

# David L Strayer

## List of Publications by Year in descending order

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131  
papers

9,271  
citations

53794

45  
h-index

39675

94  
g-index

133  
all docs

133  
docs citations

133  
times ranked

5773  
citing authors

#	ARTICLE	IF	CITATIONS
1	This Is Your Brain on Autopilot: Neural Indices of Driver Workload and Engagement During Partial Vehicle Automation. <i>Human Factors</i> , 2023, 65, 1435-1450.	3.5	10
2	The persistence of distraction: The hidden costs of intermittent multitasking.. <i>Journal of Experimental Psychology: Applied</i> , 2022, 28, 262-282.	1.2	5
3	On-Road vehicle study of the experience of automated driving. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2022, 87, 444-453.	3.7	2
4	The autonomic nervous system in its natural environment: Immersion in nature is associated with changes in heart rate and heart rate variability. <i>Psychophysiology</i> , 2021, 58, e13698.	2.4	21
5	What Cognitive Psychology Can Tell Us About Educational Computer Games. , 2021, , 399-416.		0
6	Real-time prediction of short-timescale fluctuations in cognitive workload. <i>Cognitive Research: Principles and Implications</i> , 2021, 6, 30.	2.0	3
7	No Difference in Arousal or Cognitive Demands Between Manual and Partially Automated Driving: A Multi-Method On-Road Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 577418.	2.8	6
8	A cognitive model of response omissions in distraction paradigms. <i>Memory and Cognition</i> , 2021, , 1.	1.6	3
9	Nature as a potential modulator of the error-related negativity: A registered report. <i>International Journal of Psychophysiology</i> , 2020, 156, 49-59.	1.0	11
10	Age-Related Differences in the Cognitive, Visual, and Temporal Demands of In-Vehicle Information Systems. <i>Frontiers in Psychology</i> , 2020, 11, 1154.	2.1	6
11	Driver Arousal and Workload Under Partial Vehicle Automation: A Pilot Study. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2020, 64, 1955-1959.	0.3	2
12	Resting-state posterior alpha power changes with prolonged exposure in a natural environment. <i>Cognitive Research: Principles and Implications</i> , 2020, 5, 51.	2.0	12
13	Assessing the visual and cognitive demands of in-vehicle information systems. <i>Cognitive Research: Principles and Implications</i> , 2019, 4, 18.	2.0	30
14	Examining the effect of infotainment auditory-vocal systemsâ€™ design components on workload and usability. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 62, 520-528.	3.7	2
15	A Review of Psychophysiological Measures to Assess Cognitive States in Real-World Driving. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 57.	2.0	176
16	Visual and Cognitive Demands of CarPlay, Android Auto, and Five Native Infotainment Systems. <i>Human Factors</i> , 2019, 61, 1371-1386.	3.5	33
17	Driven to comment: Learning from older drivers impressions of in-vehicle technologies. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2019, 63, 22-26.	0.3	1
18	Cognitive workload measurement and modeling under divided attention.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2019, 45, 826-839.	0.9	30

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19	Using response time modeling to understand the sources of dual-task interference in a dynamic environment.. Journal of Experimental Psychology: Human Perception and Performance, 2019, 45, 1331-1345.	0.9	16
20	Cognitive underpinnings of beliefs and confidence in beliefs about fully automated vehicles. Transportation Research Part F: Traffic Psychology and Behaviour, 2018, 55, 114-122.	3.7	75
21	Working memory capacity and task goals modulate error-related ERPs. Psychophysiology, 2018, 55, e12805.	2.4	20
22	80 MPH and out-of-the-loop: Effects of real-world semi-automated driving on driver workload and arousal. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1878-1882.	0.3	32
23	Utilizing a Remote LED Stimulus to Concurrently Measure Cognitive and Visual Task Demand. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1-5.	0.3	0
24	Performance and Workload Trends: The Effects of Repeated Exposure to "High-Demand Tasks. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 6-10.	0.3	2
25	Electroencephalographic and cardiovascular markers of vulnerability within families of suicidal adolescents: A pilot study. Biological Psychology, 2018, 136, 46-56.	2.2	6
26	The Effects of Voice System Design Components on Driver Workload. Transportation Research Record, 2018, 2672, 94-100.	1.9	4
27	The Challenge of Advanced Driver Assistance Systems Assessment: A Scale for the Assessment of the Human-Machine Interface of Advanced Driver Assistance Technology. Transportation Research Record, 2018, 2672, 113-122.	1.9	20
28	Modeling cognitive load effects of conversation between a passenger and driver. Attention, Perception, and Psychophysics, 2017, 79, 1795-1803.	1.3	34
29	Media Multitasking and Cognitive, Psychological, Neural, and Learning Differences. Pediatrics, 2017, 140, S62-S66.	2.1	78
30	Advanced driver assistance systems: Using multimodal redundant warnings to enhance road safety. Applied Ergonomics, 2017, 58, 238-244.	3.1	73
31	Small Screen Use and Driving Safety. Pediatrics, 2017, 140, S107-S111.	2.1	4
32	Partial-autonomous Frenzy: Driving a Level-2 Vehicle on the Open Road. Lecture Notes in Computer Science, 2017, , 329-338.	1.3	5
33	The smartphone and the driver's cognitive workload: A comparison of Apple, Google, and Microsoft's intelligent personal assistants.. Canadian Journal of Experimental Psychology, 2017, 71, 93-110.	0.8	72
34	Aging and Driving. , 2017, , 172-180.		0
35	What Cognitive Psychology Can Tell Us About Educational Computer Games. Advances in Game-based Learning Book Series, 2017, , 1-18.	0.2	2
36	Evaluating Demands Associated with the Use of Voice-Based In-Vehicle Interfaces. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 2083-2087.	0.3	2

