

Darcy M Bullock

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.

204
papers

2,394
citations

25
h-index

39
g-index

222
ext. papers

2,905
ext. citations

2.2
avg, IF

5.1
L-index

#	Paper	IF	Citations
204	Roundabout Performance Analysis Using Connected Vehicle Data. <i>Journal of Transportation Technologies</i> , 2022 , 12, 42-58	0.8	0
203	Image-Aided LiDAR Mapping Platform and Data Processing Strategy for Stockpile Volume Estimation. <i>Remote Sensing</i> , 2022 , 14, 231	5	2
202	Methodology for Monitoring Work Zones Traffic Operations Using Connected Vehicle Data. <i>Safety</i> , 2022 , 8, 41	1.7	1
201	Processing Strategy and Comparative Performance of Different Mobile LiDAR System Grades for Bridge Monitoring: A Case Study. <i>Sensors</i> , 2021 , 21,	3.8	2
200	Leveraging LiDAR Intensity to Evaluate Roadway Pavement Markings. <i>Future Transportation</i> , 2021 , 1, 720-736		0
199	Agile Work Zone Management Based on Connected Vehicle Data 2021 ,		1
198	Using Connected Vehicle Data to Evaluate Traffic Signal Performance and Driver Behavior after Changing Left-turns Phasing 2021 ,		1
197	Methodology for Applying Connected Vehicle Data to Evaluate Impact of Interstate Construction Work Zone Diversions 2021 ,		1
196	A Proactive Approach to Evaluating Intersection Safety Using Hard-Braking Data. <i>Journal of Big Data Analytics in Transportation</i> , 2021 , 3, 81-94	1.7	4
195	Comparative Analysis of Different Mobile LiDAR Mapping Systems for Ditch Line Characterization. <i>Remote Sensing</i> , 2021 , 13, 2485	5	6
194	Transfer Learning for LiDAR-Based Lane Marking Detection and Intensity Profile Generation. <i>Geomatics</i> , 2021 , 1, 287-309		2
193	Correlating Hard-Braking Activity with Crash Occurrences on Interstate Construction Projects in Indiana. <i>Journal of Big Data Analytics in Transportation</i> , 2021 , 3, 27-41	1.7	7
192	Estimation of Connected Vehicle Penetration on US Roads in Indiana, Ohio, and Pennsylvania. <i>Journal of Transportation Technologies</i> , 2021 , 11, 597-610	0.8	1
191	Analysis of Electric and Hybrid Vehicle Usage in Proximity to Charging Infrastructure in Indiana. <i>Journal of Transportation Technologies</i> , 2021 , 11, 577-596	0.8	0
190	Evaluation of the Impact of Queue Trucks with Navigation Alerts Using Connected Vehicle Data. <i>Journal of Transportation Technologies</i> , 2021 , 11, 561-576	0.8	1
189	Diverging Diamond Interchange Performance Measures Using Connected Vehicle Data. <i>Journal of Transportation Technologies</i> , 2021 , 11, 628-643	0.8	2
188	Longitudinal Performance Assessment of Traffic Signal System Impacted by Long-Term Interstate Construction Diversion Using Connected Vehicle Data. <i>Journal of Transportation Technologies</i> , 2021 , 11, 644-659	0.8	3

