

# Tom Brijs

## List of Publications by Year in descending order

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Version: 2024-02-01

119  
papers

3,294  
citations

136950

32  
h-index

197818

49  
g-index

120  
all docs

120  
docs citations

120  
times ranked

2600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Studying the effect of weather conditions on daily crash counts using a discrete time-series model. Accident Analysis and Prevention, 2008, 40, 1180-1190.	5.7	171
2	Benchmarking road safety: Lessons to learn from a data envelopment analysis. Accident Analysis and Prevention, 2009, 41, 174-182.	5.7	117
3	Road safety risk evaluation and target setting using data envelopment analysis and its extensions. Accident Analysis and Prevention, 2012, 48, 430-441.	5.7	100
4	Explaining variation in safety performance of roundabouts. Accident Analysis and Prevention, 2010, 42, 393-402.	5.7	88
5	Investigating the influence of working memory capacity when driving behavior is combined with cognitive load: An LCT study of young novice drivers. Accident Analysis and Prevention, 2014, 62, 377-387.	5.7	83
6	Integrating Bayesian networks and decision trees in a sequential rule-based transportation model. European Journal of Operational Research, 2006, 175, 16-34.	5.7	76
7	Speed perception and actual speed in a driving simulator and real-world: A validation study. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 62, 637-650.	3.7	72
8	The relationship between impact speed and the probability of pedestrian fatality during a vehicle-pedestrian crash: A systematic review and meta-analysis. Accident Analysis and Prevention, 2019, 129, 241-249.	5.7	68
9	A generalized multiple layer data envelopment analysis model for hierarchical structure assessment: A case study in road safety performance evaluation. Expert Systems With Applications, 2011, 38, 15262-15272.	7.6	67
10	An evaluation of graduated driver licensing programs in North America using a meta-analytic approach. Accident Analysis and Prevention, 2009, 41, 1104-1111.	5.7	65
11	Application of Geographically Weighted Regression Technique in Spatial Analysis of Fatal and Injury Crashes. Journal of Transportation Engineering, 2014, 140, .	0.9	65
12	Building an Association Rules Framework to Improve Product Assortment Decisions. Data Mining and Knowledge Discovery, 2004, 8, 7-23.	3.7	63
13	Profiling of High-Frequency Accident Locations by Use of Association Rules. Transportation Research Record, 2003, 1840, 123-130.	1.9	62
14	The Relation Between Cognitive Control and Risky Driving in Young Novice Drivers. Applied Neuropsychology Adult, 2015, 22, 61-72.	1.2	60
15	Safety effects of reducing the speed limit from 90km/h to 70km/h. Accident Analysis and Prevention, 2014, 62, 426-431.	5.7	58
16	Injury crashes with bicyclists at roundabouts: influence of some location characteristics and the design of cycle facilities. Journal of Safety Research, 2009, 40, 141-148.	3.6	57
17	Data Envelopment Analysis for Composite Indicators: A Multiple Layer Model. Social Indicators Research, 2013, 114, 739-756.	2.7	54
18	Externality of risk and crash severity at roundabouts. Accident Analysis and Prevention, 2010, 42, 1966-1973.	5.7	53

