Weichao Zhuang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A survey of powertrain configuration studies on hybrid electric vehicles. Applied Energy, 2020, 262, 114553.	5.1	135
2	Crashworthiness analysis of double-arrowed auxetic structure under axial impact loading. Materials and Design, 2019, 161, 22-34.	3.3	85
3	Comparison of multi-mode hybrid powertrains with multiple planetary gears. Applied Energy, 2016, 178, 624-632.	5.1	78
4	Modeling and Robust Control of Heterogeneous Vehicle Platoons on Curved Roads Subject to Disturbances and Delays. IEEE Transactions on Vehicular Technology, 2019, 68, 11551-11564.	3.9	60
5	Mode shift map design and integrated energy management control of a multi-mode hybrid electric vehicle. Applied Energy, 2017, 204, 476-488.	5.1	56
6	Energy-oriented cruising strategy design of vehicle platoon considering communication delay and disturbance. Transportation Research Part C: Emerging Technologies, 2019, 107, 34-53.	3.9	48
7	Simultaneous optimization of topology, control and size for multi-mode hybrid tracked vehicles. Applied Energy, 2018, 212, 1627-1641.	5.1	47
8	Rapid Configuration Design of Multiple-Planetary-Gear Power-Split Hybrid Powertrain via Mode Combination. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2924-2934.	3.7	46
9	A Distributed Integrated Control Architecture of AFS and DYC Based on MAS for Distributed Drive Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 5565-5577.	3.9	39
10	Simultaneous Optimization of Topology and Component Sizes for Double Planetary Gear Hybrid Powertrains. Energies, 2016, 9, 411.	1.6	38
11	Enhanced Eco-Approach Control of Connected Electric Vehicles at Signalized Intersection With Queue Discharge Prediction. IEEE Transactions on Vehicular Technology, 2021, 70, 5457-5469.	3.9	37
12	Optimal design of three-planetary-gear power-split hybrid powertrains. International Journal of Automotive Technology, 2016, 17, 299-309.	0.7	36
13	In-plane crushing behaviors of piecewise linear graded honeycombs. Composite Structures, 2019, 207, 425-437.	3.1	34
14	Stable Longitudinal Control of Heterogeneous Vehicular Platoon With Disturbances and Information Delays. IEEE Access, 2018, 6, 69794-69806.	2.6	33
15	Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4326-4338.	5.9	30
16	Safe and optimal lane-change path planning for automated driving. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 1070-1083.	1.1	25
17	Mode Shift Schedule and Control Strategy Design of Multimode Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2020, 28, 804-815.	3.2	23
18	Predictive energy-efficient driving strategy design of connected electric vehicle among multiple signalized intersections. Transportation Research Part C: Emerging Technologies, 2022, 137, 103595.	3.9	23

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#	Article	IF	CITATIONS
19	Integrated energy-oriented cruising control of electric vehicle on highway with varying slopes considering battery aging. Science China Technological Sciences, 2020, 63, 155-165.	2.0	21
20	Optimal sizing and adaptive energy management of a novel four-wheel-drive hybrid powertrain. Energy, 2019, 187, 116008.	4.5	19
21	Self-learning control for coordinated collision avoidance of automated vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 1149-1163.	1.1	18
22	A Decentralized Cooperative Control Framework for Active Steering and Active Suspension: Multi-Agent Approach. IEEE Transactions on Transportation Electrification, 2022, 8, 1414-1429.	5.3	18
23	Simultaneous Longitudinal and Lateral Control of Vehicle Platoon Subject to Stochastic Communication Delays. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	16
24	Integrated energy-oriented lateral stability control of a four-wheel-independent-drive electric vehicle. Science China Technological Sciences, 2019, 62, 2170-2183.	2.0	15
25	Comparison of semi-active hybrid battery system configurations for electric taxis application. Applied Energy, 2020, 259, 114171.	5.1	15
26	A comparative study of energy-efficient driving strategy for connected internal combustion engine and electric vehicles at signalized intersections. Applied Energy, 2022, 310, 118524.	5.1	15
27	Distributed Formation Control of Homogeneous Vehicle Platoon Considering Vehicle Dynamics. International Journal of Automotive Technology, 2019, 20, 1103-1112.	0.7	13
28	Comparison of four-wheel-drive hybrid powertrain configurations. Energy, 2020, 209, 118286.	4.5	13
