

David L Strayer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127
papers

7,343
citations

42
h-index

85
g-index

133
ext. papers

8,100
ext. citations

2.9
avg, IF

6.16
L-index

#	Paper	IF	Citations
127	On-Road vehicle study of the experience of automated driving. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2022 , 87, 444-453	4.5	
126	Real-time prediction of short-timescale fluctuations in cognitive workload. <i>Cognitive Research: Principles and Implications</i> , 2021 , 6, 30	2.7	0
125	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	5.1	1
124	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	4.1	4
123	What Cognitive Psychology Can Tell Us About Educational Computer Games 2021 , 399-416		
122	This Is Your Brain on Autopilot: Neural Indices of Driver Workload and Engagement During Partial Vehicle Automation. <i>Human Factors</i> , 2021 , 187208211039091	3.8	5
121	A cognitive model of response omissions in distraction paradigms.. <i>Memory and Cognition</i> , 2021 , 1	2.2	0
120	Age-Related Differences in the Cognitive, Visual, and Temporal Demands of In-Vehicle Information Systems. <i>Frontiers in Psychology</i> , 2020 , 11, 1154	3.4	4
119	Resting-state posterior alpha power changes with prolonged exposure in a natural environment. <i>Cognitive Research: Principles and Implications</i> , 2020 , 5, 51	2.7	2
118	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	0.4	0
117	Nature as a potential modulator of the error-related negativity: A registered report. <i>International Journal of Psychophysiology</i> , 2020 , 156, 49-59	2.9	2
116	Examining the effect of infotainment auditory-vocal systems design components on workload and usability. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019 , 62, 520-528	4.5	1
115	A Review of Psychophysiological Measures to Assess Cognitive States in Real-World Driving. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 57	3.3	105
114	Visual and Cognitive Demands of CarPlay, Android Auto, and Five Native Infotainment Systems. <i>Human Factors</i> , 2019 , 61, 1371-1386	3.8	21
113	Assessing the visual and cognitive demands of in-vehicle information systems. <i>Cognitive Research: Principles and Implications</i> , 2019 , 4, 18	2.7	11
112	Cognitive workload measurement and modeling under divided attention. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2019 , 45, 826-839	2.6	15
111	Using response time modeling to understand the sources of dual-task interference in a dynamic environment. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2019 , 45, 1331-1345	2.6	8

110	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	0.4	0
109	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	4.5	46
108	Working memory capacity and task goals modulate error-related ERPs. <i>Psychophysiology</i> , 2018 , 55, e12805	4.5	16
107	The Effects of Voice System Design Components on Driver Workload. <i>Transportation Research Record</i> , 2018 , 2672, 94-100	1.7	2
106	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	1.7	10
105	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	0.4	20
104	Utilizing a Remote LED Stimulus to Concurrently Measure Cognitive and Visual Task Demand. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018 , 62, 1-5	0.4	
103	Performance and Workload Trends: The Effects of Repeated Exposure to High-Demand Tasks. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2018 , 62, 6-10	0.4	1
102	Electroencephalographic and cardiovascular markers of vulnerability within families of suicidal adolescents: A pilot study. <i>Biological Psychology</i> , 2018 , 136, 46-56	3.2	3
101	Modeling cognitive load effects of conversation between a passenger and driver. <i>Attention, Perception, and Psychophysics</i> , 2017 , 79, 1795-1803	2	17
100	Media Multitasking and Cognitive, Psychological, Neural, and Learning Differences. <i>Pediatrics</i> , 2017 , 140, S62-S66	7.4	52
99	Advanced driver assistance systems: Using multimodal redundant warnings to enhance road safety. <i>Applied Ergonomics</i> , 2017 , 58, 238-244	4.2	51
98	Small Screen Use and Driving Safety. <i>Pediatrics</i> , 2017 , 140, S107-S111	7.4	2
97	Partial-autonomous Frenzy: Driving a Level-2 Vehicle on the Open Road. <i>Lecture Notes in Computer Science</i> , 2017 , 329-338	0.9	4
96	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	47
95	What Cognitive Psychology Can Tell Us About Educational Computer Games. <i>Advances in Game-based Learning Book Series</i> , 2017 , 1-18	0.5	2
94	The Residual Costs of Multitasking: Causing Trouble down the Road. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 1967-1970	0.4	2
93	On Working Memory and a Productivity Illusion in Distracted Driving. <i>Journal of Applied Research in Memory and Cognition</i> , 2016 , 5, 445-453	2.3	9