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19	An evaluation of the traffic safety effect of fixed speed cameras. <i>Safety Science</i> , 2014, 62, 168-174.	4.9	53
20	A simulator study on the impact of traffic calming measures in urban areas on driving behavior and workload. <i>Accident Analysis and Prevention</i> , 2013, 61, 43-53.	5.7	47
21	The effect of pavement markings on driving behaviour in curves: a simulator study. <i>Ergonomics</i> , 2017, 60, 701-713.	2.1	46
22	Identification and Ranking of Black Spots: Sensitivity Analysis. <i>Transportation Research Record</i> , 2004, 1897, 34-42.	1.9	45
23	Does attention capacity moderate the effect of driver distraction in older drivers?. <i>Accident Analysis and Prevention</i> , 2015, 77, 12-20.	5.7	45
24	Driving with intelligent speed adaptation: Final results of the Belgian ISA-trial. <i>Transportation Research, Part A: Policy and Practice</i> , 2007, 41, 267-279.	4.2	44
25	Behavioural effects of fixed speed cameras on motorways: Overall improved speed compliance or kangaroo jumps?. <i>Accident Analysis and Prevention</i> , 2014, 73, 132-140.	5.7	42
26	Road Safety Risk Assessment: An Analysis of Transport Policy and Management for Low-, Middle-, and High-Income Asian Countries. <i>Sustainability</i> , 2018, 10, 389.	3.2	40
27	Extended prediction models for crashes at roundabouts. <i>Safety Science</i> , 2011, 49, 198-207.	4.9	38
28	Assessing the road safety impacts of a teleworking policy by means of geographically weighted regression method. <i>Journal of Transport Geography</i> , 2014, 39, 96-110.	5.0	38
29	Inhibitory control and reward predict risky driving in young novice drivers – a simulator study. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 20, 604-612.	0.5	35
30	Traffic fatality indicators in Brazil: State diagnosis based on data envelopment analysis research. <i>Accident Analysis and Prevention</i> , 2015, 81, 61-73.	5.7	34
31	Drivers'™ behavioral responses to combined speed and red light cameras. <i>Accident Analysis and Prevention</i> , 2015, 81, 153-166.	5.7	34
32	Road safety development in Europe: A decade of changes (2001–2010). <i>Accident Analysis and Prevention</i> , 2013, 60, 85-94.	5.7	33
33	Effect of a working memory training on aspects of cognitive ability and driving ability of older drivers: Merits of an adaptive training over a non-adaptive training. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2016, 42, 15-27.	3.7	33
34	Investigating risky, distracting, and protective peer passenger effects in a dual process framework. <i>Accident Analysis and Prevention</i> , 2016, 93, 217-225.	5.7	33
35	Inter-national benchmarking of road safety: State of the art. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 50, 37-50.	7.6	32
36	Impact of perceptual countermeasures on driving behavior at curves using driving simulator. <i>Traffic Injury Prevention</i> , 2019, 20, 93-99.	1.4	32

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37	Comparing complete and partial classification for identifying customers at risk. <i>International Journal of Research in Marketing</i> , 2003, 20, 117-131.	4.2	31
38	Road Safety Differences between Priority-Controlled Intersections and Right-Hand Priority Intersections. <i>Transportation Research Record</i> , 2013, 2365, 39-48.	1.9	31
39	Towards better road safety management: Lessons learned from inter-national benchmarking. <i>Accident Analysis and Prevention</i> , 2020, 138, 105484.	5.7	31
40	Improving Performance of Multiagent Rule-Based Model for Activity Pattern Decisions with Bayesian Networks. <i>Transportation Research Record</i> , 2004, 1894, 75-83.	1.9	30
41	Identifying Crash Patterns on Roundabouts. <i>Traffic Injury Prevention</i> , 2015, 16, 202-207.	1.4	30
42	Additional road markings as an indication of speed limits: Results of a field experiment and a driving simulator study. <i>Accident Analysis and Prevention</i> , 2010, 42, 953-960.	5.7	29
43	Investigating the impact of dynamic merge control strategies on driving behavior on rural and urban expressways – A driving simulator study. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 65, 469-484.	3.7	29
44	Modeling qualitative data in data envelopment analysis for composite indicators. <i>International Journal of Systems Assurance Engineering and Management</i> , 2011, 2, 21-30.	2.4	28
45	Evaluating the road safety effects of a fuel cost increase measure by means of zonal crash prediction modeling. <i>Accident Analysis and Prevention</i> , 2013, 50, 186-195.	5.7	28
46	Road Safety Risk Evaluation Using GIS-Based Data Envelopment Analysis – Artificial Neural Networks Approach. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 886.	2.5	28
47	The impact of cognitive functioning on driving performance of older persons in comparison to younger age groups: A systematic review. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 73, 433-452.	3.7	28
48	Psychological determinants of motorcycle helmet use among young adults in Cambodia. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2014, 26, 273-290.	3.7	27
49	The relations between specific measures of simulated driving ability and functional ability: New insights for assessment and training programs of older drivers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2016, 39, 65-78.	3.7	27
50	Estimation of safety performance functions for urban intersections using various functional forms of the negative binomial regression model and a generalized Poisson regression model. <i>Accident Analysis and Prevention</i> , 2021, 151, 105964.	5.7	27
51	Automated section speed control on motorways: An evaluation of the effect on driving speed. <i>Accident Analysis and Prevention</i> , 2014, 73, 313-322.	5.7	25
52	Innovative countermeasures for red light running prevention at signalized intersections: A driving simulator study. <i>Accident Analysis and Prevention</i> , 2020, 134, 105349.	5.7	25
53	Low-cost road marking measures for increasing safety in horizontal curves: A driving simulator study. <i>Accident Analysis and Prevention</i> , 2021, 153, 106013.	5.7	25
54	An experimental approach towards the evaluation of a seat belt campaign with an inside view on the psychology behind seat belt use. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2011, 14, 600-613.	3.7	24

