

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
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133
all docs

133
docs citations

133
times ranked

5773
citing authors

#	ARTICLE	IF	CITATIONS
1	Driven to Distraction: Dual-Task Studies of Simulated Driving and Conversing on a Cellular Telephone. <i>Psychological Science</i> , 2001, 12, 462-466.	3.3	907
2	Cell phone-induced failures of visual attention during simulated driving.. <i>Journal of Experimental Psychology: Applied</i> , 2003, 9, 23-32.	1.2	747
3	A Comparison of the Cell Phone Driver and the Drunk Driver. <i>Human Factors</i> , 2006, 48, 381-391.	3.5	432
4	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
5	Profiles in Driver Distraction: Effects of Cell Phone Conversations on Younger and Older Drivers. <i>Human Factors</i> , 2004, 46, 640-649.	3.5	374
6	Text Messaging During Simulated Driving. <i>Human Factors</i> , 2009, 51, 762-770.	3.5	320
7	Cell-Phone-Induced Driver Distraction. <i>Current Directions in Psychological Science</i> , 2007, 16, 128-131.	5.3	315
8	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
9	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
10	Assessing the development of automatic processing: An application of dual-task and event-related brain potential methodologies. <i>Biological Psychology</i> , 1988, 26, 231-267.	2.2	243
11	Passenger and cell phone conversations in simulated driving.. <i>Journal of Experimental Psychology: Applied</i> , 2008, 14, 392-400.	1.2	234
12	Further evidence of intact working memory in autism. <i>Journal of Autism and Developmental Disorders</i> , 2001, 31, 257-263.	2.7	218
13	Creativity in the Wild: Improving Creative Reasoning through Immersion in Natural Settings. <i>PLoS ONE</i> , 2012, 7, e51474.	2.5	202
14	Supertaskers: Profiles in extraordinary multitasking ability. <i>Psychonomic Bulletin and Review</i> , 2010, 17, 479-485.	2.8	199
15	Inhibitory function in nonretarded children with autism. <i>Journal of Autism and Developmental Disorders</i> , 1997, 27, 59-77.	2.7	197
16	Event Related Potentials and EEG Components in a Semantic Memory Search Task. <i>Psychophysiology</i> , 1992, 29, 104-119.	2.4	176
17	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
18	Assessing Cognitive Distraction in the Automobile. <i>Human Factors</i> , 2015, 57, 1300-1324.	3.5	161

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19	Conversation Disrupts Change Detection in Complex Traffic Scenes. <i>Human Factors</i> , 2004, 46, 424-436.	3.5	132
20	Assessment of pilot performance and mental workload in rotary wing aircraft. <i>Ergonomics</i> , 1993, 36, 1121-1140.	2.1	124
21	Adult age differences in the speed and capacity of information processing: II. An electrophysiological approach.. <i>Psychology and Aging</i> , 1987, 2, 99-110.	1.6	107
22	Cognitive Function at High Altitude. <i>Human Factors</i> , 1993, 35, 329-344.	3.5	105
23	Effect of stimulus repetition on positive and negative identity priming. <i>Perception & Psychophysics</i> , 1995, 57, 657-667.	2.3	100
24	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
25	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
26	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
27	Attentional requirements of automatic and controlled processing.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1990, 16, 67-82.	0.9	84
28	Aging and skill acquisition: Learning-performance distinctions.. <i>Psychology and Aging</i> , 1994, 9, 589-605.	1.6	84
29	Preface to the Special Section on Driver Distraction. <i>Human Factors</i> , 2004, 46, 583-586.	3.5	84
30	An Investigation of Driver Distraction Near the Tipping Point of Traffic Flow Stability. <i>Human Factors</i> , 2009, 51, 261-268.	3.5	78
31	Media Multitasking and Cognitive, Psychological, Neural, and Learning Differences. <i>Pediatrics</i> , 2017, 140, S62-S66.	2.1	78
32	Development and Evaluation of a Graphical Anesthesia Drug Display. <i>Anesthesiology</i> , 2002, 96, 565-575.	2.5	76
33	Cognitive underpinnings of beliefs and confidence in beliefs about fully automated vehicles. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018, 55, 114-122.	3.7	75
34	Advanced driver assistance systems: Using multimodal redundant warnings to enhance road safety. <i>Applied Ergonomics</i> , 2017, 58, 238-244.	3.1	73
35	The smartphone and the driver's cognitive workload: A comparison of Apple, Google, and Microsoft's intelligent personal assistants.. <i>Canadian Journal of Experimental Psychology</i> , 2017, 71, 93-110.	0.8	72
36	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

