# 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 | Word-Object Learning via Visual Exploration in Space (WOLVES): A neural process model of cross-situational word learning.. Psychological Review, 2022, 129, 640-695. | 3.8 | 13 |
| 2 | Testing predictions of a neural process model of visual attention in infancy across competitive and nonâ€competitive contexts. Infancy, 2022, 27, 389-411. | 1.6 | 4 |
| 3 | 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 |
| 4 | Learning words in space and time: Contrasting models of the suspicious coincidence effect. Cognition, 2021, 210, 104576. | 2.2 | 3 |
| 5 | Processing pipeline for image reconstructed fNIRS analysis using both MRI templates and individual anatomy. Neurophotonics, 2021, 8, 025010. | 3.3 | 15 |
| 6 | Speech planning and execution in children who stutter: Preliminary findings from a fNIRS investigation. Journal of Clinical Neuroscience, 2021, 91, 32-42. | 1.5 | 2 |
| 7 | The Development of Working Memory. Current Directions in Psychological Science, 2020, 29, 545-553. | 5.3 | 12 |
| 8 | The functional brain networks that underlie visual working memory in the first two years of life. NeuroImage, 2020, 219, 116971. | 4.2 | 16 |
| 9 | Prefrontal cortex activation supports the emergence of early stone age toolmaking skill. NeuroImage, 2019, 199, 57-69. | 4.2 | 20 |
| 10 | Early adversity in rural India impacts the brain networks underlying visual working memory. Developmental Science, 2019, 22, e12822. | 2.4 | 49 |
| 11 | A fNIRS Investigation of Speech Planning and Execution in Adults Who Stutter. Neuroscience, 2019, 406, 73-85. | 2.3 | 18 |
| 12 | Sex-specific alterations in preterm brain. Pediatric Research, 2019, 85, 55-62. | 2.3 | 27 |
| 13 | Empirical Tests of a Brainâ€Based Model of Executive Function Development. Child Development, 2019, 90, 210-226. | 3.0 | 16 |
| 14 | Changes in frontal and posterior cortical activity underlie the early emergence of executive function. Developmental Science, 2018, 21, e12602. | 2.4 | 45 |
| 15 | Evaluating motion processing algorithms for use with functional near-infrared spectroscopy data from young children. Neurophotonics, 2018, 5, 1. | 3.3 | 8 |
| 16 | Moving Word Learning to a Novel Space: A Dynamic Systems View of Referent Selection and Retention. Cognitive Science, 2017, 41, 52-72. | 1.7 | 25 |
| 17 | Introduction to the collection â€˜How We Developâ€”Developmental Systems and the Emergence of Complex Behaviorsâ€™. Wiley Interdisciplinary Reviews: Cognitive Science, 2017, 8, e1413. | 2.8 | 1 |
| 18 | The functional brain networks that underlie Early Stone Age tool manufacture. Nature Human Behaviour, 2017, 1, . | 12.0 | 81 |

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|---|---|---|---|
| 19 | Modulating perceptual complexity and load reveals degradation of the visual working memory network in ageing. NeuroImage, 2017, 157, 464-475. | 4.2 | 15 |
| 20 | Model-based functional neuroimaging using dynamic neural fields: An integrative cognitive neuroscience approach. Journal of Mathematical Psychology, 2017, 76, 212-235. | 1.8 | 16 |
| 21 | Validating an image-based fNIRS approach with fMRI and a working memory task. NeuroImage, 2017, 147, 204-218. | 4.2 | 61 |
| 22 | Models at Play: Using Dynamic Field Theory to Understand Looking and Learning in Dyadic Interactions. Proceedings (mdpi), 2017, 1, 181. | 0.2 | 0 |
| 23 | Reaching into response selection: Stimulus and response similarity influence central operations.. Journal of Experimental Psychology: Human Perception and Performance, 2017, 43, 555-568. | 0.9 | 3 |
| 24 | Feature-Based Change Detection Reveals Inconsistent Individual Differences in Visual Working Memory Capacity. Frontiers in Systems Neuroscience, 2016, 10, 33. | 2.5 | 8 |
| 25 | 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 |