92	Talking to your car can drive you to distraction. <i>Cognitive Research: Principles and Implications</i> , 2016 , 1, 16	2.7	24
91	SPIDER: A Framework for Understanding Driver Distraction. <i>Human Factors</i> , 2016 , 58, 5-12	3.8	30
90	Cell-phone use diminishes self-awareness of impaired driving. <i>Psychonomic Bulletin and Review</i> , 2016 , 23, 617-23	4.1	18
89	Evaluating Demands Associated with the Use of Voice-Based In-Vehicle Interfaces. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 2083-2087	0.4	2
88	Cognitive Workload Using Interactive Voice Messaging Systems. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 1894-1898	0.4	5
87	Extending the Detection Response Task to Simultaneously Measure Cognitive and Visual Task Demands. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 1962-1966	0.4	11
86	Why drivers use cell phones and support legislation to restrict this practice. <i>Accident Analysis and Prevention</i> , 2016 , 92, 22-33	6.1	22
85	Validating Two Assessment Strategies for Visual and Cognitive Load in a Simulated Driving Task. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016 , 60, 1899-1903	0.4	13
84	Stereotype Threat Impairs Older Adult Driving. <i>Applied Cognitive Psychology</i> , 2016 , 30, 22-28	2.1	7
83	Is the Technology in Your Car Driving You to Distraction?. <i>Policy Insights From the Behavioral and Brain Sciences</i> , 2015 , 2, 157-165	2.1	14
82	Assessing Cognitive Distraction in the Automobile. <i>Human Factors</i> , 2015 , 57, 1300-24	3.8	111
81	Driven to Distraction. <i>Human Factors</i> , 2015 , 57, 1343-7	3.8	8
80	Working memory's workload capacity. <i>Memory and Cognition</i> , 2015 , 43, 973-89	2.2	15
79	On supertaskers and the neural basis of efficient multitasking. <i>Psychonomic Bulletin and Review</i> , 2015 , 22, 876-83	4.1	25
78	Cognitive Distraction Impairs Drivers' Anticipatory Glances: An On-Road Study 2015 ,		7
77	Hierarchical control and driving. <i>Journal of Experimental Psychology: General</i> , 2014 , 143, 953-8	4.7	42
76	Modeling simple driving tasks with a one-boundary diffusion model. <i>Psychonomic Bulletin and Review</i> , 2014 , 21, 577-89	4.1	30
75	Modeling situation awareness and crash risk. <i>Annals of Advances in Automotive Medicine</i> , 2014 , 58, 33-9		7

74	Towards an understanding of driver inattention: taxonomy and theory. <i>Annals of Advances in Automotive Medicine</i> , 2014 , 58, 5-14		11
73	Microarray characterization of gene expression changes in blood during acute ethanol exposure. <i>BMC Medical Genomics</i> , 2013 , 6, 26	3.7	10
72	Who multi-tasks and why? Multi-tasking ability, perceived multi-tasking ability, impulsivity, and sensation seeking. <i>PLoS ONE</i> , 2013 , 8, e54402	3.7	236
71	The crosstalk hypothesis: why language interferes with driving. <i>Journal of Experimental Psychology: General</i> , 2013 , 142, 119-130	4.7	25
70	Gender invariance in multitasking: a comment on M̄tyl̄(2013). <i>Psychological Science</i> , 2013 , 24, 809-10: discussion 811-2	7.9	19
69	The impact of eye movements and cognitive workload on lateral position variability in driving. <i>Human Factors</i> , 2013 , 55, 1001-14	3.8	55
68	On Attentional Control and the Aging Driver 2013 , 20-32		3
67	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	2.2	39
66	Supertaskers and the Multitasking Brain. <i>Scientific American Mind</i> , 2012 , 23, 22-29		17
65	Creativity in the wild: improving creative reasoning through immersion in natural settings. <i>PLoS ONE</i> , 2012 , 7, e51474	3.7	145
64	Cognitive Distraction While Multitasking in the Automobile. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2011 , 54, 29-58	1.4	59
63	Feminine Gender Role Constructs and Aggressive Driving Behaviors. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011 , 55, 1559-1562	0.4	
62	On the Costs of In-vehicle Assessment of Alcohol Consumption. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2011 , 55, 1760-1764	0.4	1
61	Profiles in Cell Phone-Induced Driver Distraction 2011 ,		3
60	Electrophysiological evidence for parallel response selection in skilled typists. <i>Psychological Science</i> , 2011 , 22, 54-6	7.9	24
59	Individual differences in susceptibility to inattention blindness. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2011 , 37, 785-91	2.2	35
58	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	0.4	3
57	Bypassing the Bottleneck: The Advantage of Fingertip Shear Feedback for Navigational Cues. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2010 , 54, 2042-2047	0.4	11