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37	Cognitive Workload Using Interactive Voice Messaging Systems. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1894-1898.	0.3	7
38	Extending the Detection Response Task to Simultaneously Measure Cognitive and Visual Task Demands. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1962-1966.	0.3	15
39	Why drivers use cell phones and support legislation to restrict this practice. Accident Analysis and Prevention, 2016, 92, 22-33.	5.7	28
40	Validating Two Assessment Strategies for Visual and Cognitive Load in a Simulated Driving Task. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1899-1903.	0.3	16
41	Stereotype Threat Impairs Older Adult Driving. Applied Cognitive Psychology, 2016, 30, 22-28.	1.6	16
42	The Residual Costs of Multitasking. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1967-1970.	0.3	3
43	On working memory and a productivity illusion in distracted driving.. Journal of Applied Research in Memory and Cognition, 2016, 5, 445-453.	1.1	13
44	Talking to your car can drive you to distraction. Cognitive Research: Principles and Implications, 2016, 1, 16.	2.0	49
45	SPIDER. Human Factors, 2016, 58, 5-12.	3.5	45
46	Cell-phone use diminishes self-awareness of impaired driving. Psychonomic Bulletin and Review, 2016, 23, 617-623.	2.8	30
47	Aging and Driving. , 2016, , 1-9.		0
48	Working memory's workload capacity. Memory and Cognition, 2015, 43, 973-989.	1.6	23
49	On Supertaskers and the Neural Basis of Efficient Multitasking. Psychonomic Bulletin and Review, 2015, 22, 876-883.	2.8	34
50	Is the Technology in Your Car Driving You to Distraction?. Policy Insights From the Behavioral and Brain Sciences, 2015, 2, 157-165.	2.4	19
51	Assessing Cognitive Distraction in the Automobile. Human Factors, 2015, 57, 1300-1324.	3.5	161
52	Driven to Distraction. Human Factors, 2015, 57, 1343-1347.	3.5	11
53	Cognitive Distraction Impairs Drivers' Anticipatory Glances: An On-Road Study. , 2015, , .		7
54	Hierarchical control and driving.. Journal of Experimental Psychology: General, 2014, 143, 953-958.	2.1	48

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55	Modeling simple driving tasks with a one-boundary diffusion model. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 577-589.	2.8	42
56	Modeling situation awareness and crash risk. <i>Annals of Advances in Automotive Medicine</i> , 2014, 58, 33-9.	0.6	8
57	Towards an understanding of driver inattention: taxonomy and theory. <i>Annals of Advances in Automotive Medicine</i> , 2014, 58, 5-14.	0.6	13
58	Microarray characterization of gene expression changes in blood during acute ethanol exposure. <i>BMC Medical Genomics</i> , 2013, 6, 26.	1.5	15
59	Who Multi-Tasks and Why? Multi-Tasking Ability, Perceived Multi-Tasking Ability, Impulsivity, and Sensation Seeking. <i>PLoS ONE</i> , 2013, 8, e54402.	2.5	306
60	The crosstalk hypothesis: Why language interferes with driving.. <i>Journal of Experimental Psychology: General</i> , 2013, 142, 119-130.	2.1	29
61	Gender Invariance in Multitasking. <i>Psychological Science</i> , 2013, 24, 809-810.	3.3	22
62	The Impact of Eye Movements and Cognitive Workload on Lateral Position Variability in Driving. <i>Human Factors</i> , 2013, 55, 1001-1014.	3.5	71
63	On Attentional Control and the Aging Driver. , 2013, , 20-32.		5
64	Individual differences in working memory capacity predict action monitoring and the error-related negativity.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2012, 38, 757-763.	0.9	48
65	Supertaskers and the Multitasking Brain. <i>Scientific American Mind</i> , 2012, 23, 22-29.	0.0	21
66	Creativity in the Wild: Improving Creative Reasoning through Immersion in Natural Settings. <i>PLoS ONE</i> , 2012, 7, e51474.	2.5	202
67	Cognitive Distraction While Multitasking in the Automobile. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2011, 54, 29-58.	1.1	87
68	Feminine Gender Role Constructs and Aggressive Driving Behaviors. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011, 55, 1559-1562.	0.3	0
69	On the Costs of In-vehicle Assessment of Alcohol Consumption. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011, 55, 1760-1764.	0.3	1
70	Profiles in Cell Phone-Induced Driver Distraction. , 2011, , .		4
71	Action Through Advocacy. <i>Ergonomics in Design</i> , 2011, 19, 23-24.	0.7	0
72	Electrophysiological Evidence for Parallel Response Selection in Skilled Typists. <i>Psychological Science</i> , 2011, 22, 54-56.	3.3	31