| 26 | A dynamic neural field model of temporal order judgments.. Journal of Experimental Psychology: Human Perception and Performance, 2015, 41, 1718-1733. | 0.9 | 1 |
| 27 | The Infant Orienting With Attention Task: Assessing the Neural Basis of Spatial Attention in Infancy. Infancy, 2015, 20, 467-506. | 1.6 | 38 |
| 28 | Enhancing the Executive Functions of 3â€Yearâ€Olds in the Dimensional Change Card Sort Task. Child Development, 2015, 86, 812-827. | 3.0 | 32 |
| 29 | Nonâ€Bayesian Noun Generalization in 3â€to 5â€Yearâ€Old Children: Probing the Role of Prior Knowledge in the Suspicious Coincidence Effect. Cognitive Science, 2015, 39, 268-306. | 1.7 | 18 |
| 30 | Response control networks are selectively modulated by attention to rare events and memory load regardless of the need for inhibition. NeuroImage, 2015, 120, 331-344. | 4.2 | 13 |
| 31 | Validating a new methodology for optical probe design and image registration in fNIRS studies. NeuroImage, 2015, 106, 86-100. | 4.2 | 48 |
| 32 | Grounding Cognitiveâ€Level Processes in Behavior: The View From Dynamic Systems Theory. Topics in Cognitive Science, 2015, 7, 191-205. | 1.9 | 35 |
| 33 | Dynamic interactions between visual working memory and saccade target selection. Journal of Vision, 2014, 14, 9-9. | 0.3 | 34 |
| 34 | Integrating the Behavioral and Neural Dynamics of Response Selection in a Dual-task Paradigm: A Dynamic Neural Field Model of Dux et al. (). Journal of Cognitive Neuroscience, 2014, 26, 334-351. | 2.3 | 21 |
| 35 | Change occurs when body meets environment: A review of the embodied nature of development. Japanese Psychological Research, 2014, 56, 385-401. | 1.1 | 7 |
| 36 | Probing the early development of visual working memory capacity with functional near-infrared spectroscopy. NeuroImage, 2014, 85, 314-325. | 4.2 | 99 |

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|---|---|---|---|
| 37 | The co-development of looking dynamics and discrimination performance.. Developmental Psychology, 2014, 50, 837-852. | 1.6 | 26 |
| 38 | Autonomy in Action: Linking the Act of Looking to Memory Formation in Infancy via Dynamic Neural Fields. Cognitive Science, 2013, 37, 1-60. | 1.7 | 51 |
| 39 | Autonomous visual exploration creates developmental change in familiarity and novelty seeking behaviors. Frontiers in Psychology, 2013, 4, 648. | 2.1 | 33 |
| 40 | A Dynamic Neural Field Model of Word Learning. , 2013, , 1-27. | | 8 |
| 41 | A neurobehavioral model of flexible spatial language behaviors.. Journal of Experimental Psychology: Learning Memory and Cognition, 2012, 38, 1490-1511. | 0.9 | 28 |
| 42 | Behavioral dynamics and neural grounding of a dynamic field theory of multi-object tracking. Journal of Integrative Neuroscience, 2012, 11, 339-362. | 1.7 | 17 |
| 43 | When seeing is knowing: The role of visual cues in the dissociation between childrenâ€™s rule knowledge and rule use. Journal of Experimental Child Psychology, 2012, 111, 561-569. | 1.4 | 6 |
| 44 | Contributions of dynamic systems theory to cognitive development. Cognitive Development, 2012, 27, 401-418. | 1.3 | 63 |
| 45 | Grounding Word Learning in Space. PLoS ONE, 2011, 6, e28095. | 2.5 | 93 |
| 46 | Stronger neural dynamics capture changes in infantsâ€™ visual working memory capacity over development. Developmental Science, 2011, 14, 1379-1392. | 2.4 | 42 |
| 47 | Finding a Way Out: Why Developmental Science Does Not Need Another â€œismâ€. Child Development Perspectives, 2011, 5, 166-168. | 3.9 | 5 |
| 48 | Twenty Years and Going Strong: A Dynamic Systems Revolution in Motor and Cognitive Development. Child Development Perspectives, 2011, 5, 260-266. | 3.9 | 99 |
| 49 | Learning Words in Space and Time. Psychological Science, 2011, 22, 1049-1057. | 3.3 | 33 |
| 50 | Come down from the clouds: Grounding Bayesian insights in developmental and behavioral processes. Behavioral and Brain Sciences, 2011, 34, 204-206. | 0.7 | 2 |