187	Leveraging Telematics for Winter Operations Performance Measures and Tactical Adjustment. <i>Journal of Transportation Technologies</i> , 2021 , 11, 611-627	0.8	1
186	Prioritizing Roadway Pavement Marking Maintenance Using Lane Keep Assist Sensor Data. <i>Sensors</i> , 2021 , 21,	3.8	2
185	Evaluation of the Impact of Presence Lighting and Digital Speed Limit Trailers on Interstate Speeds in Indiana Work Zones. <i>Journal of Transportation Technologies</i> , 2021 , 11, 157-167	0.8	2
184	Using Anonymous Connected Vehicle Data to Evaluate Impact of Speed Feedback Displays, Speed Limit Signs and Roadway Features on Interstate Work Zones Speeds. <i>Journal of Transportation Technologies</i> , 2021 , 11, 545-560	0.8	1
183	Mapping of bus travel time to traffic stream travel time using econometric modeling. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , 2020 , 1-17	3.2	1
182	Leveraging Connected Vehicles to Provide Enhanced Roadway Condition Information. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020 , 146, 04020073	1.5	3
181	A Mobile LiDAR for Monitoring Mechanically Stabilized Earth Walls with Textured Precast Concrete Panels. <i>Remote Sensing</i> , 2020 , 12, 306	5	11
180	Using Stochastic Variation of Cyclic Green Distributions to Populate SAE J2735 Message Confidence Values along a Signalized Corridor. <i>Transportation Research Record</i> , 2020 , 2674, 426-437	1.7	
179	Using Connected Vehicle Data to Reassess Dilemma Zone Performance of Heavy Vehicles. <i>Transportation Research Record</i> , 2020 , 2674, 305-314	1.7	
178	Detection of Conflicts Between ADS-B-Equipped Aircraft and Unmanned Aerial Systems. <i>Transportation Research Record</i> , 2020 , 2674, 197-204	1.7	2
177	Intensity Thresholding and Deep Learning Based Lane Marking Extraction and Lane Width Estimation from Mobile Light Detection and Ranging (LiDAR) Point Clouds. <i>Remote Sensing</i> , 2020 , 12, 1379	5	18
176	Optimization of Traffic Signal Offsets with High Resolution Event Data. <i>Journal of Transportation Engineering Part A: Systems</i> , 2020 , 146, 04019076	1.5	6
175	Mobile LiDAR for Scalable Monitoring of Mechanically Stabilized Earth Walls with Smooth Panels. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4480	2.6	2
174	Pothole Mapping and Patching Quantity Estimates using LiDAR-Based Mobile Mapping Systems. <i>Transportation Research Record</i> , 2020 , 2674, 124-134	1.7	7
173	Corridor Level Mobility Analysis Using GPS Data. <i>International Journal of Intelligent Transportation Systems Research</i> , 2020 , 18, 204-218	1.4	1
172	Public Safety Implementation of Unmanned Aerial Systems for Photogrammetric Mapping of Crash Scenes. <i>Transportation Research Record</i> , 2019 , 2673, 567-574	1.7	3
171	Technology Assessment to Improve Operations Counts at Non-Towered Airports. <i>Transportation Research Record</i> , 2019 , 2673, 44-50	1.7	3
170	Evaluating the Accuracy of Mobile LiDAR for Mapping Airfield Infrastructure. <i>Transportation Research Record</i> , 2019 , 2673, 117-124	1.7	4

