Hui Pang

List of Publications by Year
in descending order

48	1,026	471061 17	454577 30
papers	citations	h-index	g-index

50	50	50	677
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative study of energy management in parallel hybrid electric vehicles considering battery ageing. Energy, 2023, 264, 123219.	4.5	13
2	A practical trajectory tracking control of autonomous vehicles using linear time-varying MPC method. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 709-723.	1.1	25
3	Practical Nonlinear Model Predictive Controller Design for Trajectory Tracking of Unmanned Vehicles. Electronics (Switzerland), 2022, 11, 1110.	1.8	3
4	Dual-Layer Inductor Active Equalization Control for Series-Connected Lithium-Ion Batteries Based on SOC Estimation. Electronics (Switzerland), 2022, 11, 1169.	1.8	8
5	State-of-charge estimation for lithium-ion battery based on PNGV model and particle filter algorithm. Journal of Power Electronics, 2022, 22, 1154-1164.	0.9	12
6	Lowâ€complexity <scp>state of charge</scp> and anode potential prediction for lithiumâ€ion batteries using a simplified electrochemical modelâ€based observer under variable load condition. International Journal of Energy Research, 2022, 46, 11834-11848.	2.2	46
7	PI Observer-Based Fault-Tolerant Tracking Controller for Automobile Active Suspensions. IEEE Access, 2022, 10, 47203-47218.	2.6	2
8	Study on Co-Estimation of SoC and SoH for Second-Use Lithium-Ion Power Batteries. Electronics (Switzerland), 2022, 11, 1789.	1.8	7
9	Adaptive energy management in automated hybrid electric vehicles with flexible torque request. Energy, 2021, 214, 118873.	4.5	48
10	Evaluation and observability analysis of an improved reduced-order electrochemical model for lithium-ion battery. Electrochimica Acta, 2021, 368, 137604.	2.6	59
11	On co-estimation and validation of vehicle driving states by a UKF-based approach. Mechanical Sciences, 2021, 12, 19-30.	0.5	1
12	Adaptive backstepping robust tracking control for stabilizing lateral dynamics of electric vehicles with uncertain parameters and external disturbances. Control Engineering Practice, 2021, 110, 104781.	3.2	21
13	Online SOC Estimation Based on Simplified Electrochemical Model for Lithium-Ion Batteries Considering Current Bias. Energies, 2021, 14, 5265.	1.6	31
14	A Comprehensive Physics-Based Equivalent-Circuit Model and State of Charge Estimation for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 090552.	1.3	15
15	A novel extended Kalman filter-based battery internal and surface temperature estimation based on an improved electro-thermal model. Journal of Energy Storage, 2021, 41, 102854.	3.9	39
16	Computationally Efficient Energy Management for Hybrid Electric Vehicles Using Model Predictive Control and Vehicle-to-Vehicle Communication. IEEE Transactions on Vehicular Technology, 2021, 70, 237-250.	3.9	34
17	A robust fault-tolerant control for active suspensions subject to Markov type actuator faults. , 2021, , .		1
18	Co-Estimation and Validation of Driving States of a 3-DOFs Vehicle Model Based on UKF Approach. , 2021, , .		2