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73	Individual differences in susceptibility to inattention blindness.. Journal of Experimental Psychology: Learning Memory and Cognition, 2011, 37, 785-791.	0.9	43
74	Supertaskers: Profiles in extraordinary multitasking ability. Psychonomic Bulletin and Review, 2010, 17, 479-485.	2.8	199
75	The Roles of Working Memory Capacity, Visual Attention and Age in Driving Performance. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 170-174.	0.3	4
76	Bypassing the Bottleneck: The Advantage of Fingertip Shear Feedback for Navigational Cues. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 2042-2047.	0.3	13
77	Text Messaging During Simulated Driving. Human Factors, 2009, 51, 762-770.	3.5	320
78	An Investigation of Driver Distraction Near the Tipping Point of Traffic Flow Stability. Human Factors, 2009, 51, 261-268.	3.5	78
79	New Insights into Driving Using Recurrence Quantification Analysis. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1920-1924.	0.3	0
80	The Red-Line of Workload: Theory, Research, and Design. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1204-1208.	0.3	35
81	Passenger and cell phone conversations in simulated driving.. Journal of Experimental Psychology: Applied, 2008, 14, 392-400.	1.2	234
82	Effects of Simulator Practice and Real-World Experience on Cell-Phone-Related Driver Distraction. Human Factors, 2008, 50, 893-902.	3.5	67
83	Part Task and Variable Priority Training in First-year Anesthesia Resident Education. Anesthesiology, 2008, 108, 831-840.	2.5	39
84	Cellular Phones and Driver Distraction. , 2008, , 169-190.		3
85	Cell-Phone-Induced Driver Distraction. Current Directions in Psychological Science, 2007, 16, 128-131.	5.3	315
86	Development and Evaluation of a Just-in-Time Support System. Human Factors, 2007, 49, 543-551.	3.5	13
87	A Comparison of the Cell Phone Driver and the Drunk Driver. Human Factors, 2006, 48, 381-391.	3.5	432
88	Drug Delivery as Control Task: Improving Performance in a Common Anesthetic Task. Human Factors, 2006, 48, 85-94.	3.5	45
89	Lack of Impairment in Patients with Parkinson's Disease on an Object-Based Negative Priming Task. Perceptual and Motor Skills, 2006, 102, 219-230.	1.3	11
90	Brain Waves Suppressed by cell Phone Conversations. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 2364-2367.	0.3	1