169	Application of High-Resolution Terrestrial Laser Scanning to Monitor the Performance of Mechanically Stabilized Earth Walls with Precast Concrete Panels. <i>Journal of Performance of Constructed Facilities</i> , 2019 , 33, 04019054	2	7
168	Application of High-Resolution Trip Trace Stitching to Evaluate Traffic Signal System Changes. <i>Transportation Research Record</i> , 2019 , 2673, 188-201	1.7	5
167	Impact of Weather on Shared Electric Scooter Utilization 2019 ,		2
166	Estimation of Aircraft Operations at Airports Using Mode-C Signal Strength Information. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 677-686	6.1	6
165	Application of LiDAR and Connected Vehicle Data to Evaluate the Impact of Work Zone Geometry on Freeway Traffic Operations. <i>Transportation Research Record</i> , 2018 , 2672, 1-13	1.7	8
164	Data-Driven Ranking of Coordinated Traffic Signal Systems for Maintenance and Retiming. <i>Transportation Research Record</i> , 2018 , 2672, 167-178	1.7	14
163	Statistical modelling of runway incursion occurrences in the United States. <i>Journal of Air Transport Management</i> , 2017 , 65, 54-62	5.1	6
162	Applying Lean-Engineering Principles to Agency Business Processes to Improve Collections Associated with Infrastructure Damaged by Motor Vehicle Crashes. <i>Transportation Research Record</i> , 2017 , 2670, 42-49	1.7	
161	Visualizations of Travel Time Performance Based on Vehicle Reidentification Data. <i>Transportation Research Record</i> , 2017 , 2646, 84-92	1.7	2
160	Investigation of Self-Organizing Traffic Signal Control with Graphical Signal Performance Measures. <i>Transportation Research Record</i> , 2017 , 2620, 69-82	1.7	2
159	Strategic Methods for Modernizing Traffic Signal Maintenance Management and Quantifying the Impact of Maintenance Activities. <i>Journal of Infrastructure Systems</i> , 2017 , 23, 05017004	2.9	7
158	Time-Lapse Photography of Runway Reconstruction for Education and Training. <i>Transportation Research Record</i> , 2017 , 2603, 39-49	1.7	
157	Detector-Free Optimization of Traffic Signal Offsets with Connected Vehicle Data. <i>Transportation Research Record</i> , 2017 , 2620, 54-68	1.7	25
156	Outcome Assessment of Peer-to-Peer Adaptive Control Adjacent to a National Park. <i>Transportation Research Record</i> , 2017 , 2620, 43-53	1.7	3
155	Scalable Dashboard for Identifying Split Failures and Heuristic for Reallocating Split Times. <i>Transportation Research Record</i> , 2017 , 2620, 83-95	1.7	3
154	Implementation of a real-time data driven system to provide queue alerts to stakeholders 2017 ,		3
153	Accuracy Assessment of Aircraft Transponder-Based Devices for Measuring Airport Operations. <i>Transportation Research Record</i> , 2017 , 2626, 9-17	1.7	4
152	Variable Speed Limit Study Upstream of an Indiana Work Zone with Vehicle Matching. <i>Transportation Research Record</i> , 2016 , 2555, 53-64	1.7	4

151	Assessing Longitudinal Arterial Performance and Traffic Signal Retiming Outcomes. <i>Transportation Research Record</i> , 2016 , 2558, 66-77	1.7	6
150	Use of High-Resolution Signal Controller Data to Identify Red Light Running. <i>Transportation Research Record</i> , 2016 , 2558, 41-53	1.7	9
149	Detector-Free Signal Offset Optimization with Limited Connected Vehicle Market Penetration: Proof-of-Concept Study. <i>Transportation Research Record</i> , 2016 , 2558, 54-65	1.7	18
148	Virtual Detection at Intersections using Connected Vehicle Trajectory Data 2016 ,		7
147	Investigation of the Use of Bluetooth Sensors for Travel Time Studies under Indian Conditions. <i>Transportation Research Procedia</i> , 2016 , 17, 213-222	2.4	16
146	Speed variation during peak and off-peak hours on urban arterials in Shanghai. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 67, 84-94	8.4	26
145	Leveraging Aircraft Avionics for Fleet and Airport Management. <i>Transportation Research Record</i> , 2016 , 2569, 32-41	1.7	5
144	2016 ,		4
143	Cycle-Length Strategies for a Diverging Diamond Interchange in a Coordinated Arterial. <i>Journal of Transportation Engineering</i> , 2016 , 142, 04016067		4
142	Sequence Optimization at Signalized Diamond Interchanges Using High-Resolution Event-Based Data. <i>Transportation Research Record</i> , 2015 , 2487, 15-30	1.7	1
141	Performance Ranking of Arterial Corridors Using Travel Time and Travel Time Reliability Metrics. <i>Transportation Research Record</i> , 2015 , 2487, 44-54	1.7	12
140	Shock Wave Boundary Identification Using Cloud-Based Probe Data. <i>Transportation Research Record</i> , 2015 , 2526, 51-60	1.7	9
139	Opportunities for Enhancing Construction Education and Student Internships with Multimedia Tools. <i>Transportation Research Record</i> , 2015 , 2480, 20-29	1.7	1
138	Assessment of Speed Limit Locations Using Crowdsourced Probe Vehicle Data. <i>Transportation Research Record</i> , 2015 , 2484, 10-22	1.7	2
137	Integrating Outcome Oriented Performance Measures into Traffic Signal Operations Business Processes 2015 ,		1
136	Use of Maximum Vehicle Delay to Characterize Signalized Intersection Performance. <i>Transportation Research Record</i> , 2015 , 2488, 41-52	1.7	5
135	Use of Both Travel Time and Travel Time Reliability Measures to Quantify Benefits of Signal Timing Maintenance and Optimization. <i>Transportation Research Record</i> , 2015 , 2487, 55-68	1.7	6
134	Performance Measures for Optimizing Diverging Interchanges and Outcome Assessment with Drone Video. <i>Transportation Research Record</i> , 2015 , 2487, 31-43	1.7	7