#	Article	IF	Citations
19	Energy Management Strategies for Hybrid Electric Vehicles: Review, Classification, Comparison, and Outlook. Energies, 2020, 13, 3352.	1.6	96
20	Computationally Efficient Energy Management in Hybrid Electric Vehicles Based on Approximate Pontryaginâ€™s Minimum Principle. World Electric Vehicle Journal, 2020, 11, 65.	1.6	5
21	Design of a Sliding Mode Observer-Based Fault Tolerant Controller for Automobile Active Suspensions With Parameter Uncertainties and Sensor Faults. IEEE Access, 2020, 8, 186963-186975.	2.6	7
22	A Hybrid Fault-Tolerant Control for Nonlinear Active Suspension Systems Subjected to Actuator Faults and Road Disturbances. Complexity, 2020, 2020, 1-14.	0.9	6
23	An adaptive sliding modeâ€“based fault-tolerant control design for half-vehicle active suspensions using Tâ€“S fuzzy approach. JVC/Journal of Vibration and Control, 2020, 26, 1411-1424.	1.5	15
24	An enhanced temperatureâ€dependent model and stateâ€ofâ€charge estimation for a Liâ€ion battery using extended Kalman filter. International Journal of Energy Research, 2020, 44, 7254-7267.	2.2	35
25	Robust Mixed H2/Hâˆž State Feedback Controller Development for Uncertain Automobile Suspensions with Input Delay. Processes, 2020, 8, 359.	1.3	1
26	Adaptive backsteppingâ€based control design for uncertain nonlinear active suspension system with input delay. International Journal of Robust and Nonlinear Control, 2019, 29, 5781-5800.	2.1	41
27	Parameter identification and state-of-charge estimation approach for enhanced lithiumâ€“ion battery equivalent circuit model considering influence of ambient temperatures*. Chinese Physics B, 2019, 28, 108201.	0.7	12
28	Robust state-feedback control design for active suspension system with time-varying input delay and wheelbase preview information. Journal of the Franklin Institute, 2019, 356, 1899-1923.	1.9	28
29	Design of a coordinated adaptive backstepping tracking control for nonlinear uncertain active suspension system. Applied Mathematical Modelling, 2019, 76, 479-494.	2.2	35
30	Parameter identification and systematic validation of an enhanced single-particle model with aging degradation physics for Li-ion batteries. Electrochimica Acta, 2019, 307, 474-487.	2.6	64
31	Predictive Equivalent Consumption Minimization Strategy for Hybrid Electric Vehicles. , 2019, , .		3
32	Adaptive backstepping-based tracking control design for nonlinear active suspension system with parameter uncertainties and safety constraints. ISA Transactions, 2019, 88, 23-36.	3.1	73
33	On Enhanced Fuzzy Sliding-Mode Controller and Its Chattering Suppression for Vehicle Semi-ActiveÂSuspension System. , 2018, , .		10
34	Design of an Improved Robust <tex>H_{infty}</tex> Controller for Active Suspension with Input Delays. , 2018, , .		0
35	Optimal Design of Fault-Tolerant Controller for an Electric Power Steering System with Sensor Failures Using Genetic Algorithm. Shock and Vibration, 2018, 2018, 1-10.	0.3	2
36	An Observer-Based Active Fault Tolerant Controller for Vehicle Suspension System. Applied Sciences (Switzerland), 2018, 8, 2568.	1.3	7

#	Article	IF	Citations
37	Experimental Data-Driven Parameter Identification and State of Charge Estimation for a Li-Ion Battery Equivalent Circuit Model. Energies, 2018, 11, 1033.	1.6	11
38	Variable universe fuzzy control for vehicle semi-active suspension system with MR damper combining fuzzy neural network and particle swarm optimization. Neurocomputing, 2018, 306, 130-140.	3.5	118
39	Design of LQG Controller for Active Suspension without Considering Road Input Signals. Shock and Vibration, 2017, 2017, 1-13.	0.3	17
40	Enhanced variable-universe fuzzy control for vehicle semi-active suspension systems. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2999-3006.	0.8	7
41	Stability analysis and fuzzy smith compensation control for semi-active suspension systems with time delay. Journal of Intelligent and Fuzzy Systems, 2015, 29, 2513-2525.	0.8	24
42	Research and Application of Time Workflow Model Based on Timing Constraint Petri Nets. Procedia Engineering, 2011, 15, 1371-1376.	1.2	2
43	Finite Element Analysis of Mechanical Characteristics on the Composite Rubber Suspension of Heavy Vehicle. Applied Mechanics and Materials, 2011, 121-126, 1702-1706.	0.2	1
44	Ride Comfort Optimization and Test Research on an 8Ã—4 Heavy Truck. Noise and Vibration Worldwide, 2010, 41, 65-71.	0.4	4
45	Stiffness Matching and Ride Comfort Optimization of Heavy Vehicle's Suspension Based on ADAMS. Applied Mechanics and Materials, 2010, 44-47, 1734-1738.	0.2	5
46	Simplification Rules and Linear Temporal Inference of Workflow Models Based on Fuzzy-Timing Colored Petri Nets. , 2008, , .		0
47	Multilevel Minimum Cross Entropy Threshold Selection Based on Quantum Particle Swarm Optimization. , 2007, , .		30
48	Analysis on the characteristics of compound-split mode powertrain system. IOP Conference Series: Materials Science and Engineering, 0, 612, 042043.	0.3	0