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37	Effects of Simulator Practice and Real-World Experience on Cell-Phone-Related Driver Distraction. <i>Human Factors</i> , 2008, 50, 893-902.	3.5	67
38	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
39	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
40	Evaluation of Graphic Cardiovascular Display in a High-Fidelity Simulator. <i>Anesthesia and Analgesia</i> , 2003, 97, 1403-1413.	2.2	59
41	Negative priming and perceptual fluency: More than what meets the eye. <i>Perception & Psychophysics</i> , 2001, 63, 1063-1071.	2.3	53
42	Talking to your car can drive you to distraction. <i>Cognitive Research: Principles and Implications</i> , 2016, 1, 16.	2.0	49
43	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
44	Hierarchical control and driving.. <i>Journal of Experimental Psychology: General</i> , 2014, 143, 953-958.	2.1	48
45	Development and transfer of automatic processing.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1990, 16, 505-522.	0.9	45
46	Task Versus Component Consistency in the Development of Automatic Processing: A Psychophysiological Assessment. <i>Psychophysiology</i> , 1991, 28, 425-437.	2.4	45
47	Drug Delivery as Control Task: Improving Performance in a Common Anesthetic Task. <i>Human Factors</i> , 2006, 48, 85-94.	3.5	45
48	SPIDER. <i>Human Factors</i> , 2016, 58, 5-12.	3.5	45
49	Individual differences in susceptibility to inattention blindness.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2011, 37, 785-791.	0.9	43
50	Modeling simple driving tasks with a one-boundary diffusion model. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 577-589.	2.8	42
51	Negative priming in patients with Parkinson's disease: Evidence for a role of the striatum in inhibitory attentional processes.. <i>Neuropsychology</i> , 2002, 16, 230-241.	1.3	39
52	Part Task and Variable Priority Training in First-year Anesthesia Resident Education. <i>Anesthesiology</i> , 2008, 108, 831-840.	2.5	39
53	The Red-Line of Workload: Theory, Research, and Design. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 1204-1208.	0.3	35
54	On Supertaskers and the Neural Basis of Efficient Multitasking. <i>Psychonomic Bulletin and Review</i> , 2015, 22, 876-883.	2.8	34

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55	Modeling cognitive load effects of conversation between a passenger and driver. <i>Attention, Perception, and Psychophysics</i> , 2017, 79, 1795-1803.	1.3	34
56	Visual and Cognitive Demands of CarPlay, Android Auto, and Five Native Infotainment Systems. <i>Human Factors</i> , 2019, 61, 1371-1386.	3.5	33
57	80 MPH and out-of-the-loop: Effects of real-world semi-automated driving on driver workload and arousal. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018, 62, 1878-1882.	0.3	32
58	An analysis of memory-based theories of automaticity.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1990, 16, 291-304.	0.9	31
59	Electrophysiological Evidence for Parallel Response Selection in Skilled Typists. <i>Psychological Science</i> , 2011, 22, 54-56.	3.3	31
60	Influence of stimulus repetition on negative priming.. <i>Psychology and Aging</i> , 2001, 16, 580-587.	1.6	30
61	Cell-phone use diminishes self-awareness of impaired driving. <i>Psychonomic Bulletin and Review</i> , 2016, 23, 617-623.	2.8	30
62	Assessing the visual and cognitive demands of in-vehicle information systems. <i>Cognitive Research: Principles and Implications</i> , 2019, 4, 18.	2.0	30
63	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
64	The crosstalk hypothesis: Why language interferes with driving.. <i>Journal of Experimental Psychology: General</i> , 2013, 142, 119-130.	2.1	29
65	Why drivers use cell phones and support legislation to restrict this practice. <i>Accident Analysis and Prevention</i> , 2016, 92, 22-33.	5.7	28
66	What do Drivers Fail to See When Conversing on a Cell Phone?. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2004, 48, 2213-2217.	0.3	25
67	Working memory's workload capacity. <i>Memory and Cognition</i> , 2015, 43, 973-989.	1.6	23
68	Gender Invariance in Multitasking. <i>Psychological Science</i> , 2013, 24, 809-810.	3.3	22
69	Supertaskers and the Multitasking Brain. <i>Scientific American Mind</i> , 2012, 23, 22-29.	0.0	21
70	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
71	Working memory capacity and task goals modulate error-related ERPs. <i>Psychophysiology</i> , 2018, 55, e12805.	2.4	20
72	The Challenge of Advanced Driver Assistance Systems Assessment: A Scale for the Assessment of the Human-Machine Interface of Advanced Driver Assistance Technology. <i>Transportation Research Record</i> , 2018, 2672, 113-122.	1.9	20