133	Estimating Required Probe Vehicle Re-identification Requirements for Characterizing Link Travel Times. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2014 , 6, 50-58	2.6	8
132	Spatially Referenced Probe Data Performance Measures for Infrastructure Investment Decision Makers. <i>Transportation Research Record</i> , 2014 , 2420, 33-44	1.7	13
131	Evolution of Data Creation, Management, Publication, and Curation in the Research Process. <i>Transportation Research Record</i> , 2014 , 2414, 9-19	1.7	2
130	Graphical Performance Measures for Practitioners to Triage Split Failure Trouble Calls. <i>Transportation Research Record</i> , 2014 , 2439, 27-40	1.7	13
129	Design Guidelines and Conditions that Warrant Deployment of Fully Actuated Coordination. <i>Transportation Research Record</i> , 2014 , 2439, 1-11	1.7	7
128	High-Resolution Event-Based Data at Diamond Interchanges: Performance Measures and Optimization of Ring Displacement. <i>Transportation Research Record</i> , 2014 , 2439, 12-26	1.7	4
127	Improving Intersection Behavior through Delay-Based Left-Turn Phase Initiation. <i>Transportation Research Record</i> , 2014 , 2439, 41-52	1.7	
126	Performance Measures for Traffic Signal Systems: An Outcome-Oriented Approach 2014 ,		44
125	A hazard-based analysis of airport security transit times. <i>Journal of Air Transport Management</i> , 2013 , 32, 32-38	5.1	16
124	Leveraging Probe Data to Assess Security Checkpoint Wait Times. <i>Transportation Research Record</i> , 2013 , 2325, 63-75	1.7	1
123	Longitudinal Performance Measures for Assessing Agencywide Signal Management Objectives. <i>Transportation Research Record</i> , 2013 , 2355, 20-30	1.7	3
122	Probe VehicleBased Statewide Mobility Performance Measures for Decision Makers. <i>Transportation Research Record</i> , 2013 , 2338, 78-90	1.7	15
121	Revisiting the Cycle Length: Lost Time Question with Critical Lane Analysis. <i>Transportation Research Record</i> , 2013 , 2355, 1-9	1.7	2
120	Roundabout Critical Headway Measurement Based on High-Resolution Event-Based Data from Wireless Magnetometers. <i>Transportation Research Record</i> , 2013 , 2389, 51-64	1.7	5
119	Performance Characterization of Arterial Traffic Flow with Probe Vehicle Data. <i>Transportation Research Record</i> , 2013 , 2380, 10-21	1.7	24
118	2012 Indiana Mobility Report: Full Version 2013 ,		6
117	Engaging New Partners in Transportation Research: Integrating the Publishing, Archiving, and Indexing of Technical Literature into the Research Process. <i>Transportation Research Record</i> , 2012 , 2291, 111-123	1.7	2
116	Kullback-Leibler comparison framework for the evaluation of travel time distribution estimates 2012 ,		3

