Matthew J Barth

List of Publications by Year
in descending order

188 papers	6,528 citations	101496 36 h-index	95218 68 g-index
189 all docs	189 docs citations	189 times ranked	4534 citing authors

#	Article	IF	Citations
1	Energy and emissions impacts of a freeway-based dynamic eco-driving system. Transportation Research, Part D: Transport and Environment, 2009, 14, 400-410.	3.2	437
2	Real-World Carbon Dioxide Impacts of Traffic Congestion. Transportation Research Record, 2008, 2058, 163-171.	1.0	435
3	Eco-Routing Navigation System Based on Multisource Historical and Real-Time Traffic Information. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1694-1704.	4.7	224
4	Lane Change and Merge Maneuvers for Connected and Automated Vehicles: A Survey. IEEE Transactions on Intelligent Vehicles, 2016, 1, 105-120.	9.4	196
5	Simulation model performance analysis of a multiple station shared vehicle system. Transportation Research Part C: Emerging Technologies, 1999, 7, 237-259.	3.9	183
6	Reinforcement Learning for Hybrid and Plug-In Hybrid Electric Vehicle Energy Management: Recent Advances and Prospects. IEEE Industrial Electronics Magazine, 2019, 13, 16-25.	2.3	160
7	Deep reinforcement learning enabled self-learning control for energy efficient driving. Transportation Research Part C: Emerging Technologies, 2019, 99, 67-81.	3.9	156
8	Real-Time Computer Vision/DGPS-Aided Inertial Navigation System for Lane-Level Vehicle Navigation. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 899-913.	4.7	147
9	Impacts of Road Grade on Fuel Consumption and Carbon Dioxide Emissions Evidenced by Use of Advanced Navigation Systems. Transportation Research Record, 2009, 2139, 21-30.	1.0	143
10	Dynamic Eco-Driving for Signalized Arterial Corridors and Its Indirect Network-Wide Energy/Emissions Benefits. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2013, 17, 31-41.	2.6	137
11	A Review on Cooperative Adaptive Cruise Control (CACC) Systems: Architectures, Controls, and Applications. , 2018, , .		129
12	Dynamic ECO-driving for arterial corridors. , 2011, , .		128
13	Arterial velocity planning based on traffic signal information under light traffic conditions. , 2009, , .		125
14	Shared-Use Vehicle Systems: Framework for Classifying Carsharing, Station Cars, and Combined Approaches. Transportation Research Record, 2002, 1791, 105-112.	1.0	118
15	Next-Generation Automated Vehicle Location Systems: Positioning at the Lane Level. IEEE Transactions on Intelligent Transportation Systems, 2008, 9, 48-57.	4.7	112
16	Development of Comprehensive Modal Emissions Model: Operating Under Hot-Stabilized Conditions. Transportation Research Record, 1997, 1587, 52-62.	1.0	105
17	Cooperative Eco-Driving at Signalized Intersections in a Partially Connected and Automated Vehicle Environment. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2029-2038.	4.7	101
18	Data-driven decomposition analysis and estimation of link-level electric vehicle energy consumption under real-world traffic conditions. Transportation Research, Part D: Transport and Environment, 2018, 64, 36-52.	3.2	97