29	Optimal Engine Starts of an Input-Split Hybrid Electric Vehicle. SAE International Journal of Alternative Powertrains, 0, 4, 343-351.	0.8	12
30	Strategy for heterogeneous vehicular platoons merging in automated highway system. , 2018, , .		12
31	Robust overtaking control of autonomous electric vehicle with parameter uncertainties. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 3358-3376.	1.1	12
32	Energy-Optimal Braking Control Using a Double-Layer Scheme for Trajectory Planning and Tracking of Connected Electric Vehicles. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	11
33	Robust Inter-Vehicle Distance Measurement Using Cooperative Vehicle Localization. Sensors, 2021, 21, 2048.	2.1	10
34	CT2â€MDS: Cooperative trustâ€aware tolerant misbehaviour detection system for connected and automated vehicles. IET Intelligent Transport Systems, 2022, 16, 218-231.	1.7	10
35	Cooperative Merging for Multiple Connected and Automated Vehicles at Highway On-Ramps via Virtual Platoon Formation. , 2019, , .		9
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37	Robust Cooperative Control of Multiple Autonomous Vehicles for Platoon Formation Considering Parameter Uncertainties. Automotive Innovation, 2020, 3, 88-100.	3.1	9
38	Geometry-Based Cooperative Localization for Connected Vehicle Subject to Temporary Loss of GNSS Signals. IEEE Sensors Journal, 2021, 21, 23527-23536.	2.4	9
39	Stochastic Stable Control of Vehicular Platoon Time-Delay System Subject to Random Switching Topologies and Disturbances. IEEE Transactions on Vehicular Technology, 2022, 71, 5755-5769.	3.9	9
40	Optimal energy management strategy design for a diesel parallel hybrid electric vehicle. , 2014, , .		7
41	Optimal sizing and learning-based energy management strategy of NCR/LTO hybrid battery system for electric taxis. Energy, 2022, 257, 124653.	4.5	7
42	Energy-Optimal Velocity Planning for Connected Electric Vehicles at Signalized Intersection with Queue Prediction. , 2020, , .		6
43	Decentralized On-Ramp Merging Control of Connected and Automated Vehicles in the Mixed Traffic Using Control Barrier Functions. , 2021, , .		6
44	Learning-Based Vibration Control of Vehicle Active Suspension. , 2020, , .		6
45	Ecological cruising control of connected electric vehicle: a deep reinforcement learning approach. Science China Technological Sciences, 2022, 65, 529-540.	2.0	5
46	Event-Driven Energy-Efficient Driving Control in Urban Traffic for Connected Electric Vehicles. IEEE Transactions on Transportation Electrification, 2023, 9, 99-113.	5.3	4
47	A Novel Four-Wheel-Drive Hybrid Electric Sport Utility Vehicle with Double Planetary Gears. IFAC-PapersOnLine, 2018, 51, 81-86.	0.5	3
48	Recognition Method for Multi-Class Motor Imagery EEG Based on Channel Frequency Selection. , 2018, , .		2
49	Rule-filter-integrated Control of LFP/LTO Hybrid Energy Storage System for Vehicular Application. , 2019, , .		2
50	Rapid Optimization of Multiple-Planetary-Gear Power-Split Hybrid Powertrains. , 2015, , .		1
51	A thermal management method for lithium-ion battery based on fuzzy model predictive control. , 2019, , \cdot		1
52	Predictive Ecological Control: Using Road Terrain and Traffic Signal Information for Improving Vehicle Energy Efficiency. , 2019, , .		1
53	Instantaneous Velocity Optimization Strategy of Electric Vehicle Considering Varying Road Slopes. , 2019, , .		1
54	Adaptive Multi-modal Fusion Instance Segmentation for CAEVs in Complex Conditions: Dataset, Framework and Verifications. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	1

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#	Article	IF	CITATIONS
55	Distance-Based Cooperative Localization of Connected Vehicles Via Convex Relaxation Under Extreme Environments. , 2021, , .		1
56	Modeling and Online Parameter Identification of Lithium Battery Considering Hysteresis Characteristics. , 2019, , .		0
57	Energy-Efficient Feedback Control Strategy of Vehicle Platoon on Highway with Varying Slopes. , 2019, , .		Ο
58	Investigation of the Performance and Potential of a Novel Trackless Train with Pneumatic Tires. Lecture Notes in Mechanical Engineering, 2020, , 531-536.	0.3	0
59	Cooperative Merging Trajectory Optimization of Connected and Automated Vehicles in the Mixed Traffic: a Receding Horizon Control Approach. , 2021, , .		Ο
60	Ecological Predictive Cruise Control of Connected Electric Vehicle with Predecessor Velocity Prediction and Road Grade Preview. , 2021, , .		0
61	Safety-critical Eco-driving Strategy for Electric Vehicle at Signalized Intersection Using Control Barrier Function. , 2021, , .		0