115	Maximum-Likelihood Acceleration Estimation From Existing Roadway Vehicle Detectors. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 759-769	6.1	0
114	Integrating Adaptive and Traffic Responsive Algorithms. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 48, 3451-3460		1
113	Probe Data Sampling Guidelines for Characterizing Arterial Travel Time. <i>Transportation Research Record</i> , 2012 , 2315, 173-181	1.7	12
112	Calibration of Platoon Dispersion Model with High-Resolution Signal Event Data. <i>Transportation Research Record</i> , 2012 , 2311, 16-28	1.7	17
111	Performance Measures for Adaptive Signal Control: Case Study of System-in-the-Loop Simulation. <i>Transportation Research Record</i> , 2012 , 2311, 1-15	1.7	24
110	Defining Design Space for Parameters of Traffic Signal Timing: Empirical Approach. <i>Transportation Research Record</i> , 2012 , 2311, 85-98	1.7	1
109	Evaluation of Thermal Image Video Sensors for Stop Bar Detection at Signalized Intersections. <i>Transportation Research Record</i> , 2012 , 2308, 184-198	1.7	2
108	Summary of Developments in the Civil Engineering Capstone Course at Purdue University. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2012 , 138, 95-98	0.7	7
107	Probe vehicle data for characterizing road conditions associated with inclement weather to improve road maintenance decisions 2012 ,		1
106	Analysis of Freeway Travel Time Variability Using Bluetooth Detection. <i>Journal of Transportation Engineering</i> , 2011 , 137, 697-704		64
105	Sensing and Signal Processing for Vehicle Reidentification and Travel Time Estimation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011 , 12, 119-131	6.1	29
104	Computational Efficiency of Alternative Algorithms for Arterial Offset Optimization. <i>Transportation Research Record</i> , 2011 , 2259, 37-47	1.7	25
103	Analysis of Peer Data on Intersections for Decisions about Coordination of Arterial Traffic Signal. <i>Transportation Research Record</i> , 2011 , 2259, 23-36	1.7	1
102	Comparison of Alternative Real-Time Performance Measures for Measuring Signal Phase Utilization and Identifying Oversaturation. <i>Transportation Research Record</i> , 2011 , 2259, 123-131	1.7	9
101	Improving Safety and Mobility at High-Speed Intersections with Innovations in Sensor Technology. <i>Transportation Research Record</i> , 2011 , 2259, 253-263	1.7	11
100	Evaluation of Spatial and Temporal Speed Limit Compliance in Highway Work Zones. <i>Transportation Research Record</i> , 2011 , 2258, 1-15	1.7	12
99	Reliability, Flexibility, and Environmental Impact of Alternative Objective Functions for Arterial Offset Optimization. <i>Transportation Research Record</i> , 2011 , 2259, 8-22	1.7	20
98	Visual Education Tools to Illustrate Coordinated System Operation. <i>Transportation Research Record</i> , 2011 , 2259, 59-72	1.7	15

97	Estimating Route Choice and Travel Time Reliability with Field Observations of Bluetooth Probe Vehicles. <i>Transportation Research Record</i> , 2011 , 2256, 43-50	1.7	48
96	A Recursive Multiscale Correlation-Averaging Algorithm for an Automated Distributed Road-Condition-Monitoring System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011 , 12, 795-808	6.1	22
95	Estimating dilemma zone hazard function at high speed isolated intersection. <i>Transportation Research Part C: Emerging Technologies</i> , 2011 , 19, 400-412	8.4	51
94	Acceleration Estimation and Signature Matching Travel Time Estimation Enhancement for Standard Electromagnetic Vehicle Detectors. <i>Transportation Research Record</i> , 2011 , 2243, 27-37	1.7	2
93	Influence of Vertical Sensor Placement on Data Collection Efficiency from Bluetooth MAC Address Collection Devices. <i>Journal of Transportation Engineering</i> , 2010 , 136, 1104-1109		49
92	Automated Measurement of Wait Times at Airport Security: Deployment at Indianapolis International Airport, Indiana. <i>Transportation Research Record</i> , 2010 , 2177, 60-68	1.7	36
91	Crosstalk Detection in Signalized-Intersection Loop Detectors. <i>Transportation Research Record</i> , 2010 , 2192, 50-63	1.7	2
90	Non-linear compensation of vehicle signatures captured from electromagnetic sensors with application to vehicle re-identification 2010 ,		3
89	Arterial Performance Measures with Media Access Control Readers: Portland, Oregon, Pilot Study. <i>Transportation Research Record</i> , 2010 , 2192, 185-193	1.7	42
88	Track Clearance Performance Measures for Railroad-Preempted Intersections. <i>Transportation Research Record</i> , 2010 , 2192, 64-76	1.7	4
87	Decision Tree Model to Prioritize Signalized Intersections near Highway/Railroad Crossings for Railroad Interconnect. <i>Transportation Research Record</i> , 2010 , 2192, 116-126	1.7	
86	Evaluation of Arterial Signal Coordination: Methodologies for Visualizing High-Resolution Event Data and Measuring Travel Time. <i>Transportation Research Record</i> , 2010 , 2192, 37-49	1.7	73
85	Real-Time Measurement of Travel Time Delay in Work Zones and Evaluation Metrics Using Bluetooth Probe Tracking. <i>Transportation Research Record</i> , 2010 , 2169, 40-53	1.7	60
84	Operational Evaluation of Wireless Magnetometer Vehicle Detectors at Signalized Intersection. <i>Transportation Research Record</i> , 2010 , 2192, 11-23	1.7	15
83	Outcome-Oriented Performance Measures for Management of Signalized Arterial Capacity. <i>Transportation Research Record</i> , 2010 , 2192, 24-36	1.7	15
82	Recommended Tolerances for Magnetometer Orientation and Field Calibration Procedure. <i>Transportation Research Record</i> , 2009 , 2128, 66-75	1.7	3
81	Three-Dimensional Mapping of Inductive Loop Detector Sensitivity with Field Measurement. <i>Transportation Research Record</i> , 2009 , 2128, 35-47	1.7	12
80	Detecting Differential Drift in Weigh-in-Motion Wheel Track Sensors. <i>Transportation Research Record</i> , 2009 , 2121, 135-144	1.7	4

