Hong Chen

List of Publications by Year
in descending order

491 papers	11,048 citations	34105 52 h-index	51608 86 g-index
493 all docs	493 docs citations	493 times ranked	7137 citing authors

#	Article	IF	Citations
1	A Quasi-Infinite Horizon Nonlinear Model Predictive Control Scheme with Stabilityâ—â—This paper was not presented at any IFAC meeting. This paper was accepted for publication in revised form by Associate Editor W. Bequette under the direction of Editor Prof. S. Skogestad.. Automatica, 1998, 34, 1205-1217.	5.0	1,228
2	Constrained H/sub /spl infin// control of active suspensions: an LMI approach. IEEE Transactions on Control Systems Technology, 2005, 13, 412-421.	5.2	266
3	Gear ratio optimization and shift control of 2-speed I-AMT in electric vehicle. Mechanical Systems and Signal Processing, 2015, 50-51, 615-631.	8.0	177
4	Simultaneous Trajectory Planning and Tracking Using an MPC Method for Cyber-Physical Systems: A Case Study of Obstacle Avoidance for an Intelligent Vehicle. IEEE Transactions on Industrial Informatics, 2018, 14, 4273-4283.	11.3	170
5	Optimal Energy Management for HEVs in Eco-Driving Applications Using Bi-Level MPC. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2153-2162.	8.0	163
6	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems. Systems and Control Letters, 2013, 62, 194-200.	2.3	154
7	MPC-based yaw stability control in in-wheel-motored EV via active front steering and motor torque distribution. Mechatronics, 2016, 38, 103-114.	3.3	141
8	Equalization of Lithium-Ion Battery Pack Based on Fuzzy Logic Control in Electric Vehicle. IEEE Transactions on Industrial Electronics, 2018, 65, 6762-6771.	7.9	138
9	Model predictive path following control for autonomous cars considering a measurable disturbance: Implementation, testing, and verification. Mechanical Systems and Signal Processing, 2019, 118, 41-60.	8.0	136
10	A Survey on Trajectory-Prediction Methods for Autonomous Driving. IEEE Transactions on Intelligent Vehicles, 2022, 7, 652-674.	12.7	135
11	Fast Nonlinear Model Predictive Control on FPGA Using Particle Swarm Optimization. IEEE Transactions on Industrial Electronics, 2016, 63, 310-321.	7.9	119
12	(EMIm)$^{+}$(PF$_6$)$^{-}$ Ionic Liquid Unlocks Optimum Energy/Power Density for Architecture of Nanocarbonâ€Based Dualâ€Ion Battery. Advanced Energy Materials, 2016, 6, 1601378.	19.5	116
13	Vehicle dynamic state estimation: state of the art schemes and perspectives. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 418-431.	13.1	116
14	Torque optimization control for electric vehicles with four in-wheel motors equipped with regenerative braking system. Mechatronics, 2019, 57, 95-108.	3.3	116
15	One-Step Synthesis of a Self-Supported Copper Phosphide Nanobush for Overall Water Splitting. ACS Omega, 2016, 1, 1367-1373.	3.5	113
16	A New Delay-Compensation Scheme for Networked Control Systems in Controller Area Networks. IEEE Transactions on Industrial Electronics, 2018, 65, 7239-7247.	7.9	113
17	Distributed Model Predictive Load Frequency Control of the Multi-Area Power System After Deregulation. IEEE Transactions on Industrial Electronics, 2017, 64, 5129-5139.	7.9	112
18	Distributed model predictive load frequency control of multi-area interconnected power system. International Journal of Electrical Power and Energy Systems, 2014, 62, 289-298.	5.5	105