#	Article	IF	Citations
19	Modal Emissions Modeling: A Physical Approach. Transportation Research Record, 1996, 1520, 81-88.	1.0	91
20	Power-Based Optimal Longitudinal Control for a Connected Eco-Driving System. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2900-2910.	4.7	90
21	Modal Emissions Model for Heavy-Duty Diesel Vehicles. Transportation Research Record, 2004, 1880, 10-20.	1.0	84
22	Development and Evaluation of an Intelligent Energy-Management Strategy for Plug-in Hybrid Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1091-1100.	4.7	84
23	Eco-Approach and Departure (EAD) Application for Actuated Signals in Real-World Traffic. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 30-40.	4.7	84
24	GlidePath: Eco-Friendly Automated Approach and Departure at Signalized Intersections. IEEE Transactions on Intelligent Vehicles, 2017, 2, 266-277.	9.4	78
25	Platoon-based multi-agent intersection management for connected vehicle. , 2013, , .		77
26	Data-Driven Reinforcement Learningâ€“Based Real-Time Energy Management System for Plug-In Hybrid Electric Vehicles. Transportation Research Record, 2016, 2572, 1-8.	1.0	77
27	Development and Application of an International Vehicle Emissions Model. Transportation Research Record, 2005, 1939, 156-165.	1.0	74
28	Modal Emissions Modeling: A Physical Approach. Transportation Research Record, 1996, 1520, 81-88.	1.0	71
29	Impacts of freeway high-occupancy vehicle lane configuration on vehicle emissions. Transportation Research, Part D: Transport and Environment, 2008, 13, 112-125.	3.2	64
30	Vehicle Specific Power Approach to Estimating On-Road NH_3 Emissions from Light-Duty Vehicles. Environmental Science & Technology, 2005, 39, 9595-9600.	4.6	61
31	Real-Time Video-Based Traffic Measurement and Visualization System for Energy/Emissions. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1667-1678.	4.7	60
32	Field operational testing of ECO-approach technology at a fixed-time signalized intersection. , 2012, , .		60
33	Prediction-Based Eco-Approach and Departure at Signalized Intersections With Speed Forecasting on Preceding Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1378-1389.	4.7	59
34	Development and Evaluation of an Evolutionary Algorithm-Based OnLine Energy Management System for Plug-In Hybrid Electric Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2181-2191.	4.7	58
35	Developing a platoon-wide Eco-Cooperative Adaptive Cruise Control (CACC) system. , 2017, , .		56
36	Evaluation of electric vehicle component performance over eco-driving cycles. Energy, 2019, 172, 823-839.	4.5	56

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37	Environmentally-Friendly Navigation. , 2007, , .		53
38	Hybrid Reinforcement Learning-Based Eco-Driving Strategy for Connected and Automated Vehicles at Signalized Intersections. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15850-15863.	4.7	48
39	Recent Validation Efforts for a Comprehensive Modal Emissions Model. Transportation Research Record, 2001, 1750, 13-23.	1.0	47
40	Multi-Agent Intersection Management for Connected Vehicles Using an Optimal Scheduling Approach. , 2012, , .		44
41	A novel multi-planar LIDAR and computer vision calibration procedure using 2D patterns for automated navigation. , 2009, , .		43
42	Advanced intersection management for connected vehicles using a multi-agent systems approach. , 2012, , .		43
43	Developing a Distributed Consensus-Based Cooperative Adaptive Cruise Control System for Heterogeneous Vehicles with Predecessor Following Topology. Journal of Advanced Transportation, 2017, 2017, 1-16.	0.9	43
44	Tightly-coupled LIDAR and computer vision integration for vehicle detection. , 2009, , .		41
45	Interoperability Options for Shared-Use Vehicle Systems. Transportation Research Record, 2004, 1887, 137-144.	1.0	39
46	Customer-Side SCADA-Assisted Large Battery Operation Optimization for Distribution Feeder Peak Load Shaving. IEEE Transactions on Smart Grid, 2019, 10, 992-1004.	6.2	39
47	Part 3: Developing Countries: Development and Application of an International Vehicle Emissions Model. Transportation Research Record, 2005, 1939, 155-165.	1.0	39
48	Performance Measurement Evaluation Framework and Co-Benefit/Tradeoff Analysis for Connected and Automated Vehicles (CAV) Applications: A Survey. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 110-122.	2.6	38
49	Energy and Emission Benefit Comparison of Stationary and In-Vehicle Advanced Driving Alert Systems. Transportation Research Record, 2010, 2189, 98-106.	1.0	36
50	Distributed Consensus-Based Cooperative Highway On-Ramp Merging Using V2X Communications. , 0, , .		35
51	Estimating Emissions and Fuel Consumption for Different Levels of Freeway Congestion. Transportation Research Record, 1999, 1664, 47-57.	1.0	33
52	Deep reinforcement learning-based vehicle energy efficiency autonomous learning system. , 2017, , .		32
53	Analysis of Modal Emissions From Diverse In-Use Vehicle Fleet. Transportation Research Record, 1997, 1587, 73-84.	1.0	31
54	Cooperative Ramp Merging Design and Field Implementation: A Digital Twin Approach Based on Vehicle-to-Cloud Communication. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4490-4500.	4.7	31