56	Supertaskers: Profiles in extraordinary multitasking ability. <i>Psychonomic Bulletin and Review</i> , 2010 , 17, 479-85	4.1	165
55	Text messaging during simulated driving. <i>Human Factors</i> , 2009 , 51, 762-70	3.8	272
54	An investigation of driver distraction near the tipping point of traffic flow stability. <i>Human Factors</i> , 2009 , 51, 261-8	3.8	70
53	New Insights into Driving Using Recurrence Quantification Analysis. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008 , 52, 1920-1924	0.4	
52	The Red-Line of Workload: Theory, Research, and Design. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008 , 52, 1204-1208	0.4	24
51	Passenger and cell phone conversations in simulated driving. <i>Journal of Experimental Psychology: Applied</i> , 2008 , 14, 392-400	1.8	184
50	Effects of simulator practice and real-world experience on cell-phone-related driver distraction. <i>Human Factors</i> , 2008 , 50, 893-902	3.8	54
49	Part Task and variable priority training in first-year anesthesia resident education: a combined didactic and simulation-based approach to improve management of adverse airway and respiratory events. <i>Anesthesiology</i> , 2008 , 108, 831-40	4.3	31
48	Cellular Phones and Driver Distraction 2008 , 169-190		1
47	Cell-Phone-Induced Driver Distraction. <i>Current Directions in Psychological Science</i> , 2007 , 16, 128-131	6.5	257
46	Development and evaluation of a just-in-time support system. <i>Human Factors</i> , 2007 , 49, 543-51	3.8	11
45	Lack of impairment in patients with Parkinson's disease on an object-based negative priming task. <i>Perceptual and Motor Skills</i> , 2006 , 102, 219-30	2.2	10
44	Brain Waves Suppressed by cell Phone Conversations. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2006 , 50, 2364-2367	0.4	0
43	A comparison of the cell phone driver and the drunk driver. <i>Human Factors</i> , 2006 , 48, 381-91	3.8	356
42	Drug delivery as control task: improving performance in a common anesthetic task. <i>Human Factors</i> , 2006 , 48, 85-94	3.8	35
41	Profiles in driver distraction: effects of cell phone conversations on younger and older drivers. <i>Human Factors</i> , 2004 , 46, 640-9	3.8	324
40	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	0.4	15
39	Passenger and Cell-Phone Conversations in Simulated Driving. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2004 , 48, 2210-2212	0.4	11

