

# Christopher M Day

## List of Publications by Year in descending order

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77  
papers

1,187  
citations

430874  
18  
h-index

501196  
28  
g-index

95  
all docs

95  
docs citations

95  
times ranked

616  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of COVID-19 on Traffic Signal Systems: Survey of Agency Interventions and Observed Changes in Pedestrian Activity. Transportation Research Record, 2023, 2677, 192-203.	1.9	2
2	Leveraging data-driven traffic management in smart cities: Datasets for highway traffic monitoring. , 2022, , 583-607.		4
3	Impact of Turning Lane Storage Length and Turning Proportions on Throughput at Oversaturated Signalized Intersections. Transportation Research Record, 2021, 2675, 305-319.	1.9	0
4	Optimization of Traffic Signal Offsets with High Resolution Event Data. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	1.4	11
5	Before-After Study of Signal Timing Improvement Using Crowd-Sourced Data: A Case Study of Omaha. , 2020, , .		0
6	Impact of Detector Configuration on Performance Measurement and Signal Operations. Transportation Research Record, 2020, 2674, 300-313.	1.9	13
7	Impact of Phase Sequence on Cycle Length Resonance. Transportation Research Record, 2019, 2673, 398-408.	1.9	3
8	Trajectory-Based Performance Measures for Interrupted-Flow Facilities. Transportation Research Procedia, 2019, 41, 745-749.	1.5	2
9	Leveraging Sensor-Based Vehicle Position and Speed Information in Traffic Signal Control with Existing Infrastructure. , 2019, , .		4
10	Platoon Dispersion and Saturation Flow Rates in Cellular Automata Models of Signal-Controlled Roadway Traffic. , 2018, , .		0
11	Evaluating the Performance of Coordinated Signal Timing: Comparison of Common Data Types with Automated Vehicle Location Data. Transportation Research Record, 2018, 2672, 128-142.	1.9	17
12	Data-Driven Ranking of Coordinated Traffic Signal Systems for Maintenance and Retiming. Transportation Research Record, 2018, 2672, 167-178.	1.9	22
13	Ranking statistically similar highway travel corridors using speed datasets within the USA. Infrastructure Asset Management, 2018, 5, 96-104.	1.6	2
14	Visualizations of Travel Time Performance Based on Vehicle Reidentification Data. Transportation Research Record, 2017, 2646, 84-92.	1.9	3
15	Investigation of Self-Organizing Traffic Signal Control with Graphical Signal Performance Measures. Transportation Research Record, 2017, 2620, 69-82.	1.9	7
16	Detector-Free Optimization of Traffic Signal Offsets with Connected Vehicle Data. Transportation Research Record, 2017, 2620, 54-68.	1.9	45
17	Outcome Assessment of Peer-to-Peer Adaptive Control Adjacent to a National Park. Transportation Research Record, 2017, 2620, 43-53.	1.9	5
18	Scalable Dashboard for Identifying Split Failures and Heuristic for Reallocating Split Times. Transportation Research Record, 2017, 2620, 83-95.	1.9	9