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19	Controlling phase transition for single-layer MTe_2 (M = Mo and W): modulation of the potential barrier under strain. Physical Chemistry Chemical Physics, 2016, 18, 4086-4094.	2.8	105
20	Implementation of EKF for Vehicle Velocities Estimation on FPGA. IEEE Transactions on Industrial Electronics, 2013, 60, 3823-3835.	7.9	103
21	Design of Clutch-Slip Controller for Automatic Transmission Using Backstepping. IEEE/ASME Transactions on Mechatronics, 2011, 16, 498-508.	5.8	98
22	Remaining Useful Life Prediction of Lithium-Ion Battery Based on Gaussâ€"Hermite Particle Filter. IEEE Transactions on Control Systems Technology, 2019, 27, 1788-1795.	5.2	97
23	Real-Time Predictive Cruise Control for Eco-Driving Taking into Account Traffic Constraints. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2858-2868.	8.0	96
24	Design of a Nonlinear Observer for Vehicle Velocity Estimation and Experiments. IEEE Transactions on Control Systems Technology, 2011, 19, 664-672.	5.2	95
25	Inherent robustness properties of quasi-infinite horizon nonlinear model predictive control. Automatica, 2014, 50, 2269-2280.	5.0	95
26	Nonlinear Model Predictive Lateral Stability Control of Active Chassis for Intelligent Vehicles and Its FPGA Implementation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2-13.	9.3	91
27	A novel method for state of health estimation of lithium-ion batteries based on improved LSTM and health indicators extraction. Energy, 2022, 251, 123973.	8.8	84
28	A Switched Control Strategy for Antilock Braking System With On/Off Valves. IEEE Transactions on Vehicular Technology, 2011, 60, 1470-1484.	6.3	83
29	Nonlinear model predictive control for path following problems. International Journal of Robust and Nonlinear Control, 2015, 25, 1168-1182.	3.7	83
30	Electro-hydraulic damper for energy harvesting suspension: Modeling, prototyping and experimental validation. Applied Energy, 2017, 199, 1-12.	10.1	82
31	Dual-envelop-oriented moving horizon path tracking control for fully automated vehicles. Mechatronics, 2018, 50, 422-433.	3.3	81
32	Moving horizon H_∞ control with performance adaptation for constrained linear systems. Automatica, 2006, 42, 1033-1040.	5.0	80
33	Near-Optimal Tracking Control of Mobile Robots Via Receding-Horizon Dual Heuristic Programming. IEEE Transactions on Cybernetics, 2016, 46, 2484-2496.	9.5	80
34	Energy-efficient control of electric vehicles based on linear quadratic regulator and phase plane analysis. Applied Energy, 2018, 213, 639-657.	10.1	79
35	Nonlinear MPC-based slip control for electric vehicles with vehicle safety constraints. Mechatronics, 2016, 38, 1-15.	3.3	77
36	Integrated control of in-wheel motor electric vehicles using a triple-step nonlinear method. Journal of the Franklin Institute, 2015, 352, 519-540.	3.4	74

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37	Moving Horizon ${\cal H}_{\infty}$ Tracking Control of Wheeled Mobile Robots With Actuator Saturation. IEEE Transactions on Control Systems Technology, 2009, 17, 449-457.	5.2	73
38	The effects of sintering temperature of MnCr2O4 nanocomposite on the NO2 sensing property for YSZ-based potentiometric sensor. Sensors and Actuators B: Chemical, 2013, 177, 397-403.	7.8	73
39	Position Control of Electric Clutch Actuator Using a Triple-Step Nonlinear Method. IEEE Transactions on Industrial Electronics, 2014, 61, 6995-7003.	7.9	72
40	Oxygen Vacancies Boost γ-Bi$_2$O$_3$ as a High-Performance Electrode for Rechargeable Aqueous Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2103-2111.	8.0	72
41	Switching-Based Stochastic Model Predictive Control Approach for Modeling Driver Steering Skill. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 365-375.	8.0	71
42	An Adaptive Backstepping Sliding Mode Controller to Improve Vehicle Maneuverability and Stability via Torque Vectoring Control. IEEE Transactions on Vehicular Technology, 2020, 69, 2598-2612.	6.3	71
43	Personalized Adaptive Cruise Control Based on Online Driving Style Recognition Technology and Model Predictive Control. IEEE Transactions on Vehicular Technology, 2020, 69, 12482-12496.	6.3	70
44	Stability control of electric vehicles with in-wheel motors by considering tire slip energy. Mechanical Systems and Signal Processing, 2019, 118, 340-359.	8.0	69
45	Predictive Cruise Control Using High-Definition Map and Real Vehicle Implementation. IEEE Transactions on Vehicular Technology, 2018, 67, 11377-11389.	6.3	65
46	Fractional modeling and SOC estimation of lithium-ion battery. IEEE/CAA Journal of Automatica Sinica, 2016, 3, 281-287.	13.1	60
47	A Distributed Adaptive Triple-Step Nonlinear Control for a Connected Automated Vehicle Platoon With Dynamic Uncertainty. IEEE Internet of Things Journal, 2020, 7, 3861-3871.	8.7	59
48	A Review of Estimation for Vehicle Tire-Road Interactions Toward Automated Driving. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 14-30.	9.3	58
49	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO$_2$ for Improved Hydrogen Production Efficiency. ChemSusChem, 2019, 12, 1000-1010.	6.8	58
50	Model predictive control allocation for stability improvement of four-wheel drive electric vehicles in critical driving condition. IET Control Theory and Applications, 2015, 9, 2688-2696.	2.1	57
51	A Reduced-Order Nonlinear Clutch Pressure Observer for Automatic Transmission. IEEE Transactions on Control Systems Technology, 2010, 18, 446-453.	5.2	56
52	Disturbance attenuation control of active suspension with non-linear actuator dynamics. IET Control Theory and Applications, 2011, 5, 112.	2.1	53
53	Triple-step method to design non-linear controller for rail pressure of gasoline direct injection engines. IET Control Theory and Applications, 2014, 8, 948-959.	2.1	53
54	Improving Photocatalytic Performance from Bi2WO6@MoS2/graphene Hybrids via Gradual Charge Transferred Pathway. Scientific Reports, 2017, 7, 3637.	3.3	53

