Chao Yang

List of Publications by Year
in descending order

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		236612	233125
60	2,177	25	45
papers	citations	h-index	g-index

60	60	60	1276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Correctional DP-Based Energy Management Strategy of Plug-In Hybrid Electric Bus for City-Bus Route. IEEE Transactions on Vehicular Technology, 2015, 64, 2792-2803.	3.9	206
2	Driving-behavior-aware stochastic model predictive control for plug-in hybrid electric buses. Applied Energy, 2016, 162, 868-879.	5.1	201
3	Model predictive control-based efficient energy recovery control strategy for regenerative braking system of hybrid electric bus. Energy Conversion and Management, 2016, 111, 299-314.	4.4	157
4	Adaptive real-time optimal energy management strategy based on equivalent factors optimization for plug-in hybrid electric vehicle. Applied Energy, 2017, 203, 883-896.	5.1	135
5	Efficient energy management strategy for hybrid electric vehicles/plugâ€in hybrid electric vehicles: review and recent advances under intelligent transportation system. IET Intelligent Transport Systems, 2020, 14, 702-711.	1.7	135
6	A Stochastic Predictive Energy Management Strategy for Plug-in Hybrid Electric Vehicles Based on Fast Rolling Optimization. IEEE Transactions on Industrial Electronics, 2020, 67, 9659-9670.	5.2	90
7	Cloud computing-based energy optimization control framework for plug-in hybrid electric bus. Energy, 2017, 125, 11-26.	4.5	78
8	Robust coordinated control for hybrid electric bus with singleâ€shaft parallel hybrid powertrain. IET Control Theory and Applications, 2015, 9, 270-282.	1.2	73
9	Hybrid genetic algorithm-based optimization of powertrain and control parameters of plug-in hybrid electric bus. Journal of the Franklin Institute, 2015, 352, 776-801.	1.9	67
10	A hybrid algorithm combining EKF and RLS in synchronous estimation of road grade and vehicle×³ mass for a hybrid electric bus. Mechanical Systems and Signal Processing, 2016, 68-69, 416-430.	4.4	67
11	Multi-objective Stochastic MPC-based System Control Architecture for Plug-in Hybrid Electric Buses. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	60
12	Multimode Energy Management for Plug-In Hybrid Electric Buses Based on Driving Cycles Prediction. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2811-2821.	4.7	58
13	A robust Hâˆž control-based hierarchical mode transition control system for plug-in hybrid electric vehicle. Mechanical Systems and Signal Processing, 2018, 99, 326-344.	4.4	58
14	Efficient Mode Transition Control for Parallel Hybrid Electric Vehicle With Adaptive Dual-Loop Control Framework. IEEE Transactions on Vehicular Technology, 2020, 69, 1519-1532.	3.9	56
15	Hierarchical Control of Dry Clutch for Engine-Start Process in a Parallel Hybrid Electric Vehicle. IEEE Transactions on Transportation Electrification, 2016, 2, 231-243.	5.3	55
16	An Intelligent Lane-Changing Behavior Prediction and Decision-Making Strategy for an Autonomous Vehicle. IEEE Transactions on Industrial Electronics, 2022, 69, 2927-2937.	5.2	52
17	Application-Oriented Stochastic Energy Management for Plug-in Hybrid Electric Bus With AMT. IEEE Transactions on Vehicular Technology, 2016, 65, 4459-4470.	3.9	47
18	An Optimization-Based Path Planning Approach for Autonomous Vehicles Using the DynEFWA-Artificial Potential Field. IEEE Transactions on Intelligent Vehicles, 2022, 7, 263-272.	9.4	47