#	ARTICLE	IF	CITATIONS
19	Assessing Longitudinal Arterial Performance and Traffic Signal Retiming Outcomes. Transportation Research Record, 2016, 2558, 66-77.	1.9	8
20	Use of High-Resolution Signal Controller Data to Identify Red Light Running. Transportation Research Record, 2016, 2558, 41-53.	1.9	10
21	Detector-Free Signal Offset Optimization with Limited Connected Vehicle Market Penetration: Proof-of-Concept Study. Transportation Research Record, 2016, 2558, 54-65.	1.9	28
22	Virtual Detection at Intersections using Connected Vehicle Trajectory Data. , 2016, , .		14
23	Cycle-Length Strategies for a Diverging Diamond Interchange in a Coordinated Arterial. Journal of Transportation Engineering, 2016, 142, .	0.9	5
24	Sequence Optimization at Signalized Diamond Interchanges Using High-Resolution Event-Based Data. Transportation Research Record, 2015, 2487, 15-30.	1.9	3
25	Performance Ranking of Arterial Corridors Using Travel Time and Travel Time Reliability Metrics. Transportation Research Record, 2015, 2487, 44-54.	1.9	20
26	Shock Wave Boundary Identification Using Cloud-Based Probe Data. Transportation Research Record, 2015, 2526, 51-60.	1.9	15
27	Integrating Outcome Oriented Performance Measures into Traffic Signal Operations Business Processes. , 2015, , .		1
28	Use of Maximum Vehicle Delay to Characterize Signalized Intersection Performance. Transportation Research Record, 2015, 2488, 41-52.	1.9	5
29	Use of Both Travel Time and Travel Time Reliability Measures to Quantify Benefits of Signal Timing Maintenance and Optimization. Transportation Research Record, 2015, 2487, 55-68.	1.9	7
30	Performance Measures for Optimizing Diverging Interchanges and Outcome Assessment with Drone Video. Transportation Research Record, 2015, 2487, 31-43.	1.9	11
31	Spatially Referenced Probe Data Performance Measures for Infrastructure Investment Decision Makers. Transportation Research Record, 2014, 2420, 33-44.	1.9	19
32	Graphical Performance Measures for Practitioners to Triage Split Failure Trouble Calls. Transportation Research Record, 2014, 2439, 27-40.	1.9	24
33	Design Guidelines and Conditions that Warrant Deployment of Fully Actuated Coordination. Transportation Research Record, 2014, 2439, 1-11.	1.9	10
34	High-Resolution Event-Based Data at Diamond Interchanges. Transportation Research Record, 2014, 2439, 12-26.	1.9	5
35	Improving Intersection Behavior through Delay-Based Left-Turn Phase Initiation. Transportation Research Record, 2014, 2439, 41-52.	1.9	0
36	Longitudinal Performance Measures for Assessing Agencywide Signal Management Objectives. Transportation Research Record, 2013, 2355, 20-30.	1.9	5

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37	Revisiting the Cycle Length. Transportation Research Record, 2013, 2355, 1-9.	1.9	6
38	Roundabout Critical Headway Measurement Based on High-Resolution Event-Based Data from Wireless Magnetometers. Transportation Research Record, 2013, 2389, 51-64.	1.9	5
39	Performance Characterization of Arterial Traffic Flow with Probe Vehicle Data. Transportation Research Record, 2013, 2380, 10-21.	1.9	29
40	Probe vehicle data for characterizing road conditions associated with inclement weather to improve road maintenance decisions. , 2012, , .		4
41	Integrating Adaptive and Traffic Responsive Algorithms. Procedia, Social and Behavioral Sciences, 2012, 48, 3451-3460.	0.5	1
42	Probe Data Sampling Guidelines for Characterizing Arterial Travel Time. Transportation Research Record, 2012, 2315, 173-181.	1.9	12
43	Calibration of Platoon Dispersion Model with High-Resolution Signal Event Data. Transportation Research Record, 2012, 2311, 16-28.	1.9	25
44	Performance Measures for Adaptive Signal Control: Case Study of System-in-the-Loop Simulation. Transportation Research Record, 2012, 2311, 1-15.	1.9	26
45	Defining Design Space for Parameters of Traffic Signal Timing: Empirical Approach. Transportation Research Record, 2012, 2311, 85-98.	1.9	1
46	Computational Efficiency of Alternative Algorithms for Arterial Offset Optimization. Transportation Research Record, 2011, 2259, 37-47.	1.9	37
47	Analysis of Peer Data on Intersections for Decisions about Coordination of Arterial Traffic Signal. Transportation Research Record, 2011, 2259, 23-36.	1.9	4
48	Comparison of Alternative Real-Time Performance Measures for Measuring Signal Phase Utilization and Identifying Oversaturation. Transportation Research Record, 2011, 2259, 123-131.	1.9	15
49	Reliability, Flexibility, and Environmental Impact of Alternative Objective Functions for Arterial Offset Optimization. Transportation Research Record, 2011, 2259, 8-22.	1.9	25
50	Visual Education Tools to Illustrate Coordinated System Operation. Transportation Research Record, 2011, 2259, 59-72.	1.9	18
51	Track Clearance Performance Measures for Railroad-Preempted Intersections. Transportation Research Record, 2010, 2192, 64-76.	1.9	4
52	Decision Tree Model to Prioritize Signalized Intersections near Highwayâ€“Railroad Crossings for Railroad Interconnect. Transportation Research Record, 2010, 2192, 116-126.	1.9	0
53	Evaluation of Arterial Signal Coordination. Transportation Research Record, 2010, 2192, 37-49.	1.9	97
54	Operational Evaluation of Wireless Magnetometer Vehicle Detectors at Signalized Intersection. Transportation Research Record, 2010, 2192, 11-23.	1.9	20