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55	Development and evaluation of an enhanced eco-approach traffic signal application for Connected Vehicles. , 2013, , .		30
56	Developing a framework of Eco-Approach and Departure application for actuated signal control. , 2015, , .		30
57	Value of eco-friendly route choice for heavy-duty trucks. Research in Transportation Economics, 2015, 52, 3-14.	2.2	29
58	Centimeter-Accuracy Smoothed Vehicle Trajectory Estimation. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 121-135.	2.6	28
59	Improving traffic operations using real-time optimal lane selection with connected vehicle technology. , 2014, , .		28
60	User Behavior Evaluation of an Intelligent Shared Electric Vehicle System. Transportation Research Record, 2001, 1760, 145-152.	1.0	27
61	Traffic and emission simulation in China based on statistical methodology. Atmospheric Environment, 2011, 45, 1154-1161.	1.9	26
62	Modal Activity-Based Stochastic Model for Estimating Vehicle Trajectories from Sparse Mobile Sensor Data. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 701-711.	4.7	26
63	Vehicle Energy/Emissions Estimation Based on Vehicle Trajectory Reconstruction Using Sparse Mobile Sensor Data. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 716-726.	4.7	26
64	The State-of-the-Art of Coordinated Ramp Control with Mixed Traffic Conditions. , 2019, , .		25
65	Connected Vehicle-Based Lane Selection Assistance Application. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2630-2643.	4.7	24
66	Intelligent Transportation System Technology in a Shared Electric Vehicle Program. Transportation Research Record, 2000, 1731, 88-95.	1.0	23
67	Cluster-Wise Cooperative Eco-Approach and Departure Application for Connected and Automated Vehicles Along Signalized Arterials. IEEE Transactions on Intelligent Vehicles, 2018, 3, 404-413.	9.4	23
68	Reducing pedestrians' inhalation of traffic-related air pollution through route choices: Case study in California suburb. Journal of Transport and Health, 2018, 10, 111-123.	1.1	23
69	Supplementary Benefits from Partial Vehicle Automation in an Ecoapproach and Departure Application at Signalized Intersections. Transportation Research Record, 2014, 2424, 66-75.	1.0	22
70	Impacts of Diverse Driving Cycles on Electric and Hybrid Electric Vehicle Performance. , 1997, , .		21
71	Measurements of In-Use Emissions from Modern Vehicles Using an On-Board Measurement System. Environmental Science & Technology, 2007, 41, 6554-6561.	4.6	21
72	Intra-platoon vehicle sequence optimization for eco-cooperative adaptive cruise control. , 2017, , .		21

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73	Energy Impact of Connected Eco-driving on Electric Vehicles. Lecture Notes in Mobility, 2018, , 97-111.	0.2	21
74	Personalized Car Following for Autonomous Driving with Inverse Reinforcement Learning. , 2022, , .		21
75	Intelligent Transportation Technology Elements and Operational Methodologies for Shared-Use Vehicle Systems. Transportation Research Record, 2003, 1841, 99-108.	1.0	20
76	Identifying the effect of vehicle operating history on vehicle running emissions. Atmospheric Environment, 2012, 59, 22-29.	1.9	20
77	Connected Cooperative Ecodriving System Considering Human Driver Error. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2721-2733.	4.7	20
78	Using GPS Technology to Relate Macroscopic and Microscopic Traffic Parameters. Transportation Research Record, 1996, 1520, 89-96.	1.0	20
79	Measuring and Modeling Emissions from Extremely Low-Emitting Vehicles. Transportation Research Record, 2006, 1987, 21-31.	1.0	19
80	A transmission-interval and power-level modulation methodology for optimizing inter-vehicle communications. , 2004, , .		18
81	The potential role of vehicle automation in reducing traffic-related energy and emissions. , 2013, , .		18
82	Vision-Based Lane-Changing Behavior Detection Using Deep Residual Neural Network. , 2019, , .		18
83	Traffic sign detection, state estimation, and identification using onboard sensors. , 2013, , .		17
84	A Novel Blended Real-Time Energy Management Strategy for Plug-in Hybrid Electric Vehicle Commute Trips. , 2015, , .		17
85	Carsharing and Station Cars in Asia: Overview of Japan and Singapore. , 0, .		17
86	Using GPS Technology to Relate Macroscopic and Microscopic Traffic Parameters. Transportation Research Record, 1996, 1520, 89-96.	1.0	16
87	Using Portable Emission Measurement Systems for Transportation Emissions Studies. Transportation Research Record, 2010, 2158, 54-60.	1.0	16
88	Vehicle Automation and Its Potential Impacts on Energy and Emissions. Lecture Notes in Mobility, 2014, , 103-112.	0.2	16
89	UCR INTELLISHARE. IATSS Research, 2003, 27, 48-57.	1.8	15
90	Evaluating Air Quality Benefits of Freeway High-Occupancy Vehicle Lanes in Southern California. Transportation Research Record, 2007, 2011, 137-147.	1.0	15