| 51 | Biased feedback in spatial recall yields a violation of delta rule learning. Psychonomic Bulletin and Review, 2010, 17, 581-588. | 2.8 | 19 |
| 52 | Corresponding delay-dependent biases in spatial language and spatial memory. Psychological Research, 2010, 74, 337-351. | 1.7 | 3 |
| 53 | The role of experience in location estimation: Target distributions shift location memory biases. Cognition, 2010, 115, 147-153. | 2.2 | 24 |
| 54 | A Dialogue on the Role of Computational Modeling in Developmental Science. Child Development Perspectives, 2010, 4, 152-158. | 3.9 | 12 |

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| 55 | Filling the Gap on Developmental Change: Tests of a Dynamic Field Theory of Spatial Cognition. Journal of Cognition and Development, 2010, 11, 328-355. | 1.3 | 13 |
| 56 | Scenes and tracking with dynamic neural fields: How to update a robotic scene representation. , 2010, , . | | 4 |
| 57 | Comment on â€œInfantsâ€™ Perseverative Search Errors Are Induced by Pragmatic Misinterpretationâ€• Science, 2009, 325, 1624-1624. | 12.6 | 11 |
| 58 | A Dynamic Neural Field Model of Visual Working Memory and Change Detection. Psychological Science, 2009, 20, 568-577. | 3.3 | 123 |
| 59 | A layered neural architecture for the consolidation, maintenance, and updating of representations in visual working memory. Brain Research, 2009, 1299, 17-32. | 2.2 | 59 |
| 60 | Short Arms and Talking Eggs: Why We Should No Longer Abide the Nativistâ€“Empiricist Debate. Child Development Perspectives, 2009, 3, 79-87. | 3.9 | 133 |
| 61 | Seeing the World Through a Third Eye: Developmental Systems Theory Looks Beyond the Nativistâ€“Empiricist Debate. Child Development Perspectives, 2009, 3, 103-105. | 3.9 | 14 |
| 62 | Aligning body and world: Stable reference frames improve young childrenâ€™s search for hidden objects. Journal of Experimental Child Psychology, 2009, 102, 445-455. | 1.4 | 4 |
| 63 | Tests of the dynamic field theory and the spatial precision hypothesis: Capturing a qualitative developmental transition in spatial working memory.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 1698-1725. | 0.9 | 73 |
| 64 | TOWARDS THE INTEGRATION OF LINGUISTIC AND NON-LINGUISTIC SPATIAL COGNITION: A DYNAMIC FIELD THEORY APPROACH. , 2009, , . | | 2 |
| 65 | Dynamic Field Theory and Embodied Cognitive Dynamics. , 2009, , 86-118. | | 45 |
| 66 | Moving toward a Unified Theory While Valuing the Importance of the Initial Conditions. , 2009, , 354-372. | | 10 |
| 67 | It's in the Eye of the Beholder: Spatial Language and Spatial Memory Use the Same Perceptual Reference Frames. , 2009, , 102-131. | | 5 |
| 68 | Generality with specificity: the dynamic field theory generalizes across tasks and time scales. Developmental Science, 2008, 11, 541-555. | 2.4 | 32 |
| 69 | Defending Qualitative Change: The View From Dynamical Systems Theory. Child Development, 2008, 79, 1639-1647. | 3.0 | 64 |
| 70 | Generalizing the dynamic field theory of spatial cognition across real and developmental time scales. Brain Research, 2008, 1202, 68-86. | 2.2 | 86 |
| 71 | Moving to higher ground: The dynamic field theory and the dynamics of visual cognition. New Ideas in Psychology, 2008, 26, 227-251. | 1.9 | 87 |
| 72 | Planning â€œDiscreteâ€•Movements Using a Continuous System: Insights from a Dynamic Field Theory of Movement Preparation. Motor Control, 2007, 11, 166-208. | 0.6 | 11 |

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| 73 | Calibration algorithm for eyetracking with unrestricted head movement. Behavior Research Methods, 2007, 39, 123-132. | 4.0 | 14 |
| 74 | A novel technology for investigating the dynamics of infant perseverative reaching. Behavior Research Methods, 2007, 39, 911-919. | 4.0 | 3 |
| 75 | Location memory biases reveal the challenges of coordinating visual and kinesthetic reference frames. Experimental Brain Research, 2007, 184, 165-178. | 1.5 | 10 |
