

# John P Spencer

## List of Publications by Year in descending order

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100  
papers

5,026  
citations

109321

35  
h-index

102487

66  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2497  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Transition to Reaching: Mapping Intention and Intrinsic Dynamics. <i>Child Development</i> , 1993, 64, 1058-1098.	3.0	498
2	The Transition to Reaching: Mapping Intention and Intrinsic Dynamics. <i>Child Development</i> , 1993, 64, 1058.	3.0	471
3	Development of reaching during the first year: Role of movement speed.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1996, 22, 1059-1076.	0.9	297
4	Bridging the representational gap in the dynamic systems approach to development. <i>Developmental Science</i> , 2003, 6, 392-412.	2.4	200
5	Postural Control During Reaching in Young Infants: A Dynamic Systems Approach. <i>Neuroscience and Biobehavioral Reviews</i> , 1998, 22, 507-514.	6.1	167
6	Testing the Dynamic Field Theory: Working Memory for Locations Becomes More Spatially Precise Over Development. <i>Child Development</i> , 2003, 74, 1393-1417.	3.0	165
7	Short Arms and Talking Eggs: Why We Should No Longer Abide the Nativistâ€“Empiricist Debate. <i>Child Development Perspectives</i> , 2009, 3, 79-87.	3.9	133
8	Tests of a Dynamic Systems Account of the Aâ€“notâ€“B Error: The Influence of Prior Experience on the Spatial Memory Abilities of Twoâ€“Yearâ€“Olds. <i>Child Development</i> , 2001, 72, 1327-1346.	3.0	126
9	A Dynamic Neural Field Model of Visual Working Memory and Change Detection. <i>Psychological Science</i> , 2009, 20, 568-577.	3.3	123
10	Twenty Years and Going Strong: A Dynamic Systems Revolution in Motor and Cognitive Development. <i>Child Development Perspectives</i> , 2011, 5, 260-266.	3.9	99
11	Probing the early development of visual working memory capacity with functional near-infrared spectroscopy. <i>NeuroImage</i> , 2014, 85, 314-325.	4.2	99
12	Grounding Word Learning in Space. <i>PLoS ONE</i> , 2011, 6, e28095.	2.5	93
13	Prototypes and particulars: Geometric and experience-dependent spatial categories.. <i>Journal of Experimental Psychology: General</i> , 2002, 131, 16-37.	2.1	91
14	Moving Toward a Grand Theory of Development: In Memory of Esther Thelen. <i>Child Development</i> , 2006, 77, 1521-1538.	3.0	90
15	Moving to higher ground: The dynamic field theory and the dynamics of visual cognition. <i>New Ideas in Psychology</i> , 2008, 26, 227-251.	1.9	87
16	Generalizing the dynamic field theory of spatial cognition across real and developmental time scales. <i>Brain Research</i> , 2008, 1202, 68-86.	2.2	86
17	Generalizing the Dynamic Field Theory of the A-not-B Error Beyond Infancy: Three-Year-Olds' Delay- and Experience-Dependent Location Memory Biases. <i>Child Development</i> , 2002, 73, 377-404.	3.0	83
18	The functional brain networks that underlie Early Stone Age tool manufacture. <i>Nature Human Behaviour</i> , 2017, 1, .	12.0	81