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55	Does the effect of traffic calming measures endure over time? â€œ A simulator study on the influence of gates. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2014, 22, 63-75.	3.7	24
56	Exploring psychological factors of mobile phone use while riding among motorcyclists in Vietnam. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2020, 73, 292-306.	3.7	24
57	Safety implications of higher levels of automated vehicles: a scoping review. <i>Transport Reviews</i> , 2022, 42, 245-267.	8.8	24
58	Application of Different Exposure Measures in Development of Planning-Level Zonal Crash Prediction Models. <i>Transportation Research Record</i> , 2012, 2280, 145-153.	1.9	23
59	Evaluating the effectiveness of a post-license education program for young novice drivers in Belgium. <i>Accident Analysis and Prevention</i> , 2014, 66, 62-71.	5.7	23
60	The effect of family climate on risky driving of young novices: The moderating role of attitude and locus of control. <i>Accident Analysis and Prevention</i> , 2014, 73, 53-64.	5.7	23
61	Crash Patterns at Signalized Intersections. <i>Transportation Research Record</i> , 2015, 2514, 105-116.	1.9	23
62	Serious Injuries: An Additional Indicator to Fatalities for Road Safety Benchmarking. <i>Traffic Injury Prevention</i> , 2015, 16, 246-253.	1.4	21
63	Sharing is (s)caring? Interactions between buses and bicyclists on bus lanes shared with bicyclists. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2017, 46, 301-315.	3.7	21
64	A hybrid system of neural networks and rough sets for road safety performance indicators. <i>Soft Computing</i> , 2010, 14, 1255-1263.	3.6	19
65	Can immersive virtual reality increase respondentsâ€™ certainty in discrete choice experiments? A comparison with traditional presentation formats. <i>Journal of Environmental Economics and Management</i> , 2021, 109, 102509.	4.7	19
66	Identifying Hazardous Road Locations: Hot Spots versus Hot Zones. <i>Lecture Notes in Computer Science</i> , 2009, , 288-300.	1.3	18
67	Can Automated Vehicles Improve Cyclist Safety in Urban Areas?. <i>Safety</i> , 2019, 5, 57.	1.7	18
68	Driversâ€™ estimation of their travelling speed: a study on an expressway and a local road. <i>International Journal of Injury Control and Safety Promotion</i> , 2019, 26, 216-224.	2.0	18
69	Assessing the impacts of enriched information on crash prediction performance. <i>Accident Analysis and Prevention</i> , 2019, 122, 162-171.	5.7	17
70	Studying the effects of an advanced driver-assistance system to improve safety of cyclists overtaking. <i>Accident Analysis and Prevention</i> , 2022, 174, 106763.	5.7	17
71	Effect evaluation of a road safety education program based on victim testimonials in high schools in Belgium. <i>Accident Analysis and Prevention</i> , 2016, 94, 18-27.	5.7	16
72	Relationship between road traffic features and accidents: An application of two-stage decision-making approach for transportation engineers. <i>Journal of Safety Research</i> , 2019, 69, 201-215.	3.6	16