| 76 | Carving up space at imaginary joints: Can people mentally impose arbitrary spatial category boundaries?. Journal of Experimental Psychology: Human Perception and Performance, 2007, 33, 871-894. | 0.9 | 27 |
| 77 | What Does Theoretical Neuroscience Have to Offer the Study of Behavioral Development?. , 2007, , 320-361. | | 53 |
| 78 | What Makes Thinking about Development So Hard?. , 2007, , 375-386. | | 2 |
| 79 | Toward a formal theory of flexible spatial behavior: Geometric category biases generalize across pointing and verbal response types.. Journal of Experimental Psychology: Human Perception and Performance, 2006, 32, 473-490. | 0.9 | 45 |
| 80 | Moving Toward a Grand Theory of Development: In Memory of Esther Thelen. Child Development, 2006, 77, 1521-1538. | 3.0 | 90 |
| 81 | Reference-related inhibition produces enhanced position discrimination and fast repulsion near axes of symmetry. Perception & Psychophysics, 2006, 68, 1027-1046. | 2.3 | 41 |
| 82 | Unifying Representations and Responses. Psychological Science, 2004, 15, 187-193. | 3.3 | 27 |
| 83 | Developmental continuity in the processes that underlie spatial recall. Cognitive Psychology, 2003, 47, 432-480. | 2.2 | 65 |
| 84 | Introduction to the special issue: why this question and why now?. Developmental Science, 2003, 6, 375-377. | 2.4 | 9 |
| 85 | Bridging the representational gap in the dynamic systems approach to development. Developmental Science, 2003, 6, 392-412. | 2.4 | 200 |
| 86 | Testing the Dynamic Field Theory: Working Memory for Locations Becomes More Spatially Precise Over Development. Child Development, 2003, 74, 1393-1417. | 3.0 | 165 |
| 87 | Developmental Changes in the Relative Weighting of Geometric and Experience-Dependent Location Cues. Journal of Cognition and Development, 2003, 4, 3-38. | 1.3 | 34 |
| 88 | Developmental Changes in the Relative Weighting of Geometric and Experience-Dependent Location Cues. Journal of Cognition and Development, 2003, 4, 3-38. | 1.3 | 17 |
| 89 | Prototypes and particulars: Geometric and experience-dependent spatial categories.. Journal of Experimental Psychology: General, 2002, 131, 16-37. | 2.1 | 91 |
| 90 | Generalizing the Dynamic Field Theory of the A-not-B Error Beyond Infancy: Three-Year-Olds' Delay- and Experience-Dependent Location Memory Biases. Child Development, 2002, 73, 377-404. | 3.0 | 83 |

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| 91 | Prototypes and particulars: Geometric and experience-dependent spatial categories.. Journal of Experimental Psychology: General, 2002, 131, 16-37. | 2.1 | 65 |
| 92 | The essence of cognitive development. Behavioral and Brain Sciences, 2001, 24, 62-63. | 0.7 | 1 |
| 93 | Tests of a Dynamic Systems Account of the Aâ€¬otâ€B Error: The Influence of Prior Experience on the Spatial Memory Abilities of Twoâ€¬Yearâ€Olds. Child Development, 2001, 72, 1327-1346. | 3.0 | 126 |
| 94 | Posture and the emergence of manual skills. Developmental Science, 2000, 3, 216-233. | 2.4 | 73 |
| 95 | Spatially Specific Changes in Infants' Muscle Coactivity as They Learn to Reach. Infancy, 2000, 1, 275-302. | 1.6 | 48 |
| 96 | A multimuscle state analysis of adult motor learning. Experimental Brain Research, 1999, 128, 505-516. | 1.5 | 18 |
| 97 | Postural Control During Reaching in Young Infants: A Dynamic Systems Approach. Neuroscience and Biobehavioral Reviews, 1998, 22, 507-514. | 6.1 | 167 |
| 98 | Development of reaching during the first year: Role of movement speed.. Journal of Experimental Psychology: Human Perception and Performance, 1996, 22, 1059-1076. | 0.9 | 297 |
| 99 | The Transition to Reaching: Mapping Intention and Intrinsic Dynamics. Child Development, 1993, 64, 1058. | 3.0 | 471 |
| 100 | The Transition to Reaching: Mapping Intention and Intrinsic Dynamics. Child Development, 1993, 64, 1058-1098. | 3.0 | 498 |