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91	Consideration of exposure to traffic-related air pollution in bicycle route planning. Journal of Transport and Health, 2020, 16, 100792.	1.1	15
92	Environmentally Beneficial Intelligent Transportation Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 342-345.	0.4	14
93	Cluster-wise cooperative eco-approach and departure application along signalized arterials. , 2017, , .		14
94	Designing On-Road Vehicle Test Programs for the Development of Effective Vehicle Emission Models. Transportation Research Record, 2005, 1941, 51-59.	1.0	14
95	Carsharing and Station Cars in Asia. Transportation Research Record, 2006, 1986, 106-115.	1.0	13
96	A Novel Loglinear Model for Freeway Travel Time Prediction. , 2008, , .		13
97	Real-time multi-vehicle tracking based on feature detection and color probability model. , 2010, , .		13
98	Indirect network-wide energy/emissions benefits from dynamic eco-driving on signalized corridors. , 2011, , .		13
99	Examination of Attributes and Value of Ecologically Friendly Route Choices. Transportation Research Record, 2014, 2427, 13-25.	1.0	13
100	Intelligent Transportation Systems and Greenhouse Gas Reductions. Current Sustainable/Renewable Energy Reports, 2015, 2, 90-97.	1.2	13
101	A novel arterial travel time distribution estimation model and its application to energy/emissions estimation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2018, 22, 325-337.	2.6	13
102	Travel Time Estimation Techniques for Traffic Information Systems Based on Intervehicle Communications. , 0, .		13
103	Mobile-Source Emissions: Analysis of Spatial Variability in Vehicle Activity Patterns and Vehicle Fleet Distributions. Transportation Research Record, 2003, 1842, 91-98.	1.0	12
104	Defining a Freeway Mobility Index for Roadway Navigation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2010, 14, 37-50.	2.6	12
105	Arterial roadway energy/emissions estimation using modal-based trajectory reconstruction. , 2011, , .		12
106	Probabilistic model for estimating vehicle trajectories using sparse mobile sensor data. , 2014, , .		12
107	Data-Driven Multi-step Demand Prediction for Ride-Hailing Services Using Convolutional Neural Network. Advances in Intelligent Systems and Computing, 2020, , 11-22.	0.5	12
108	A Qualitative Analysis of Vehicle Positioning Requirements for Connected Vehicle Applications. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 225-242.	2.6	12

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109	Online Prediction of Lane Change with a Hierarchical Learning-Based Approach. , 2022, , .		12
110	Measuring and Modeling Emissions from Extremely Low-Emitting Vehicles. Transportation Research Record, 2006, 1987, 21-31.	1.0	11
111	A Novel Omni-Directional Vision Sensing Technique for Traffic Surveillance. , 2007, , .		11
112	A comparative study on data segregation for mesoscopic energy modeling. Transportation Research, Part D: Transport and Environment, 2017, 50, 70-82.	3.2	11
113	Evaluating the environmental impact of traffic congestion based on sparse mobile crowd-sourced data. , 2017, , .		11
114	Critical Issues in Quantifying Hybrid Electric Vehicle Emissions and Fuel Consumption. , 0, , .		10
115	Preliminary evaluation of field testing on Eco-Approach and Departure (EAD) application for actuated signals. , 2015, , .		10
116	Bi-level Optimal Edge Computing Model for On-ramp Merging in Connected Vehicle Environment. , 2019, , .		10
117	Early Findings from Field Trials of Heavy-Duty Truck Connected Eco-Driving System. , 2019, , .		10
118	Position Uncertainty-Tolerant Cooperative Merging Application for Mixed Multilane Traffic. IEEE Transactions on Intelligent Vehicles, 2022, 7, 143-153.	9.4	10
119	Modeling Enleanment Emissions for Light-Duty Vehicles. Transportation Research Record, 1998, 1641, 48-57.	1.0	9
120	Vehicular network rerouting autonomy with a V2V, I2V, and V2I communication matrix classification. , 2013, , .		9
121	Eco-Friendly Freight Signal Priority using connected vehicle technology: A multi-agent systems approach. , 2014, , .		9
122	Probabilistic model for vehicle trajectories reconstruction using sparse mobile sensor data on freeways. , 2016, , .		9
123	Lookup Table-Based Consensus Algorithm for Real-Time Longitudinal Motion Control of Connected and Automated Vehicles. , 2019, , .		9
124	Vehicle Activity Patterns and Emissions in Pune, India. Transportation Research Record, 2007, 2038, 156-166.	1.0	8
125	Arterial roadway travel time distribution estimation and vehicle movement classification using a modified Gaussian Mixture Model. , 2013, , .		8
126	Development of an agent-based online adaptive signal control strategy using connected vehicle technology. , 2014, , .		8