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55	Outcome-Oriented Performance Measures for Management of Signalized Arterial Capacity. Transportation Research Record, 2010, 2192, 24-36.	1.9	18
56	Influence of Vertical Sensor Placement on Data Collection Efficiency from Bluetooth MAC Address Collection Devices. Journal of Transportation Engineering, 2010, 136, 1104-1109.	0.9	60
57	Performance Measures for Railroad-Preempted Intersections. Transportation Research Record, 2009, 2128, 20-34.	1.9	4
58	Three-Dimensional Mapping of Inductive Loop Detector Sensitivity with Field Measurement. Transportation Research Record, 2009, 2128, 35-47.	1.9	13
59	Cycle-Length Performance Measures. Transportation Research Record, 2009, 2128, 48-57.	1.9	13
60	Performance measures for managing urban traffic signal systems. WIT Transactions on the Built Environment, 2009, , .	0.0	1
61	A New Thermionic Cathode Based on Carbon Nanotubes with a Thin Layer of Low Work Function Barium Strontium Oxide Surface Coating. Materials Research Society Symposia Proceedings, 2008, 1142, 154101.	0.1	0
62	Integration of Real-Time Pedestrian Performance Measures into Existing Infrastructure of Traffic Signal System. Transportation Research Record, 2008, 2080, 37-47.	1.9	15
63	Quantitative Evaluation of Fully Actuated versus Nonactuated Coordinated Phases. Transportation Research Record, 2008, 2080, 8-21.	1.9	28
64	Enhanced field emission from carbon nanotubes with a thin layer of low work function barium strontium oxide surface coating. Journal of Vacuum Science & Technology B, 2007, 25, 1785.	1.3	9
65	Barium strontium oxide coated carbon nanotubes as field emitters. Applied Physics Letters, 2007, 90, 143114.	3.3	20
66	Enhanced Thermionic Emission from Barium Strontium Oxide Coated Carbon Nanotubes. , 2007, , .		0
67	Enhanced electron emission from functionalized carbon nanotubes with a barium strontium oxide coating produced by magnetron sputtering. Carbon, 2007, 45, 587-593.	10.3	109
68	Thermionic emission from carbon nanotubes with a thin layer of low work function barium strontium oxide surface coating. Applied Physics Letters, 2006, 88, 163116.	3.3	34
69	Thin film deposition of barium strontium oxide by rf magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 2187-2191.	2.1	2
70	A New Carbon Nanotube-Based Field Enhanced Thermionic Cathode. Materials Research Society Symposia Proceedings, 2004, 858, 88.	0.1	1
71	Evaluation of Strategies to Mitigate Culvert-Involved Crashes. Transportation Research Record, 0, , 036119812199207.	1.9	2
72	Scaling Detailed High-Resolution Data Split Performance Measures to Statewide System Level Management. , 0, , .		4

#	ARTICLE	IF	CITATIONS
73	Extending Link Pivot Offset Optimization to Arterials with Single Controller Diverging Diamond Interchange. , 0, , .		4
74	Characterizing Signalized Intersection Performance Using Maximum Vehicle Delay. , 0, , .		1
75	Analysis of Peer Intersection Data for Arterial Traffic Signal Coordination Decisions. , 0, , .		0
76	Performance Ranking of Arterial Corridors Using Travel Time and Travel Time Reliability Metrics. , 0, , .		0
77	Correlation Analysis for Exploring the Relationship Between Probe Vehicle Data and Event-Based Traffic Signal Performance Measures. Transportation Research Record, 0, , 036119812210846.	1.9	4