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19	Posture and the emergence of manual skills. <i>Developmental Science</i> , 2000, 3, 216-233.	2.4	73
20	Tests of the dynamic field theory and the spatial precision hypothesis: Capturing a qualitative developmental transition in spatial working memory.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2009, 35, 1698-1725.	0.9	73
21	Developmental continuity in the processes that underlie spatial recall. <i>Cognitive Psychology</i> , 2003, 47, 432-480.	2.2	65
22	Prototypes and particulars: Geometric and experience-dependent spatial categories.. <i>Journal of Experimental Psychology: General</i> , 2002, 131, 16-37.	2.1	65
23	Defending Qualitative Change: The View From Dynamical Systems Theory. <i>Child Development</i> , 2008, 79, 1639-1647.	3.0	64
24	Contributions of dynamic systems theory to cognitive development. <i>Cognitive Development</i> , 2012, 27, 401-418.	1.3	63
25	Validating an image-based fNIRS approach with fMRI and a working memory task. <i>NeuroImage</i> , 2017, 147, 204-218.	4.2	61
26	A layered neural architecture for the consolidation, maintenance, and updating of representations in visual working memory. <i>Brain Research</i> , 2009, 1299, 17-32.	2.2	59
27	What Does Theoretical Neuroscience Have to Offer the Study of Behavioral Development?. , 2007, , 320-361.		53
28	Autonomy in Action: Linking the Act of Looking to Memory Formation in Infancy via Dynamic Neural Fields. <i>Cognitive Science</i> , 2013, 37, 1-60.	1.7	51
29	Early adversity in rural India impacts the brain networks underlying visual working memory. <i>Developmental Science</i> , 2019, 22, e12822.	2.4	49
30	Spatially Specific Changes in Infants' Muscle Coactivity as They Learn to Reach. <i>Infancy</i> , 2000, 1, 275-302.	1.6	48
31	Validating a new methodology for optical probe design and image registration in fNIRS studies. <i>NeuroImage</i> , 2015, 106, 86-100.	4.2	48
32	Toward a formal theory of flexible spatial behavior: Geometric category biases generalize across pointing and verbal response types.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2006, 32, 473-490.	0.9	45
33	Changes in frontal and posterior cortical activity underlie the early emergence of executive function. <i>Developmental Science</i> , 2018, 21, e12602.	2.4	45
34	Dynamic Field Theory and Embodied Cognitive Dynamics. , 2009, , 86-118.		45
35	Stronger neural dynamics capture changes in infants' visual working memory capacity over development. <i>Developmental Science</i> , 2011, 14, 1379-1392.	2.4	42
36	Reference-related inhibition produces enhanced position discrimination and fast repulsion near axes of symmetry. <i>Perception &amp; Psychophysics</i> , 2006, 68, 1027-1046.	2.3	41

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37	The Infant Orienting With Attention Task: Assessing the Neural Basis of Spatial Attention in Infancy. <i>Infancy</i> , 2015, 20, 467-506.	1.6	38
38	Grounding Cognitive Level Processes in Behavior: The View From Dynamic Systems Theory. <i>Topics in Cognitive Science</i> , 2015, 7, 191-205.	1.9	35
39	Developmental Changes in the Relative Weighting of Geometric and Experience-Dependent Location Cues. <i>Journal of Cognition and Development</i> , 2003, 4, 3-38.	1.3	34
40	Dynamic interactions between visual working memory and saccade target selection. <i>Journal of Vision</i> , 2014, 14, 9-9.	0.3	34
41	Learning Words in Space and Time. <i>Psychological Science</i> , 2011, 22, 1049-1057.	3.3	33
42	Autonomous visual exploration creates developmental change in familiarity and novelty seeking behaviors. <i>Frontiers in Psychology</i> , 2013, 4, 648.	2.1	33
43	Generality with specificity: the dynamic field theory generalizes across tasks and time scales. <i>Developmental Science</i> , 2008, 11, 541-555.	2.4	32
44	Enhancing the Executive Functions of 3-Year-Olds in the Dimensional Change Card Sort Task. <i>Child Development</i> , 2015, 86, 812-827.	3.0	32
45	A neurobehavioral model of flexible spatial language behaviors.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2012, 38, 1490-1511.	0.9	28
46	Unifying Representations and Responses. <i>Psychological Science</i> , 2004, 15, 187-193.	3.3	27
47	Sex-specific alterations in preterm brain. <i>Pediatric Research</i> , 2019, 85, 55-62.	2.3	27
48	Carving up space at imaginary joints: Can people mentally impose arbitrary spatial category boundaries?. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2007, 33, 871-894.	0.9	27
49	The co-development of looking dynamics and discrimination performance.. <i>Developmental Psychology</i> , 2014, 50, 837-852.	1.6	26
50	Moving Word Learning to a Novel Space: A Dynamic Systems View of Referent Selection and Retention. <i>Cognitive Science</i> , 2017, 41, 52-72.	1.7	25
51	The role of experience in location estimation: Target distributions shift location memory biases. <i>Cognition</i> , 2010, 115, 147-153.	2.2	24
52	Integrating the Behavioral and Neural Dynamics of Response Selection in a Dual-task Paradigm: A Dynamic Neural Field Model of Dux et al. (). <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 334-351.	2.3	21
53	Prefrontal cortex activation supports the emergence of early stone age toolmaking skill. <i>NeuroImage</i> , 2019, 199, 57-69.	4.2	20
54	Biased feedback in spatial recall yields a violation of delta rule learning. <i>Psychonomic Bulletin and Review</i> , 2010, 17, 581-588.	2.8	19