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91	Profiles in Driver Distraction: Effects of Cell Phone Conversations on Younger and Older Drivers. Human Factors, 2004, 46, 640-649.	3.5	374
92	What do Drivers Fail to See When Conversing on a Cell Phone?. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 2213-2217.	0.3	25
93	Passenger and Cell-Phone Conversations in Simulated Driving. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 2210-2212.	0.3	13
94	Conversation Disrupts Change Detection in Complex Traffic Scenes. Human Factors, 2004, 46, 424-436.	3.5	132
95	Preface to the Special Section on Driver Distraction. Human Factors, 2004, 46, 583-586.	3.5	84
96	Effects of Cell Phone Conversations on Younger and Older Drivers. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 1860-1864.	0.3	5
97	Increasing Intraoperative Patient Safety: Monitoring Drug Concentrations. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 1438-1442.	0.3	0
98	Evaluation of Graphic Cardiovascular Display in a High-Fidelity Simulator. Anesthesia and Analgesia, 2003, 97, 1403-1413.	2.2	59
99	Cell phone-induced failures of visual attention during simulated driving.. Journal of Experimental Psychology: Applied, 2003, 9, 23-32.	1.2	747
100	Development and Evaluation of a Graphical Anesthesia Drug Display. Anesthesiology, 2002, 96, 565-575.	2.5	76
101	Negative priming in patients with Parkinson's disease: Evidence for a role of the striatum in inhibitory attentional processes.. Neuropsychology, 2002, 16, 230-241.	1.3	39
102	Engineering psychophysiology: Issues and applications, edited by Richard W. Backs and Wolfram Bousein. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc., 2000. 385 pp.. Psychophysiology, 2002, 39, 406-407.	2.4	0
103	Negative priming and stimulus repetition: A reply to Neill and Joordens (2002). Perception & Psychophysics, 2002, 64, 861-865.	2.3	5
104	Driven to Distraction: Dual-Task Studies of Simulated Driving and Conversing on a Cellular Telephone. Psychological Science, 2001, 12, 462-466.	3.3	907
105	Influence of stimulus repetition on negative priming.. Psychology and Aging, 2001, 16, 580-587.	1.6	30
106	A Dynamic, Evolutionary Perspective on Attention Capture11We are grateful to Chip Folk and Brad Gibson for encouraging us to submit this rather radical perspective on attention capture and to Elizabeth Cashdan and Jim Dannemiller for providing comments on an earlier version of this chapter.. Advances in Psychology, 2001, , 375-397.	0.1	7
107	Further evidence of intact working memory in autism. Journal of Autism and Developmental Disorders, 2001, 31, 257-263.	2.7	218
108	Negative priming and perceptual fluency: More than what meets the eye. Perception & Psychophysics, 2001, 63, 1063-1071.	2.3	53

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109	Novel popout is an attention-based phenomenon: An ERP analysis. <i>Perception &amp; Psychophysics</i> , 2000, 62, 459-470.	2.3	17
110	Negative identity priming is contingent on stimulus repetition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1999, 25, 24-38.	0.9	63
111	Inhibitory Deficits in Tourette Syndrome: A Function of Comorbidity and Symptom Severity. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 1998, 39, 1109-1118.	5.2	99
112	Broad Mindedness and Perceptual Flexibility: Lessons from Dynamic Ecosystems. <i>Advances in Psychology</i> , 1998, 126, 87-103.	0.1	1
113	Inhibitory Deficits in Tourette Syndrome: A Function of Comorbidity and Symptom Severity. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 1998, 39, 1109-1118.	5.2	15
114	Testing race models of visual search.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1997, 23, 566-581.	0.9	3
115	Inhibitory function in nonretarded children with autism. <i>Journal of Autism and Developmental Disorders</i> , 1997, 27, 59-77.	2.7	197
116	Effect of stimulus repetition on positive and negative identity priming. <i>Perception &amp; Psychophysics</i> , 1995, 57, 657-667.	2.3	100
117	Training for attentional control in dual task settings: A comparison of young and old adults.. <i>Journal of Experimental Psychology: Applied</i> , 1995, 1, 50-76.	1.2	293
118	Executive Function Abilities in Autism and Tourette Syndrome: An Information Processing Approach. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 1994, 35, 1015-1032.	5.2	402
119	Strategies and automaticity: I. Basic findings and conceptual framework.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1994, 20, 318-341.	0.9	85
120	Strategies and automaticity: II. Dynamic aspects of strategy adjustment.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1994, 20, 342-365.	0.9	64
121	Aging and skill acquisition: Learning-performance distinctions.. <i>Psychology and Aging</i> , 1994, 9, 589-605.	1.6	84
122	Assessment of pilot performance and mental workload in rotary wing aircraft. <i>Ergonomics</i> , 1993, 36, 1121-1140.	2.1	124
123	Cognitive Function at High Altitude. <i>Human Factors</i> , 1993, 35, 329-344.	3.5	105
124	Event Related Potentials and EEG Components in a Semantic Memory Search Task. <i>Psychophysiology</i> , 1992, 29, 104-119.	2.4	176
125	Task Versus Component Consistency in the Development of Automatic Processing: A Psychophysiological Assessment. <i>Psychophysiology</i> , 1991, 28, 425-437.	2.4	45
126	Development and transfer of automatic processing.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1990, 16, 505-522.	0.9	45



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127	Attentional requirements of automatic and controlled processing.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 67-82.	0.9	84
128	An analysis of memory-based theories of automaticity.. Journal of Experimental Psychology: Learning Memory and Cognition, 1990, 16, 291-304.	0.9	31
129	Assessing the development of automatic processing: An application of dual-task and event-related brain potential methodologies. Biological Psychology, 1988, 26, 231-267.	2.2	243
130	Adult age differences in the speed and capacity of information processing: II. An electrophysiological approach.. Psychology and Aging, 1987, 2, 99-110.	1.6	107
131	A Comparison of the Cell Phone Driver and the Drunk Driver. SSRN Electronic Journal, 0, , .	0.4	11