79	Right Turns on Green and Pedestrian Level of Service: Statistical Assessment. <i>Journal of Transportation Engineering</i> , 2009 , 135, 153-159		33
78	Cycle-Length Performance Measures: Revisiting and Extending Fundamentals. <i>Transportation Research Record</i> , 2009 , 2128, 48-57	1.7	10
77	Maximum-likelihood speed estimation using vehicle-induced magnetic signatures 2009 ,		3
76	A signal processing framework for vehicle re-identification and travel time estimation 2009 ,		4
75	A recursive multi-scale correlation-averaging algorithm for synchronization and fusion of independent pavement roughness measurements 2009 ,		1
74	Performance Measures for Railroad-Preempted Intersections. <i>Transportation Research Record</i> , 2009 , 2128, 20-34	1.7	4
73	Proposed Concept for Specifying Vehicle Detection Performance. <i>Transportation Research Record</i> , 2009 , 2128, 161-172	1.7	2
72	Integration of Real-Time Pedestrian Performance Measures into Existing Infrastructure of Traffic Signal System. <i>Transportation Research Record</i> , 2008 , 2080, 37-47	1.7	12
71	Quantitative Evaluation of Fully Actuated versus Nonactuated Coordinated Phases. <i>Transportation Research Record</i> , 2008 , 2080, 8-21	1.7	23
70	Pilot Study on Real-Time Calculation of Arrival Type for Assessment of Arterial Performance. <i>Journal of Transportation Engineering</i> , 2007 , 133, 415-422		19
69	Modeling Traffic Signal Operations with Precedence Graphs. <i>Transportation Research Record</i> , 2007 , 2035, 10-18	1.7	12
68	Event-Based Data Collection for Generating Actuated Controller Performance Measures. <i>Transportation Research Record</i> , 2007 , 2035, 97-106	1.7	82
67	Consistency of Video Detection Activation and Deactivation Times between Day and Night Periods. <i>Journal of Transportation Engineering</i> , 2007 , 133, 505-512		10
66	Assessing the Impact of Turning Vehicles on Pedestrian Level of Service at Signalized Intersections: A New Perspective. <i>Transportation Research Record</i> , 2007 , 2027, 27-36	1.7	15
65	Implementation of Lane-by-Lane Detection at Actuated Controlled Intersections. <i>Transportation Research Record</i> , 2007 , 2035, 81-87	1.7	7
64	Recasting Dilemma Zone Design as a Marginal Cost-Benefit Problem. <i>Transportation Research Record</i> , 2007 , 2035, 88-96	1.7	29
63	Data-Driven Algorithms for Real-Time Adaptive Tuning of Offsets in Coordinated Traffic Signal Systems. <i>Transportation Research Record</i> , 2007 , 2035, 1-9	1.7	29
62	Input-Output and Hybrid Techniques for Real-Time Prediction of Delay and Maximum Queue Length at Signalized Intersections. <i>Transportation Research Record</i> , 2007 , 2035, 69-80	1.7	98