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55	A multimuscle state analysis of adult motor learning. <i>Experimental Brain Research</i> , 1999, 128, 505-516.	1.5	18
56	Non-Bayesian Noun Generalization in 3- to 5-Year-Old Children: Probing the Role of Prior Knowledge in the Suspicious Coincidence Effect. <i>Cognitive Science</i> , 2015, 39, 268-306.	1.7	18
57	A fNIRS Investigation of Speech Planning and Execution in Adults Who Stutter. <i>Neuroscience</i> , 2019, 406, 73-85.	2.3	18
58	Behavioral dynamics and neural grounding of a dynamic field theory of multi-object tracking. <i>Journal of Integrative Neuroscience</i> , 2012, 11, 339-362.	1.7	17
59	Developmental Changes in the Relative Weighting of Geometric and Experience-Dependent Location Cues. <i>Journal of Cognition and Development</i> , 2003, 4, 3-38.	1.3	17
60	Model-based functional neuroimaging using dynamic neural fields: An integrative cognitive neuroscience approach. <i>Journal of Mathematical Psychology</i> , 2017, 76, 212-235.	1.8	16
61	Empirical Tests of a Brain-Based Model of Executive Function Development. <i>Child Development</i> , 2019, 90, 210-226.	3.0	16
62	The functional brain networks that underlie visual working memory in the first two years of life. <i>NeuroImage</i> , 2020, 219, 116971.	4.2	16
63	Modulating perceptual complexity and load reveals degradation of the visual working memory network in ageing. <i>NeuroImage</i> , 2017, 157, 464-475.	4.2	15
64	Processing pipeline for image reconstructed fNIRS analysis using both MRI templates and individual anatomy. <i>Neurophotonics</i> , 2021, 8, 025010.	3.3	15
65	Calibration algorithm for eyetracking with unrestricted head movement. <i>Behavior Research Methods</i> , 2007, 39, 123-132.	4.0	14
66	Seeing the World Through a Third Eye: Developmental Systems Theory Looks Beyond the Nativist-Empiricist Debate. <i>Child Development Perspectives</i> , 2009, 3, 103-105.	3.9	14
67	Filling the Gap on Developmental Change: Tests of a Dynamic Field Theory of Spatial Cognition. <i>Journal of Cognition and Development</i> , 2010, 11, 328-355.	1.3	13
68	Response control networks are selectively modulated by attention to rare events and memory load regardless of the need for inhibition. <i>NeuroImage</i> , 2015, 120, 331-344.	4.2	13
69	Word-Object Learning via Visual Exploration in Space (WOLVES): A neural process model of cross-situational word learning.. <i>Psychological Review</i> , 2022, 129, 640-695.	3.8	13
70	A Dialogue on the Role of Computational Modeling in Developmental Science. <i>Child Development Perspectives</i> , 2010, 4, 152-158.	3.9	12
71	The Development of Working Memory. <i>Current Directions in Psychological Science</i> , 2020, 29, 545-553.	5.3	12
72	Planning "Discrete" Movements Using a Continuous System: Insights from a Dynamic Field Theory of Movement Preparation. <i>Motor Control</i> , 2007, 11, 166-208.	0.6	11

