John T Serences

List of Publications by Citations

119 papers	7,069 citations	43 h-index	83 g-index
151 ext. papers	8,526 ext. citations	4.6 avg, IF	6.49 L-index

#	Paper	IF	Citations
119	Transient neural activity in human parietal cortex during spatial attention shifts. *Nature Neuroscience*, **2002**, 5, 995-1002	25.5	549
118	Stimulus-specific delay activity in human primary visual cortex. *Psychological Science*, **2009**, 20, 207-14	7.9	516
117	Selective visual attention and perceptual coherence. *Trends in Cognitive Sciences*, **2006**, 10, 38-45	14	374
116	Feature-based attentional modulations in the absence of direct visual stimulation. *Neuron*, **2007**, 55, 301-12	13.9	300
115	Cortical mechanisms of space-based and object-based attentional control. *Current Opinion in Neurobiology*, **2003**, 13, 187-93	7.6	300
114	Value-based modulations in human visual cortex. *Neuron*, **2008**, 60, 1169-81	13.9	261
113	Spatially selective representations of voluntary and stimulus-driven attentional priority in human occipital, parietal, and frontal cortex. *Cerebral Cortex*, **2007**, 17, 284-93	5.1	221
112	Cortical mechanisms of feature-based attentional control. *Cerebral Cortex*, **2003**, 13, 1334-43	5.1	215
111	Parietal and Frontal Cortex Encode Stimulus-Specific Mnemonic Representations during Visual Working Memory. *Neuron*, **2015**, 87, 893-905	13.9	211
110	Control of object-based attention in human cortex. *Cerebral Cortex*, **2004**, 14, 1346-57	5.1	211
109	Area Spt in the human planum temporale supports sensory-motor integration for speech processing. *Journal of Neurophysiology*, **2009**, 101, 2725-32	3.2	172
108	Domain general mechanisms of perceptual decision making in human cortex. *Journal of Neuroscience*, **2009**, 29, 8675-87	6.6	163
107	Cortical mechanisms for shifting and holding visuospatial attention. *Cerebral Cortex*, **2008**, 18, 114-25	5.1	159
106	Spatially global representations in human primary visual cortex during working memory maintenance. *Journal of Neuroscience*, **2009**, 29, 15258-65	6.6	140
105	Attention modulates spatial priority maps in the human occipital, parietal and frontal cortices. *Nature Neuroscience*, **2013**, 16, 1879-87	25.5	135
104	Control of spatial and feature-based attention in frontoparietal cortex. *Journal of Neuroscience*, **2010**, 30, 14330-9	6.6	131
103	Restoring Latent Visual Working Memory Representations in Human Cortex. *Neuron*, **2016**, 91, 694-707	13.9	131

102	Preparatory activity in visual cortex indexes distractor suppression during covert spatial orienting. *Journal of Neurophysiology*, **2004**, 92, 3538-45	3.2	130
101	Neural correlates of trial-to-trial fluctuations in response caution. *Journal of Neuroscience*, **2011**, 31, 17488-95	6.6	129
100	A neural measure of precision in visual working memory. *Journal of Cognitive Neuroscience*, **2013**, 25, 754-61	3.1	121
99	Reconstructions of information in visual spatial working memory degrade with memory load. *Current Biology*, **2014**, 24, 2174-2180	6.3	119
98	The topography of alpha-band activity tracks the content of spatial working memory. *Journal of Neurophysiology*, **2016**, 115, 168-77	3.2	110
97	A comparison of methods for characterizing the event-related BOLD timeseries in rapid fMRI. *NeuroImage*, **2004**, 21, 1690-700	7.9	108
96	Reciprocal relations between cognitive neuroscience and formal cognitive models: opposites attract?. *Trends in Cognitive Sciences*, **2011**, 15, 272-9	14	107
95	Alpha-Band Oscillations Enable Spatially and Temporally Resolved Tracking of Covert Spatial Attention. *Psychological Science*, **2017**, 28, 929-941	7.9	102
94	Estimating the influence of attention on population codes in human visual cortex using voxel-based tuning functions. *NeuroImage*, **2009**, 44, 223-31	7.9	98
93	Optimal deployment of attentional gain during fine discriminations. *Journal of Neuroscience*, **2012**, 32, 7723-33	6.6	90
92	Neural mechanisms of information storage in visual short-term memory. *Vision Research*, **2016**, 128, 53-67	2.1	90
91	Computational advances towards linking BOLD and behavior. *Neuropsychologia*, **2012**, 50, 435-46	3.2	85
90	Near-real-time feature-selective modulations in human cortex. *Current Biology*, **2013**, 23, 515-22	6.3	84
89	The representation of behavioral choice for motion in human visual cortex. *Journal of Neuroscience*, **2007**, 27, 12893-9	6.6	83
88	Human adult cortical reorganization and consequent visual distortion. *Journal of Neuroscience*, **2007**, 27, 9585-94	6.6	80
87	Population response profiles in early visual cortex are biased in favor of more valuable stimuli. *Journal of Neurophysiology*, **2010**, 104, 76-87	3.2	77
86	Coexisting representations of sensory and mnemonic information in human visual cortex. *Nature Neuroscience*, **2019**, 22, 1336-1344	25.5	71
85	The optimality of sensory processing during the speed-accuracy tradeoff. *Journal of Neuroscience*, **2012**, 32, 7992-8003	6.6	63