61	Using GPS to Measure the Impact of Construction Activities on Rural Interstates. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 508-515	4.2	6
60	Automatic Speed Calibration Methodology for Traffic Monitoring Sites. <i>Journal of Transportation Engineering</i> , 2006 , 132, 30-39		2
59	Detection of Inclement Weather Conditions at a Signalized Intersection using a Video Image Processing Algorithm 2006 ,		1
58	Limitations of Simultaneous Gap-Out Logic. <i>Transportation Research Record</i> , 2006 , 1978, 42-48	1.7	2
57	Transition Methods in Traffic Signal Control. <i>Transportation Research Record</i> , 2006 , 1978, 130-140	1.7	16
56	Design Considerations for Detecting Bicycles with Inductive Loop Detectors. <i>Transportation Research Record</i> , 2006 , 1978, 1-7	1.7	4
55	Evaluation of Flow-Based Traffic Signal Control Using Advanced Detection Concepts. <i>Transportation Research Record</i> , 2006 , 1978, 25-33	1.7	1
54	Traffic Signal Phase Truncation in Event of Traffic Flow Restriction. <i>Transportation Research Record</i> , 2006 , 1978, 87-94	1.7	
53	Evaluation of AASHTO SiteManager Performance on High-Latency Satellite Communication Links. <i>Transportation Research Record</i> , 2005 , 1935, 17-27	1.7	
52	Evaluation of Lane-by-Lane Vehicle Detection for Actuated Controllers Serving Multilane Approaches. <i>Transportation Research Record</i> , 2005 , 1925, 123-133	1.7	5
51	Estimating Intersection Control Delay Using Large Data Sets of Travel Time from a Global Positioning System. <i>Transportation Research Record</i> , 2005 , 1917, 18-27	1.7	2
50	Evaluation of the Accuracy of Stop Bar Video Vehicle Detection at Signalized Intersections. <i>Transportation Research Record</i> , 2005 , 1925, 134-145	1.7	6
49	Resonant Cycles in Traffic Signal Control. <i>Transportation Research Record</i> , 2005 , 1925, 215-226	1.7	4
48	Hardware-in-the-loop simulation. <i>Transportation Research Part C: Emerging Technologies</i> , 2004 , 12, 73-89.4		59
47	On-Line Measure of Shockwaves for ITS Applications. <i>Journal of Transportation Engineering</i> , 2003 , 129, 1-6		8
46	ACS-Lite Algorithmic Architecture: Applying Adaptive Control System Technology to Closed-Loop Traffic Signal Control Systems. <i>Transportation Research Record</i> , 2003 , 1856, 175-184	1.7	60
45	Development of Transportation Engineering Research, Education, and Practice in a Changing Civil Engineering World. <i>Journal of Transportation Engineering</i> , 2002 , 128, 301-313		15
44	Comparison of Observed Retroreflectivity Values with Proposed FHWA Minimums. <i>Transportation Research Record</i> , 2002 , 1794, 29-37	1.7	1