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73	Observing the observation of (vulnerable) road user behaviour and traffic safety: A scoping review. <i>Accident Analysis and Prevention</i> , 2019, 123, 211-221.	5.7	16
74	Speed control with and without advanced warning sign on the field: An analysis of the effect on driving speed. <i>Safety Science</i> , 2016, 85, 23-32.	4.9	14
75	Driving simulator study on the influence of digital illuminated billboards near pedestrian crossings. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018, 59, 45-56.	3.7	14
76	Do detection-based warning strategies improve vehicle yielding behavior at uncontrolled midblock crosswalks?. <i>Accident Analysis and Prevention</i> , 2021, 157, 106166.	5.7	14
77	Improved traffic safety at work zones through animation-based variable message signs. <i>Accident Analysis and Prevention</i> , 2021, 159, 106284.	5.7	14
78	To brake or to accelerate? Safety effects of combined speed and red light cameras. <i>Journal of Safety Research</i> , 2014, 50, 59-65.	3.6	13
79	Safety effects of an extensive black spot treatment programme in Flanders-Belgium. <i>Accident Analysis and Prevention</i> , 2014, 66, 72-79.	5.7	13
80	Aiding medical professionals in fitness-to-drive screenings for elderly drivers: development of an office-based screening tool. <i>International Psychogeriatrics</i> , 2018, 30, 1211-1225.	1.0	13
81	Modeling the injury severity of small-displacement motorcycle crashes in Hanoi City, Vietnam. <i>Safety Science</i> , 2021, 142, 105371.	4.9	13
82	Public bus passenger safety evaluations in Ghana: A phenomenological constructivist exploration. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018, 58, 339-350.	3.7	12
83	The relation between driving errors and executive functioning in intellectually able young novice drivers with autism. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 63, 38-54.	3.7	12
84	Investigating the impact of a novel active gap metering signalization strategy on driver behavior at highway merging sections. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 78, 42-57.	3.7	11
85	Small-displacement motorcycle crashes and risky ridership in Vietnam: Findings from a focus group and in-depth interview study. <i>Safety Science</i> , 2022, 152, 105514.	4.9	11
86	Evaluating Trauma Management Performance in Europe: A Multiple-Layer Data Envelopment Analysis Model. <i>Transportation Research Record</i> , 2010, 2148, 69-75.	1.9	10
87	Official reporting and newspaper coverage of road crashes: A case study. <i>Safety Science</i> , 2010, 48, 1469-1476.	4.9	10
88	Measuring working memory load effects on electrophysiological markers of attention orienting during a simulated drive. <i>Ergonomics</i> , 2018, 61, 429-443.	2.1	10
89	A fuzzy decision-support system in road safety planning. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2017, 170, 305-317.	0.6	9
90	Evaluating Speed Enforcement Field Set-Ups Used by Regional Police in Belgium: An Analysis of Speed Outcome Indicators. <i>Safety</i> , 2017, 3, 1.	1.7	9