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127	Developing an Aerial-Image-Based Approach for Creating Digital Sidewalk Inventories. Transportation Research Record, 2019, 2673, 499-507.	1.0	8
128	Optimal Control-Based Eco-Ramp Merging System for Connected and Automated Vehicles. , 2020, , .		8
129	Microscopic Traffic Flow Quality of Service from the Drivers' Point of View. , 2007, , .		7
130	Statistical Approach to Estimating Truck Traffic Speed and Its Application to Emission Inventory Modeling. Transportation Research Record, 2011, 2233, 110-119.	1.0	7
131	Battery-assisted distribution feeder peak load reduction: Stochastic optimization and utility-scale implementation. , 2016, , .		7
132	Empirical Study of Lane-Changing Characteristics on High-Occupancy-Vehicle Facilities with Different Types of Access Control Based on Aerial Survey Data. Journal of Transportation Engineering, 2016, 142, 04015034.	0.9	7
133	Energy and mobility benefits from connected ecodriving for electric vehicles. , 2017, , .		7
134	Anticipatory Lane Change Warning using Vehicle-to-Vehicle Communications. , 2018, , .		7
135	Vehicle Total Life-Cycle Exhaust Emissions. , 1995, , .		6
136	Real-time roadway emissions estimation using visual traffic measurements. , 2011, , .		6
137	Simulation-based benefit evaluation of dynamic lane grouping strategies at isolated intersections. , 2012, , .		6
138	Developing an Adaptive Strategy for Connected Eco-Driving under Uncertain Traffic Condition. , 2019, , .		6
139	An Advanced Simulation Framework of an Integrated Vehicle-Powertrain Eco-Operation System for Electric Buses. , 2019, , .		6
140	Stated acceptance and behavioral responses of drivers towards innovative connected vehicle applications. Accident Analysis and Prevention, 2021, 155, 106095.	3.0	6
141	Emissions Comparison Between Truck and Rail: Case Study of California I-40. Transportation Research Record, 1996, 1520, 44-52.	1.0	6
142	Modal-Based Intermediate Soak-Time Emissions Modeling. Transportation Research Record, 1999, 1664, 58-67.	1.0	5
143	Baseline Detection and Localization for Invisible Omnidirectional Cameras. International Journal of Computer Vision, 2004, 58, 209-226.	10.9	5
144	Mobile traffic surveillance system for dynamic roadway and vehicle traffic data integration. , 2011, , .		5

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145	Evolutionary algorithm based on-line PHEV energy management system with self-adaptive SOC control. , 2015, , .		5
146	A hybrid approach to estimating electric vehicle energy consumption for ecodriving applications. , 2016, , .		5
147	Development and Evaluation of High-Speed Differential Warning Application Using Vehicle-to-Vehicle Communication. Transportation Research Record, 2017, 2621, 81-91.	1.0	5
148	Dynamic En-Route Eco-Navigation: Strategy Design, Implementation and Evaluation. , 2018, , .		5
149	Evaluating the effectiveness of V2V-based Lane Speed Monitoring application: A simulation study. , 2016, , .		4
150	Development and Evaluation of Lane Hazard Prediction Application for Connected and Automated Vehicles (CAVs). , 2018, , .		4
151	Demonstration of Microgrid Resiliency with V2G Operation. , 2021, , .		4
152	Corridor-Wise Eco-Friendly Cooperative Ramp Management System for Connected and Automated Vehicles. Sustainability, 2021, 13, 8557.	1.6	4
153	A Modularized Electric Vehicle Model-in-the-Loop Simulation for Transportation Electrification Modeling and Analysis. , 2021, , .		4
154	Interaction of Temperature, Humidity, Driver Preferences, and Refrigerant Type on Air Conditioning Compressor Usage. Journal of the Air and Waste Management Association, 2000, 50, 1759-1768.	0.9	3
155	Improvements to On-Road Emission Modeling of Freeways with High-Occupancy Vehicle Facilities. Transportation Research Record, 2009, 2123, 109-118.	1.0	3
156	Analysis of Heavy-Duty Diesel Truck Activity and Fuel Economy Based on Electronic Control Module Data. Transportation Research Record, 2010, 2191, 23-33.	1.0	3
157	An on-line energy management strategy for plug-in hybrid electric vehicles using an Estimation Distribution Algorithm. , 2014, , .		3
158	Developing and evaluating an eco-speed harmonization strategy for connected vehicles. , 2015, , .		3
159	A comparison between two MPC algorithms for demand charge reduction in a real-world microgrid system. , 2016, , .		3
160	A co-benefit and tradeoff evaluation framework for connected and automated vehicle applications. , 2017, , .		3
161	Evaluating the Environmental Impacts of Connected and Automated Vehicles: Potential Shortcomings of a Binned-Based Emissions Model. , 2019, , .		3
162	Emissions Analysis of Southern California Metrolink Commuter Rail. Transportation Research Record, 1996, 1520, 53-62.	1.0	3

