment epithelium.. <i>British Journal of Ophthalmology</i> , 1990, 74, 363-367.	3.9	20
60	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
61	Two-point tactile discrimination ability is influenced by temporal features of stimulation. <i>Experimental Brain Research</i> , 2014, 232, 2179-2185.	1.5	20
62	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
63	Attention and semantic processing during speech: An fMRI study. <i>Brain and Language</i> , 2012, 122, 114-119.	1.6	18
64	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
65	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
66	Attempted reversal of cocaine-induced antinociceptive effects with naloxone, an opioid antagonist. <i>European Journal of Pharmacology</i> , 1991, 192, 349-353.	3.5	17
67	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
68	Effect of morphine on conditioned place preference in rhesus monkeys. <i>Addiction Biology</i> , 2012, 17, 539-546.	2.6	17
69	Shared means and meanings in vocal expression of man and macaque. <i>Logopedics Phoniatrics Vocology</i> , 2003, 28, 53-61.	1.0	16
70	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
71	Neural Substrate for Metacognitive Accuracy of Tactile Working Memory. <i>Cerebral Cortex</i> , 2017, 27, 5343-5352.	2.9	16
72	Visuospatial mnemonic load modulates event-related slow potentials. <i>NeuroReport</i> , 1997, 8, 871-876.	1.2	14

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73	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
74	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. <i>Brain Research</i> , 1987, 422, 205-217.	2.2	13
75	Effect of Perivascular Sympathectomy on Distal Adrenergic Innervation in the Hands of Monkeys. <i>Journal of Hand Surgery</i> , 1991, 16, 386-388.	0.8	13
76	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
77	Facilitation of tactile working memory by top-down suppression from prefrontal to primary somatosensory cortex during sensory interference. <i>Behavioural Brain Research</i> , 2011, 219, 387-390.	2.2	12
78	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
79	Spatial variability of functional brain networks in early-blind and sighted subjects. <i>NeuroImage</i> , 2014, 95, 208-216.	4.2	12
80	A Segregated Neural Pathway for Prefrontal Top-Down Control of Tactile Discrimination. <i>Cerebral Cortex</i> , 2015, 25, 161-166.	2.9	12
81	Increased sexual behavior in male <i>Macaca arctoides</i> monkeys produced by atipamezole, a selective α_2 -adrenoceptor antagonist. <i>Pharmacology Biochemistry and Behavior</i> , 1992, 42, 197-200.	2.9	11
82	Association of serotonin transporter promoter regulatory region polymorphism and cerebral activity to visual presentation of food. <i>Clinical Physiology and Functional Imaging</i> , 2008, 28, 270-276.	1.2	11
83	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
84	Tooth pulp-evoked activity in the spinal trigeminal nucleus caudalis of cat: Comparison to primary afferent fiber, reflex, and sensory responses. <i>Experimental Neurology</i> , 1987, 95, 155-166.	4.1	10
85	Comparison of tactile discrimination ability of visually deprived and normal monkeys. <i>Acta Physiologica Scandinavica</i> , 1989, 135, 405-410.	2.2	9
86	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
87	Maze model to study spatial learning and memory in freely moving monkeys. <i>Journal of Neuroscience Methods</i> , 2008, 170, 111-116.	2.5	9
88	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
89	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
90	Conveyance of emotional connotations by a single word in English. <i>Speech Communication</i> , 2005, 45, 27-39.	2.8	8

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91	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
92	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
93	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
94	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
95	Effect of naloxone on tooth pulp-evoked jaw-opening reflex in the barbiturate-anaesthetized cat. <i>Acta Physiologica Scandinavica</i> , 1988, 134, 327-331.	2.2	5
96	Response characteristics of tooth pulp-driven postsynaptic neurons in the spinal trigeminal subnucleus oralis of the cat. <i>Acta Physiologica Scandinavica</i> , 1992, 144, 177-183.	2.2	5
97	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
98	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
99	The effect of interstimulus interval on somatosensory point localization. <i>Somatosensory & Motor Research</i> , 2004, 21, 3-7.	0.9	4
100	A potential aphrodisiac for female macaques. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 79, 137-141.	2.9	4
101	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
102	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
103	Visually Guided Behavior of Monkeys After Early Binocular Visual Deprivation. <i>International Journal of Neuroscience</i> , 1990, 50, 185-194.	1.6	2
104	Electroretinographic Findings In Juvenile X-Linked Retinoschisis. <i>Neuro-Ophthalmology</i> , 1992, 12, 159-168.	1.0	2
105	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
106	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
107	A protocol for the analysis of DTI data collected from young children. <i>MethodsX</i> , 2020, 7, 100878.	1.6	2
108	A DC electroretinography method for the recording of human a-, b- and c-waves. <i>Journal of Neuroscience Methods</i> , 1990, 35, 107-113.	2.5	1

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109	Working memory in autism. , 2012, , 227-252.		1
110	Dose-Dependent Changes in Auditory Sensory Gating in the Prefrontal Cortex of the Cynomolgus Monkey. Medical Science Monitor, 2016, 22, 1752-1760.	1.1	1
111	Early binocular visual deprivation and the function of area 19 of monkeys (macaca speciosa). Behavioural Brain Research, 1986, 20, 78-79.	2.2	0
112	ISDN2014_0107: Working memory and inhibition in children with disruptive behavioral disorders. International Journal of Developmental Neuroscience, 2015, 47, 30-30.	1.6	0