43	Analysis of Arrival Type Estimation Procedures. <i>Transportation Research Record</i> , 2001 , 1776, 123-127	1.7	5
42	Real-Time Offset Transitioning Algorithm for Coordinating Traffic Signals. <i>Transportation Research Record</i> , 2001 , 1748, 26-39	1.7	44
41	Implementing Actuated Control of Diamond Interchanges. <i>Journal of Transportation Engineering</i> , 2000 , 126, 390-395		15
40	Impact of Emergency Vehicle Preemption on Signalized Corridor Operation: An Evaluation. <i>Transportation Research Record</i> , 2000 , 1727, 1-11	1.7	45
39	Evaluation of Diamond Interchange Signal Controller Settings by Using Hardware-in-the-Loop Simulation. <i>Transportation Research Record</i> , 1999 , 1683, 59-66	1.7	17
38	Travel Time Information Using Global Positioning System and Dynamic Segmentation Techniques. <i>Transportation Research Record</i> , 1999 , 1660, 48-57	1.7	13
37	Measuring Control Delay at Signalized Intersections. <i>Journal of Transportation Engineering</i> , 1999 , 125, 271-280		54
36	Deployment of Fiber-Optic Lane Use Indication Signs Using a Distributed Control Architecture. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1999 , 14, 231-238	8.4	2
35	Dynamic Offset Tuning Procedure Using Travel Time Data. <i>Transportation Research Record</i> , 1999 , 1683, 84-94	1.7	15
34	Innovative application of directional boring procedures for replacing failed inductive loop detectors. <i>Automation in Construction</i> , 1998 , 8, 143-148	9.6	1
33	Travel time studies with global positioning and geographic information systems: an integrated methodology. <i>Transportation Research Part C: Emerging Technologies</i> , 1998 , 6, 101-127	8.4	148
32	A Real-Time Simulation Environment for Evaluating Traffic Signal Systems. <i>Transportation Research Record</i> , 1998 , 1634, 130-135	1.7	29
31	Architecture of a Congestion Management System for Controlled-Access Facilities. <i>Transportation Research Record</i> , 1996 , 1551, 105-113	1.7	3
30	Implementation Vision for Distributed Control of Traffic Signal Subsystems. <i>Transportation Research Record</i> , 1996 , 1554, 43-47	1.7	1
29	Geographic Database for Traffic Operations Data. <i>Journal of Transportation Engineering</i> , 1996 , 122, 226-234		3
28	Analysis of feedforward-backpropagation neural networks used in vehicle detection. <i>Transportation Research Part C: Emerging Technologies</i> , 1995 , 3, 161-174	8.4	16
27	Multimedia Data Model for Video-Detection Research. <i>Journal of Transportation Engineering</i> , 1995 , 121, 385-390		3
26	. <i>IEEE Transactions on Control Systems Technology</i> , 1994 , 2, 255-264	4.8	13

25	A neural network for image-based vehicle detection. <i>Transportation Research Part C: Emerging Technologies</i> , 1993 , 1, 235-247	8.4	22
24	Object-Oriented Programming in Robotics Research for Excavation. <i>Journal of Computing in Civil Engineering</i> , 1992 , 6, 370-385	5	5
23	Advanced Software Design and Standards for Traffic Signal Control. <i>Journal of Transportation Engineering</i> , 1992 , 118, 430-438		5
22	A Laboratory Study of Force-Cognitive Excavation 1989 ,		6
21	Evaluation of Lane-by-Lane Vehicle Detection for Actuated Controllers Serving Multilane Approaches		13
20	Evaluation of the Accuracy of Stop Bar Video Vehicle Detection at Signalized Intersections		12
19	Resonant Cycles in Traffic Signal Control		3
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17	Evaluation of Flow-Based Traffic Signal Control Using Advanced Detection Concepts		5
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10	Real-Time Arterial Traffic Signal Performance Measures		10
9	2011 Indiana Interstate Mobility Report Full Version		7
8	2013-2014 Indiana Mobility Report: Full Version		3

7	2015 Indiana Mobility Report and Performance Measure Dashboards		8
6	Rumble Stripes and Pavement Marking Delineation		2
5	Indiana Traffic Signal Hi Resolution Data Logger Enumerations		3
4	Characterizing Interstate Crash Rates Based on Traffic Congestion Using Probe Vehicle Data		5
3	Using Crowdsourced Vehicle Braking Data to Identify Roadway Hazards		3
2	Pavement Distress and Debris Detection using a Mobile Mapping System with 2D Profiler LiDAR. <i>Transportation Research Record,036119812110025</i>	1.7	2
1	Deriving Operational Traffic Signal Performance Measures from Vehicle Trajectory Data. <i>Transportation Research Record,036119812110067</i>	1.7	8