84	Adaptive allocation of attentional gain. *Journal of Neuroscience*, **2009**, 29, 11933-42	6.6	63
83	Visual attention mitigates information loss in small- and large-scale neural codes. *Trends in Cognitive Sciences*, **2015**, 19, 215-26	14	58
82	Evidence against a central bottleneck during the attentional blink: multiple channels for configural and featural processing. *Cognitive Psychology*, **2004**, 48, 95-126	3.1	58
81	Substitution and pooling in visual crowding induced by similar and dissimilar distractors. *Journal of Vision*, **2015**, 15, 15.1.4	0.4	57
80	Feature-Selective Attentional Modulations in Human Frontoparietal Cortex. *Journal of Neuroscience* , **2016**, 36, 8188-99	6.6	48
79	Value-based attentional capture influences context-dependent decision-making. *Journal of Neurophysiology*, **2015**, 114, 560-9	3.2	45
78	Spatial attention improves the quality of population codes in human visual cortex. *Journal of Neurophysiology*, **2010**, 104, 885-95	3.2	45
77	Expectations Do Not Alter Early Sensory Processing during Perceptual Decision-Making. *Journal of Neuroscience*, **2018**, 38, 5632-5648	6.6	43
76	Basing perceptual decisions on the most informative sensory neurons. *Journal of Neurophysiology*, **2010**, 104, 2266-73	3.2	38
75	Exploring the relationship between perceptual learning and top-down attentional control. *Vision Research*, **2012**, 74, 30-9	2.1	37
74	Changing the spatial scope of attention alters patterns of neural gain in human cortex. *Journal of Neuroscience*, **2014**, 34, 112-23	6.6	34
73	Sensory gain outperforms efficient readout mechanisms in predicting attention-related improvements in behavior. *Journal of Neuroscience*, **2014**, 34, 13384-98	6.6	33
72	Attention improves transfer of motion information between V1 and MT. *Journal of Neuroscience*, **2014**, 34, 3586-96	6.6	33
71	Top-down control over biased competition during covert spatial orienting. *Journal of Experimental Psychology: Human Perception and Performance*, **2003**, 29, 52-63	2.6	33
70	The impact of temporal regularization on estimates of the BOLD hemodynamic response function: a comparative analysis. *NeuroImage*, **2008**, 40, 1606-18	7.9	30
69	Spatial Tuning Shifts Increase the Discriminability and Fidelity of Population Codes in Visual Cortex. *Journal of Neuroscience*, **2017**, 37, 3386-3401	6.6	29
68	Dissociable signatures of visual salience and behavioral relevance across attentional priority maps in human cortex. *Journal of Neurophysiology*, **2018**, 119, 2153-2165	3.2	27
67	Acute Exercise Modulates Feature-selective Responses in Human Cortex. *Journal of Cognitive Neuroscience*, **2017**, 29, 605-618	3.1	25