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163	Evaluating Cybersecurity Risks of Cooperative Ramp Merging in Mixed Traffic Environments. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 52-65.	2.6	3
164	Rapid omnidirectional vision acquisition using an intelligent linear scanning technique. Machine Vision and Applications, 2003, 14, 85-93.	1.7	2
165	A developmental framework towards dynamic incident rerouting using vehicle-to-vehicle communication and multi-agent systems. , 2010, , .		2
166	Vehicle parameterization and tracking from traffic videos. , 2010, , .		2
167	Generating Heavy-Duty Truck Activity Data Inputs for MOVES Based on Large-Scale Truck Telematics Data. Transportation Research Record, 2012, 2270, 49-58.	1.0	2
168	Fusion of Vehicle Weight and Activity Data for Improved Vehicle Emission Modeling. Transportation Research Record, 2015, 2503, 153-162.	1.0	2
169	Vehicle Routing to Mitigate Human Exposure to Traffic-Related Air Pollutants. , 2018, , .		2
170	Developing a Data-driven Modularized Model of a Plug-in Hybrid Electric Bus (PHEB) for Connected and Automated Vehicle Applications. , 2020, , .		2
171	A Complete State Transition-Based Traffic Signal Control Using Deep Reinforcement Learning. , 2022, , .		2
172	Catadioptric omnidirectional vision sensor integration for vehicle-based sensing. , 2009, , .		1
173	Vehicle road navigation to minimize pollutant exposure. , 2013, , .		1
174	Different Types of High-Occupancy Vehicle Access Control. Transportation Research Record, 2015, 2484, 149-158.	1.0	1
175	Safety, mobility and environmental sustainability of Eco-Approach and Departure application at signalized intersections: A simulation study. , 2016, , .		1
176	Partially limited access control design for special-use freeway lanes. Transportation Research, Part A: Policy and Practice, 2018, 118, 25-37.	2.0	1
177	An Innovative Framework to Evaluate the Performance of Connected Vehicle Applications: From the Perspective of Speed Variation-Based Entropy (SVE). IEEE Intelligent Transportation Systems Magazine, 2021, 13, 45-63.	2.6	1
178	Data-Driven Energy Efficient Driving Control in Connected Vehicle Environment. , 2019, , 11-49.		1
179	Errata for â€œCooperative Eco-Driving at Signalized Intersections in a Partially Connected and Automated Vehicle Environmentâ€• IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4919-4919.	4.7	1
180	Connected Vehicle-based Truck Eco-Driving: A Simulation Study. , 2021, , .		1

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181	Heavy-duty truck routing strategy for reducing community-wide exposure to associated tailpipe emissions. Transportation Research, Part D: Transport and Environment, 2022, 107, 103289.	3.2	1
182	Identification and localization of multiple robots using omnidirectional vision sensors. Electronics and Communications in Japan, 2003, 86, 44-53.	0.2	0
183	A New Methodology for Processing Time Varying Traffic Data in Multiple States. , 2008, , .		0
184	Mobility Index-Based Navigation for Mandatory Re-Routing Scenarios. , 2008, , .		0
185	[President's Message]. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 4-5.	2.6	0
186	Intelligent On-Line Energy Management System for Plug-in Hybrid Electric Vehicles based on Evolutionary Algorithm. , 2016, , .		0
187	Connected Vehicle-Based Advanced Detection of â€œSlow-Downâ€•Events on Freeways. , 2021, , .		0
188	Intersection and Stop Bar Position Extraction From Vehicle Positioning Data. IEEE Transactions on Intelligent Transportation Systems, 2020, , 1-12.	4.7	0