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91	The effect of a simulator based training on specific measures of driving ability in older drivers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 64, 38-46.	3.7	9
92	Testing the convergent- and predictive validity of a multi-dimensional belief-based scale for attitude towards personal safety on public bus/minibus for long-distance trips in Ghana: A SEM analysis. <i>Transport Policy</i> , 2020, 85, 67-79.	6.6	9
93	The relation between reinforcement sensitivity and self-reported, simulated and on-road driving in older drivers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018, 56, 466-476.	3.7	8
94	Evaluation of a Road Safety Education Program Based on Driving Under Influence and Traffic Risks for Higher Secondary School Students in Belgium. <i>Safety</i> , 2019, 5, 34.	1.7	8
95	Development of single-session driving simulator-based and computer-based training for at-risk older drivers. <i>Educational Gerontology</i> , 2019, 45, 283-296.	1.3	8
96	Role of Exposure in Analysis of Road Accidents: A Belgian Case Study. <i>Transportation Research Record</i> , 2005, 1908, 96-103.	1.9	8
97	Priority rule signalization under two visibility conditions: Driving simulator study on speed and lateral position. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2018, 58, 156-166.	3.7	7
98	Construction and validation of a public bus passenger safety scale. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 66, 47-62.	3.7	7
99	Bootstrapping DEA Scores for Road Safety Strategic Analysis in Brazil. <i>International Journal of Computational Intelligence Systems</i> , 2015, 8, 29.	2.7	6
100	Improved Traffic Flow Efficiency During Yellow Interval at Signalized Intersections Using a Smart Countdown System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 1959-1968.	8.0	6
101	Optical pavement treatments and their impact on speed and lateral position at transition zones: A driving simulator study. <i>Accident Analysis and Prevention</i> , 2021, 150, 105916.	5.7	6
102	EVALUATION OF ROAD SAFETY PERFORMANCE INDICATORS USING OWA OPERATORS. , 2008, , .		6
103	Driving ability in patients with dizziness: a systematic review. <i>European Archives of Oto-Rhino-Laryngology</i> , 2022, 279, 1813-1829.	1.6	4
104	Combining Driving Performance Information in an Index Score. <i>Transportation Research Record</i> , 2014, 2434, 44-51.	1.9	3
105	Intersection Control Type Effect on Automated Vehicle Operation. , 2019, , .		3
106	Assessing Fitness-To-Drive among Older Drivers: A Comparative Analysis of Potential Alternatives to on-Road Driving Test. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8886.	2.6	3
107	Effect of ADHD traits in young drivers on self-reported deviant driving behaviours: An exploratory study in the Arab gulf region. <i>Journal of Transport and Health</i> , 2020, 17, 100857.	2.2	3
108	Standard freeway merge designs support safer driver behaviour compared to taper designs: a driving simulator study. <i>Ergonomics</i> , 2020, 63, 407-420.	2.1	3

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109	Relating Reactive and Proactive Aggression to Trait Driving Anger in Young and Adult Males: A Pilot Study Using Explicit and Implicit Measures. Sustainability, 2021, 13, 1850.	3.2	3
110	Investigating the effect of marking and delineation treatments on driver behavior at highway exit gore areas. Accident Analysis and Prevention, 2021, 161, 106362.	5.7	3
111	Delay or travel time information? The impact of advanced traveler information systems on drivers' behavior before freeway work zones. Transportation Research Part F: Traffic Psychology and Behaviour, 2022, 87, 454-476.	3.7	3
112	â€œEverything Somewhereâ€ or â€œSomething Everywhereâ€: Examining the Implications of Automated Vehicles' Deployment Strategies. Sustainability, 2021, 13, 9750.	3.2	2
113	Acceptability of intelligent speed adaptation technology in developing Countries: The case of Ethiopian minibus taxi drivers. Case Studies on Transport Policy, 2021, 9, 1375-1385.	2.5	2
114	Is there a spillover effect of a right turn on red permission for bicyclists?. Transportation Research Part F: Traffic Psychology and Behaviour, 2016, 36, 35-45.	3.7	1
115	Assessing the Overall Driving Performance of Older Drivers. , 2014, , .		0
116	Assessing Road Safety Performance by Data Envelopment Analysis--The Case of Brazil. , 2014, , .		0
117	Chapter 5. Urban and Suburban Arterials. Transport and Sustainability, 2018, , 85-106.	0.4	0
118	Special issue on road safety and simulation 2017. Accident Analysis and Prevention, 2021, 161, 106384.	5.7	0
119	Investigating Individual Driver Performance: Applying DEA on Simulator Data. Advances in Intelligent Systems and Computing, 2014, , 623-635.	0.6	0