66	Induced rhythms track the content and quality of visual working memory representations with high temporal precision. *Journal of Neuroscience*, **2014**, 34, 7587-99	6.6	23
65	Enhanced attentional gain as a mechanism for generalized perceptual learning in human visual cortex. *Journal of Neurophysiology*, **2014**, 112, 1217-27	3.2	22
64	Functional MRI and EEG Index Complementary Attentional Modulations. *Journal of Neuroscience*, **2019**, 39, 6162-6179	6.6	21
63	Fluctuations in instantaneous frequency predict alpha amplitude during visual perception. *Nature Communications*, **2017**, 8, 2071	17.4	21
62	Perceptual consequences of feature-based attentional enhancement and suppression. *Journal of Vision*, **2012**, 12, 15	0.4	20
61	Two different mechanisms support selective attention at different phases of training. *PLoS Biology*, **2017**, 15, e2001724	9.7	20
60	Learning to filter out visual distractors. *European Journal of Neuroscience*, **2009**, 29, 1723-31	3.5	18
59	Sleep-dependent learning and practice-dependent deterioration in an orientation discrimination task. *Behavioral Neuroscience*, **2008**, 122, 267-72	2.1	18
58	Categorical Biases in Human Occipitoparietal Cortex. *Journal of Neuroscience*, **2020**, 40, 917-931	6.6	18
57	Value-driven attentional capture enhances distractor representations in early visual cortex. *PLoS Biology*, **2019**, 17, e3000186	9.7	16
56	Temporal dynamics of divided spatial attention. *Journal of Neurophysiology*, **2013**, 109, 2364-73	3.2	16
55	Alpha-band oscillations track the retrieval of precise spatial representations from long-term memory. *Journal of Neurophysiology*, **2019**, 122, 539-551	3.2	14
54	Variability in visual working memory ability limits the efficiency of perceptual decision making. *Journal of Vision*, **2014**, 14,	0.4	13
53	Retinotopic mapping in the human visual cortex using vascular space occupancy-dependent functional magnetic resonance imaging. *NeuroReport*, **2005**, 16, 1635-40	1.7	13
52	Dissociating the impact of attention and expectation on early sensory processing. *Current Opinion in Psychology*, **2019**, 29, 181-186	6.2	12
51	Feature-coding transitions to conjunction-coding with progression through human visual cortex. *Journal of Neurophysiology*, **2017**, 118, 3194-3214	3.2	10
50	Individual differences in attention strategies during detection, fine discrimination, and coarse discrimination. *Journal of Neurophysiology*, **2013**, 110, 784-94	3.2	10
49	Mechanisms of selective attention: response enhancement, noise reduction, and efficient pooling of sensory responses. *Neuron*, **2011**, 72, 685-7	13.9	9

48	Integrating Levels of Analysis in Systems and Cognitive Neurosciences: Selective Attention as a Case Study. *Neuroscientist*, **2016**, 22, 225-37	7.6	7
47	The positional-specificity effect reveals a passive-trace contribution to visual short-term memory. *PLoS ONE*, **2013**, 8, e83483	3.7	7
46	Separating memoranda in depth increases visual working memory performance. *Journal of Vision*, **2019**, 19, 4	0.4	7
45	Pinging the brain to reveal hidden memories. *Nature Neuroscience*, **2017**, 20, 767-769	25.5	6
44	Preserved capacity for learning statistical regularities and directing selective attention after hippocampal lesions. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 19705-19710	11.5	6
43	When Conflict Cannot be Avoided: Relative Contributions of Early Selection and Frontal Executive Control in Mitigating Stroop Conflict. *Cerebral Cortex*, **2019**, 29, 5037-5048	5.1	6
42	Human frontoparietal cortex represents behaviorally relevant target status based on abstract object features. *Journal of Neurophysiology*, **2019**, 121, 1410-1427	3.2	6
41	Having More Choices Changes How Human Observers Weight Stable Sensory Evidence. *Journal of Neuroscience*, **2018**, 38, 8635-8649	6.6	6
40	Searching for an oddball: neural correlates of singleton detection mode in parietal cortex. *Journal of Neuroscience*, **2006**, 26, 12631-2	6.6	6
39	The Importance of Considering Model Choices When Interpreting Results in Computational Neuroimaging. *ENeuro*, **2019**, 6,	3.9	5
38	History Modulates Early Sensory Processing of Salient Distractors. *Journal of Neuroscience*, **2021**, 41, 8007-8022	6.6	5
37	Online response-selection and the attentional blink: Multiple-processing channels. *Visual Cognition*, **2009**, 17, 531-554	1.8	4
36	History modulates early sensory processing of salient distractors		4
35	Adaptive memory distortion in visual working memory		3
34	Inverted encoding models estimate sensible channel responses for sensible models		3
33	Stimulus visibility and uncertainty mediate the influence of attention on response bias and visual contrast appearance. *Journal of Vision*, **2019**, 19, 8	0.4	3
32	Classic Visual Search Effects in an Additional Singleton Task: An Open Dataset. *Journal of Cognition*, **2021**, 4, 34	3.2	3
31	Multivariate Analysis of BOLD Activation Patterns Recovers Graded Depth Representations in Human Visual and Parietal Cortex. *ENeuro*, **2019**, 6,	3.9	2