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73	Comment on "Infants' Perseverative Search Errors Are Induced by Pragmatic Misinterpretation". Science, 2009, 325, 1624-1624.	12.6	11
74	Location memory biases reveal the challenges of coordinating visual and kinesthetic reference frames. Experimental Brain Research, 2007, 184, 165-178.	1.5	10
75	Moving toward a Unified Theory While Valuing the Importance of the Initial Conditions. , 2009, , 354-372.		10
76	Introduction to the special issue: why this question and why now?. Developmental Science, 2003, 6, 375-377.	2.4	9
77	Feature-Based Change Detection Reveals Inconsistent Individual Differences in Visual Working Memory Capacity. Frontiers in Systems Neuroscience, 2016, 10, 33.	2.5	8
78	Testing a dynamic-field account of interactions between spatial attention and spatial working memory. Attention, Perception, and Psychophysics, 2016, 78, 1043-1063.	1.3	8
79	Evaluating motion processing algorithms for use with functional near-infrared spectroscopy data from young children. Neurophotonics, 2018, 5, 1.	3.3	8
80	A Dynamic Neural Field Model of Word Learning. , 2013, , 1-27.		8
81	Change occurs when body meets environment: A review of the embodied nature of development. Japanese Psychological Research, 2014, 56, 385-401.	1.1	7
82	When seeing is knowing: The role of visual cues in the dissociation between children's rule knowledge and rule use. Journal of Experimental Child Psychology, 2012, 111, 561-569.	1.4	6
83	How do neural processes give rise to cognition? Simultaneously predicting brain and behavior with a dynamic model of visual working memory.. Psychological Review, 2021, 128, 362-395.	3.8	6
84	Finding a Way Out: Why Developmental Science Does Not Need Another "Crisis". Child Development Perspectives, 2011, 5, 166-168.	3.9	5
85	It's in the Eye of the Beholder: Spatial Language and Spatial Memory Use the Same Perceptual Reference Frames. , 2009, , 102-131.		5
86	Aligning body and world: Stable reference frames improve young children's search for hidden objects. Journal of Experimental Child Psychology, 2009, 102, 445-455.	1.4	4
87	Scenes and tracking with dynamic neural fields: How to update a robotic scene representation. , 2010, , .		4
88	Testing predictions of a neural process model of visual attention in infancy across competitive and non-competitive contexts. Infancy, 2022, 27, 389-411.	1.6	4
89	A novel technology for investigating the dynamics of infant perseverative reaching. Behavior Research Methods, 2007, 39, 911-919.	4.0	3
90	Corresponding delay-dependent biases in spatial language and spatial memory. Psychological Research, 2010, 74, 337-351.	1.7	3

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91	Learning words in space and time: Contrasting models of the suspicious coincidence effect. <i>Cognition</i> , 2021, 210, 104576.	2.2	3
92	Reaching into response selection: Stimulus and response similarity influence central operations.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2017, 43, 555-568.	0.9	3
93	TOWARDS THE INTEGRATION OF LINGUISTIC AND NON-LINGUISTIC SPATIAL COGNITION: A DYNAMIC FIELD THEORY APPROACH. , 2009, , .		2
94	Come down from the clouds: Grounding Bayesian insights in developmental and behavioral processes. <i>Behavioral and Brain Sciences</i> , 2011, 34, 204-206.	0.7	2
95	Speech planning and execution in children who stutter: Preliminary findings from a fNIRS investigation. <i>Journal of Clinical Neuroscience</i> , 2021, 91, 32-42.	1.5	2
96	What Makes Thinking about Development So Hard?. , 2007, , 375-386.		2
97	The essence of cognitive development. <i>Behavioral and Brain Sciences</i> , 2001, 24, 62-63.	0.7	1
98	A dynamic neural field model of temporal order judgments.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2015, 41, 1718-1733.	0.9	1
99	Introduction to the collection "How We Develop" Developmental Systems and the Emergence of Complex Behaviors™. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2017, 8, e1413.	2.8	1
100	Models at Play: Using Dynamic Field Theory to Understand Looking and Learning in Dyadic Interactions. <i>Proceedings (mdpi)</i> , 2017, 1, 181.	0.2	0