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73	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
74	Novel popout is an attention-based phenomenon: An ERP analysis. Perception & Psychophysics, 2000, 62, 459-470.	2.3	17
75	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
76	Stereotype Threat Impairs Older Adult Driving. Applied Cognitive Psychology, 2016, 30, 22-28.	1.6	16
77	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
78	Microarray characterization of gene expression changes in blood during acute ethanol exposure. BMC Medical Genomics, 2013, 6, 26.	1.5	15
79	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
80	Inhibitory Deficits in Tourette Syndrome: A Function of Comorbidity and Symptom Severity. Journal of Child Psychology and Psychiatry and Allied Disciplines, 1998, 39, 1109-1118.	5.2	15
81	Passenger and Cell-Phone Conversations in Simulated Driving. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 2210-2212.	0.3	13
82	Development and Evaluation of a Just-in-Time Support System. Human Factors, 2007, 49, 543-551.	3.5	13
83	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
84	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
85	Towards an understanding of driver inattention: taxonomy and theory. Annals of Advances in Automotive Medicine, 2014, 58, 5-14.	0.6	13
86	Resting-state posterior alpha power changes with prolonged exposure in a natural environment. Cognitive Research: Principles and Implications, 2020, 5, 51.	2.0	12
87	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
88	Driven to Distraction. Human Factors, 2015, 57, 1343-1347.	3.5	11
89	Nature as a potential modulator of the error-related negativity: A registered report. International Journal of Psychophysiology, 2020, 156, 49-59.	1.0	11
90	A Comparison of the Cell Phone Driver and the Drunk Driver. SSRN Electronic Journal, 0, , .	0.4	11

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91	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
92	Modeling situation awareness and crash risk. <i>Annals of Advances in Automotive Medicine</i> , 2014, 58, 33-9.	0.6	8
93	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.. <i>Advances in Psychology</i> , 2001, , 375-397.	0.1	7
94	Cognitive Workload Using Interactive Voice Messaging Systems. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 1894-1898.	0.3	7
95	Cognitive Distraction Impairs Drivers' Anticipatory Glances: An On-Road Study. , 2015, , .		7
96	Electroencephalographic and cardiovascular markers of vulnerability within families of suicidal adolescents: A pilot study. <i>Biological Psychology</i> , 2018, 136, 46-56.	2.2	6
97	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
98	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
99	Negative priming and stimulus repetition: A reply to Neill and Joordens (2002). <i>Perception & Psychophysics</i> , 2002, 64, 861-865.	2.3	5
100	Effects of Cell Phone Conversations on Younger and Older Drivers. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003, 47, 1860-1864.	0.3	5
101	Partial-autonomous Frenzy: Driving a Level-2 Vehicle on the Open Road. <i>Lecture Notes in Computer Science</i> , 2017, , 329-338.	1.3	5
102	On Attentional Control and the Aging Driver. , 2013, , 20-32.		5
103	The persistence of distraction: The hidden costs of intermittent multitasking.. <i>Journal of Experimental Psychology: Applied</i> , 2022, 28, 262-282.	1.2	5
104	The Roles of Working Memory Capacity, Visual Attention and Age in Driving Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2010, 54, 170-174.	0.3	4
105	Profiles in Cell Phone-Induced Driver Distraction. , 2011, , .		4
106	Small Screen Use and Driving Safety. <i>Pediatrics</i> , 2017, 140, S107-S111.	2.1	4
107	The Effects of Voice System Design Components on Driver Workload. <i>Transportation Research Record</i> , 2018, 2672, 94-100.	1.9	4
108	Testing race models of visual search.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1997, 23, 566-581.	0.9	3

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109	The Residual Costs of Multitasking. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1967-1970.	0.3	3
110	Real-time prediction of short-timescale fluctuations in cognitive workload. Cognitive Research: Principles and Implications, 2021, 6, 30.	2.0	3
111	Cellular Phones and Driver Distraction. , 2008, , 169-190.		3
112	A cognitive model of response omissions in distraction paradigms. Memory and Cognition, 2021, , 1.	1.6	3
113	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
114	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
115	Examining the effect of infotainment auditory-vocal systems' design components on workload and usability. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 62, 520-528.	3.7	2
116	What Cognitive Psychology Can Tell Us About Educational Computer Games. Advances in Game-based Learning Book Series, 2017, , 1-18.	0.2	2
117	Driver Arousal and Workload Under Partial Vehicle Automation: A Pilot Study. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1955-1959.	0.3	2
118	On-Road vehicle study of the experience of automated driving. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 87, 444-453.	3.7	2
119	Broad Mindedness and Perceptual Flexibility: Lessons from Dynamic Ecosystems. Advances in Psychology, 1998, 126, 87-103.	0.1	1
120	Brain Waves Suppressed by cell Phone Conversations. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 2364-2367.	0.3	1
121	On the Costs of In-vehicle Assessment of Alcohol Consumption. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1760-1764.	0.3	1
122	Driven to comment: Learning from older drivers impressions of in-vehicle technologies. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 22-26.	0.3	1
123	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
124	Increasing Intraoperative Patient Safety: Monitoring Drug Concentrations. Proceedings of the Human Factors and Ergonomics Society, 2003, 47, 1438-1442.	0.3	0
125	New Insights into Driving Using Recurrence Quantification Analysis. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1920-1924.	0.3	0
126	Feminine Gender Role Constructs and Aggressive Driving Behaviors. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1559-1562.	0.3	0

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127	Action Through Advocacy. Ergonomics in Design, 2011, 19, 23-24.	0.7	0
128	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
129	What Cognitive Psychology Can Tell Us About Educational Computer Games. , 2021, , 399-416.		0
130	Aging and Driving. , 2016, , 1-9.		0
131	Aging and Driving. , 2017, , 172-180.		0