30	Dissociable signatures of visual salience and behavioral relevance across attentional priority maps in human cortex		2
29	Steady-State Visually Evoked Potentials and Feature-based Attention: Preregistered Null Results and a Focused Review of Methodological Considerations. *Journal of Cognitive Neuroscience*, **2021**, 33, 695-724	3.1	2
28	Building on a Solid Baseline: Anticipatory Biases in Attention. *Trends in Neurosciences*, **2018**, 41, 120-122	13.3	1
27	Biased orientation representations can be explained by experience with non-uniform training set statistics		1
26	Categorical Biases in Human Occipitoparietal Cortex		1
25	Working Memory: Flexible but Finite. *Neuron*, **2019**, 103, 184-185	13.9	0
24	Expectations about low-level visual features influence late stages of cortical information processing. *Journal of Vision*, **2018**, 18, 1051	0.4	0
23	Individual Alpha Frequency Determines the Impact of Bottom-Up Drive on Visual Processing. *Cerebral Cortex Communications*, **2021**, 2, tgab032	1.9	0
22	Probabilistic visual processing in humans and recurrent neural networks.. *Journal of Vision*, **2022**, 22, 24	0.4	
21	Adaptive read-out: the role of sensory adaptation in serial dependence. *Journal of Vision*, **2020**, 20, 1628	0.4	
20	Dissociable neural mechanisms underlie effects of attention on visual appearance and response bias. *Journal of Vision*, **2020**, 20, 630	0.4	
19	Evidence for suppression of irrelevant distractors in early visual cortex. *Journal of Vision*, **2020**, 20, 199	0.4	
18	Anisotropic representation of orientation by convolutional neural networks. *Journal of Vision*, **2020**, 20, 224	0.4	
17	Top-down and stimulus-driven influences jointly determine precision of spatial attention. *Journal of Vision*, **2020**, 20, 978	0.4	
16	The effects of attentional scope on voxel receptive fields and population codes for space. *Journal of Vision*, **2018**, 18, 1191	0.4	
15	Simultaneous representation of mnemonic and sensory information in human visual cortex. *Journal of Vision*, **2018**, 18, 369	0.4	
14	A hierarchical Bayesian model for inferring neural tuning functions from voxel tuning functions. *Journal of Vision*, **2018**, 18, 536	0.4	
13	Similar items repel each other in visual working memory. *Journal of Vision*, **2018**, 18, 679	0.4	

12	Directing retrospective attention in visual working memory in a graded manner. *Journal of Vision*, **2019**, 19, 312a	0.4
11	Rapid onset of category-selective biases in human cortex.. *Journal of Vision*, **2019**, 19, 249b	0.4
10	Complementary visual and motor-based strategies for encoding information in working memory. *Journal of Vision*, **2019**, 19, 91	0.4
9	Remembering stimuli in different depth planes increases visual working memory precision and reduces swap errors.. *Journal of Vision*, **2017**, 17, 848	0.4
8	Dissociable effects of stimulus strength, task demands, and training on occipital and parietal EEG signals during perceptual decision-making. *Journal of Vision*, **2017**, 17, 37	0.4
7	Neural Mechanisms of Categorical Perception in Human Visual Cortex. *Journal of Vision*, **2017**, 17, 30	0.4
6	Neural representations of spatial position recalled from long-term and short-term memory diverge across the cortical hierarchy. *Journal of Vision*, **2017**, 17, 1115	0.4
5	Dissociable biases in orientation recall: The oblique effect follows retinal coordinates, while repulsion from cardinal follows real-world coordinates.. *Journal of Vision*, **2017**, 17, 107	0.4
4	Alpha entrainment of posterior visual cortex impacts visual detection. *Journal of Vision*, **2017**, 17, 976	0.4
3	Occipital and parietal cortex encode representations of match between a viewed and sought object during visual target search. *Journal of Vision*, **2017**, 17, 1136	0.4
2	A gradual transition from veridical to categorical representations along the visual hierarchy for memory but not perception.. *Journal of Vision*, **2021**, 21, 2546	0.4
1	Deep-net-derived surface estimations from natural scenes predict voxel responses in scene-selective cortex. *Journal of Vision*, **2021**, 21, 2805	0.4