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19	A hybrid dynamic programming-rule based algorithm for real-time energy optimization of plug-in hybrid electric bus. Science China Technological Sciences, 2014, 57, 2542-2550.	2.0	43
20	Economical launching and accelerating control strategy for a single-shaft parallel hybrid electric bus. Mechanical Systems and Signal Processing, 2016, 76-77, 649-664.	4.4	39
21	A novel combinatorial optimization algorithm for energy management strategy of plug-in hybrid electric vehicle. Journal of the Franklin Institute, 2017, 354, 6588-6609.	1.9	32
22	An efficient vehicle-following predictive energy management strategy for PHEV based on improved sequential quadratic programming algorithm. Energy, 2021, 219, 119595.	4.5	31
23	Motor-Temperature-Aware Predictive Energy Management Strategy for Plug-In Hybrid Electric Vehicles Using Rolling Game Optimization. IEEE Transactions on Transportation Electrification, 2021, 7, 2209-2223.	5.3	30
24	Temporal-Difference Learning-Based Stochastic Energy Management for Plug-in Hybrid Electric Buses. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2378-2388.	4.7	29
25	A multi-objective optimization energy management strategy for power split HEV based on velocity prediction. Energy, 2022, 238, 121714.	4.5	27
26	Electromechanical coupling driving control for single-shaft parallel hybrid powertrain. Science China Technological Sciences, 2014, 57, 541-549.	2.0	25
27	Cyber Physical Energy Optimization Control Design for PHEVs Based on Enhanced Firework Algorithm. IEEE Transactions on Vehicular Technology, 2021, 70, 282-291.	3.9	24
28	An adaptive firework algorithm optimization-based intelligent energy management strategy for plug-in hybrid electric vehicles. Energy, 2022, 239, 122120.	4.5	24
29	An Adaptive Stochastic Model Predictive Control Strategy for Plug-in Hybrid Electric Bus During Vehicle-Following Scenario. IEEE Access, 2020, 8, 13887-13897.	2.6	21
30	Adaptive Model Predictive Control-Based Path Following Control for Four-Wheel Independent Drive Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14399-14412.	4.7	21
31	A swarm intelligence-based predictive regenerative braking control strategy for hybrid electric vehicle. Vehicle System Dynamics, 2022, 60, 973-997.	2.2	20
32	Identification of a driverâ€™s starting intention based on an artificial neural network for vehicles equipped with an automated manual transmission. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 1417-1429.	1.1	19
33	A Convolutional Neural Network-Based Driving Cycle Prediction Method for Plug-in Hybrid Electric Vehicles With Bus Route. IEEE Access, 2020, 8, 3255-3264.	2.6	17
34	A Path Following Lateral Control Scheme for Four-Wheel Independent Drive Autonomous Vehicle Using Sliding Mode Prediction Control. IEEE Transactions on Transportation Electrification, 2022, 8, 3192-3207.	5.3	17
35	An efficient optimal sizing strategy for a hybrid electric air-ground vehicle using adaptive spiral optimization algorithm. Journal of Power Sources, 2022, 517, 230704.	4.0	16
36	A Game-Learning-Based Smooth Path Planning Strategy for Intelligent Airâ€“Ground Vehicle Considering Mode Switching. IEEE Transactions on Transportation Electrification, 2022, 8, 3349-3366.	5.3	15

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37	Eventâ€triggered intelligent energy management strategy for plugâ€in hybrid electric buses based on vehicle cloud optimisation. IET Intelligent Transport Systems, 2020, 14, 1153-1162.	1.7	14
38	A Doubleâ€Deep Qâ€Networkâ€Based Energy Management Strategy for Hybrid Electric Vehicles under Variable Driving Cycles. Energy Technology, 2021, 9, 2000770.	1.8	12
39	Power reserve predictive control strategy for hybrid electric vehicle using recognition-based long short-term memory network. Journal of Power Sources, 2022, 520, 230865.	4.0	11
40	Model-Based Double Closed-Loop Coordinated Control Strategy for the Electro-Mechanical Transmission System of Heavy Power-Split HEVs. Automotive Innovation, 2021, 4, 44-55.	3.1	9
41	A multi-objective power flow optimization control strategy for a power split plug-in hybrid electric vehicle using game theory. Science China Technological Sciences, 2021, 64, 2718-2728.	2.0	8
42	An Adaptive Constrained Path Following Control Scheme for Autonomous Electric Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 3569-3578.	3.9	7
43	Online learning predictive power coordinated control strategy for off-road hybrid electric vehicles considering the dynamic response of engine generator set. Applied Energy, 2022, 323, 119592.	5.1	7
44	An enhanced hypotrochoid spiral optimization algorithm based intertwined optimal sizing and control strategy of a hybrid electric air-ground vehicle. Energy, 2022, 257, 124749.	4.5	4
45	City-Bus-Route Demand-based Efficient Coupling Driving Control for Parallel Plug-in Hybrid Electric Bus. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	1.9	3
46	An effective regenerative braking strategy based on the combination algorithm of particle swarm optimization and ant colony optimization for electrical vehicle. , 2019, , .		2
47	Application of Digital Twin Technology in Intelligent Building Energy Efficiency Management System. , 2021, , .		2
48	Structure Optimization and Generalized Dynamics Control of Hybrid Electric Vehicles. , 2018, , 207-244.		1
49	Selective Protection Configuration Strategy for Hybrid AC/DC Shipboard Power System. , 2018, , .		1
50	Power Flow Calculation of Shipboard DC Microgrid Power System. , 2019, , .		1
51	Ultrasonic microscopy method for coating and interface bonding quality detection. , 2019, , .		1
52	An Adaptive Model Predictive Control Strategy for Path Following of Autonomous Vehicles Based on Tire Cornering Stiffness Estimation. , 2021, , .		1
53	Radar and Camera Fusion based Moving Obstacle Tracking for Automated Vehicles. , 2021, , .		1
54	Surface acoustic wave propagation in the variable-thickness complex shape components. , 2016, , .		0

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55	Generalized Inverse Optimal Power Flow Calculation of Electrothermal Coupled Multi-energy Flow System Contained Ground Source Heat Pump. , 2019, , .		0
56	Ultrasonic microscopy system performance calibration technology. , 2019, , .		0
57	Trajectory Tracking Control of Four-Wheel Independent Drive Electric Vehicles*. , 2020, , .		0
58	A mass and road slope integrated estimation strategy based on the joint iteration of least square method and Sage-Husa adaptive filter for autonomous logistics vehicle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702110417.	1.1	0
59	A Power Distribution Strategy for Heavy Duty HEV with Series Hybrid Powertrain based on Model Predictive Control Method. IFAC-PapersOnLine, 2021, 54, 72-77.	0.5	0
60	Integrated optimal scheduling of direct current distribution systems and direct current driven HVAC in buildings. , 2022, , .		0