38	Conversation disrupts change detection in complex traffic scenes. <i>Human Factors</i> , 2004 , 46, 424-36	3.8	117
37	Preface to the special section on driver distraction. <i>Human Factors</i> , 2004 , 46, 583-6	3.8	70
36	Evaluation of graphic cardiovascular display in a high-fidelity simulator. <i>Anesthesia and Analgesia</i> , 2003 , 97, 1403-1413	3.9	51
35	Cell phone-induced failures of visual attention during simulated driving. <i>Journal of Experimental Psychology: Applied</i> , 2003 , 9, 23-32	1.8	597
34	Effects of Cell Phone Conversations on Younger and Older Drivers. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003 , 47, 1860-1864	0.4	3
33	Increasing Intraoperative Patient Safety: Monitoring Drug Concentrations. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2003 , 47, 1438-1442	0.4	
32	Engineering psychophysiology: Issues and applications, edited by Richard W. Backs and Wolfram Bousein. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc., 2000. 385 pp.. <i>Psychophysiology</i> , 2002 , 39, 406-417	4.1	407
31	Negative priming and stimulus repetition: A reply to Neill and Joordens (2002). <i>Perception & Psychophysics</i> , 2002 , 64, 861-865		4
30	Development and evaluation of a graphical anesthesia drug display. <i>Anesthesiology</i> , 2002 , 96, 565-75	4.3	67
29	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	3.8	39
28	Influence of stimulus repetition on negative priming.. <i>Psychology and Aging</i> , 2001 , 16, 580-587	3.6	29
27	A Dynamic, Evolutionary Perspective on Attention Capture We 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 paper. <i>Attentional Psychology</i> , 2001 , 275-287		2
26	Further evidence of intact working memory in autism. <i>Journal of Autism and Developmental Disorders</i> , 2001 , 31, 257-63	4.6	174
25	Negative priming and perceptual fluency: more than what meets the eye. <i>Perception & Psychophysics</i> , 2001 , 63, 1063-71		47
24	Driven to distraction: dual-Task studies of simulated driving and conversing on a cellular telephone. <i>Psychological Science</i> , 2001 , 12, 462-6	7.9	746
23	Novel popout is an attention-based phenomenon: an ERP analysis. <i>Perception & Psychophysics</i> , 2000 , 62, 459-70		12
22	Negative identity priming is contingent on stimulus repetition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1999 , 25, 24-38	2.6	63
21	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	7.9	91

20	Broad Mindedness and Perceptual Flexibility: Lessons from Dynamic Ecosystems. <i>Advances in Psychology</i> , 1998 , 126, 87-103		
19	Inhibitory Deficits in Tourette Syndrome: A Function of Comorbidity and Symptom Severity 1998 , 39, 1109		15
18	Testing race models of visual search.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1997 , 23, 566-581	2.6	2
17	Inhibitory function in nonretarded children with autism. <i>Journal of Autism and Developmental Disorders</i> , 1997 , 27, 59-77	4.6	161
16	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	1.8	221
15	Effect of stimulus repetition on positive and negative identity priming. <i>Perception & Psychophysics</i> , 1995 , 57, 657-67		86
14	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, 1015-32	7.9	356
13	Strategies and automaticity: I. Basic findings and conceptual framework.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1994 , 20, 318-341	2.2	55
12	Strategies and automaticity: II. Dynamic aspects of strategy adjustment.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1994 , 20, 342-365	2.2	42
11	Aging and skill acquisition: Learning-performance distinctions.. <i>Psychology and Aging</i> , 1994 , 9, 589-605	3.6	70
10	Assessment of pilot performance and mental workload in rotary wing aircraft. <i>Ergonomics</i> , 1993 , 36, 1121-40	2.9	94
9	Cognitive function at high altitude. <i>Human Factors</i> , 1993 , 35, 329-44	3.8	85
8	Event related potentials and EEG components in a semantic memory search task. <i>Psychophysiology</i> , 1992 , 29, 104-19	4.1	161
7	Task versus component consistency in the development of automatic processing: a psychophysiological assessment. <i>Psychophysiology</i> , 1991 , 28, 425-37	4.1	37
6	Development and transfer of automatic processing.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1990 , 16, 505-522	2.6	36
5	Attentional requirements of automatic and controlled processing.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1990 , 16, 67-82	2.2	66
4	An analysis of memory-based theories of automaticity.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 1990 , 16, 291-304	2.2	19
3	Assessing the development of automatic processing: an application of dual-task and event-related brain potential methodologies. <i>Biological Psychology</i> , 1988 , 26, 231-67	3.2	226

2	Adult age differences in the speed and capacity of information processing: II. An electrophysiological approach.. <i>Psychology and Aging</i> , 1987 , 2, 99-110	3.6	104
1	A Comparison of the Cell Phone Driver and the Drunk Driver. <i>SSRN Electronic Journal</i> ,	1	6