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55	Data-Driven Predictive Gearshift Control for Dual-Clutch Transmissions and FPGA Implementation. IEEE Transactions on Industrial Electronics, 2015, 62, 599-610.	7.9	52
56	Modular Integrated Longitudinal, Lateral, and Vertical Vehicle Stability Control for Distributed Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 1327-1338.	6.3	50
57	Design and analysis of a model predictive controller for active queue management. ISA Transactions, 2012, 51, 120-131.	5.7	49
58	Optimal Trajectory Planning of Motor Torque and Clutch Slip Speed for Gear Shift of a Two-Speed Electric Vehicle. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	49
59	An Analytical Approach to Improve Vehicle Maneuverability via Torque Vectoring Control: Theoretical Study and Experimental Validation. IEEE Transactions on Vehicular Technology, 2019, 68, 4514-4526.	6.3	49
60	Model predictive control of constrained LPV systems. International Journal of Control, 2012, 85, 671-683.	1.9	48
61	Modified MUSIC Algorithm for DOA Estimation With Nyström Approximation. IEEE Sensors Journal, 2016, 16, 4673-4674.	4.7	48
62	Learning-Based Predictive Control for Discrete-Time Nonlinear Systems With Stochastic Disturbances. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6202-6213.	11.3	48
63	Nonlinear Coordinated Motion Control of Road Vehicles After a Tire Blowout. IEEE Transactions on Control Systems Technology, 2016, 24, 956-970.	5.2	47
64	A comparison study of battery size optimization and an energy management strategy for FCHEVs based on dynamic programming and convex programming. International Journal of Hydrogen Energy, 2020, 45, 21858-21872.	7.1	47
65	A Review of Cyber–Physical Security for Photovoltaic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4879-4901.	5.4	47
66	A decentralized fuzzy inference method for solving the two-dimensional steady inverse heat conduction problem of estimating boundary condition. International Journal of Heat and Mass Transfer, 2011, 54, 2782-2788.	4.8	46
67	Carbon–Based Dual–Ion Battery with Enhanced Capacity and Cycling Stability. ChemElectroChem, 2018, 5, 3612-3618.	3.4	46
68	Fluorescence Guided Sentinel Lymph Node Mapping: From Current Molecular Probes to Future Multimodal Nanoprobes. Bioconjugate Chemistry, 2019, 30, 13-28.	3.6	46
69	Challenges and developments of automotive fuel cell hybrid power system and control. Science China Information Sciences, 2019, 62, 1.	4.3	45
70	Oxygen excess ratio control of PEM fuel cells using observer-based nonlinear triple-step controller. International Journal of Hydrogen Energy, 2020, 45, 29705-29717.	7.1	45
71	Highly sensitive mixed-potential-type NO2 sensor with YSZ processed using femtosecond laser direct writing technology. Sensors and Actuators B: Chemical, 2014, 198, 110-113.	7.8	44
72	On-line Optimal Control of the Gearshift Command for Multispeed Electric Vehicles. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1519-1530.	5.8	44

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73	An Energy-Saving Torque Vectoring Control Strategy for Electric Vehicles Considering Handling Stability Under Extreme Conditions. IEEE Transactions on Vehicular Technology, 2020, 69, 10787-10796.	6.3	44
74	Observer-based clutch disengagement control during gear shift process of automated manual transmission. Vehicle System Dynamics, 2011, 49, 685-701.	3.7	43
75	Low-Speed Control for Permanent-Magnet DC Torque Motor Using Observer-Based Nonlinear Triple-Step Controller. IEEE Transactions on Industrial Electronics, 2017, 64, 3286-3296.	7.9	42
76	Fuzzy estimation for temperature distribution of furnace inner surface. International Journal of Thermal Sciences, 2012, 51, 84-90.	4.9	40
77	Hazard-evaluation-oriented moving horizon parallel steering control for driver-automation collaboration during automated driving. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 1062-1073.	13.1	40
78	Design of a reduced‐order non‐linear observer for vehicle velocities estimation. IET Control Theory and Applications, 2013, 7, 2056-2068.	2.1	38
79	Stability of finite horizon model predictive control with incremental input constraints. Automatica, 2017, 79, 265-272.	5.0	38
80	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. Materials Today, 2022, 52, 188-206.	14.2	38
81	Nonlinear feedforward–feedback control of clutch-to-clutch shift technique. Vehicle System Dynamics, 2011, 49, 1895-1911.	3.7	37
82	Automotive Control: the State of the Art and Perspective. Zidonghua Xuebao/Acta Automatica Sinica, 2013, 39, 322-346.	1.5	37
83	Data-Driven Design of Parity Space-Based FDI System for AMT Vehicles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 405-415.	5.8	37
84	A Computationally Efficient and Hierarchical Control Strategy for Velocity Optimization of On-Road Vehicles. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 31-41.	9.3	37
85	Integrated Co_3O_4/carbon fiber paper for high-performance anode of dual-ion battery. Journal of Energy Chemistry, 2019, 37, 7-12.	12.9	37
86	Design of nonlinear shaft torque observer for trucks with Automated Manual Transmission. Mechatronics, 2011, 21, 1034-1042.	3.3	36
87	A nonlinear observer approach of SOC estimation based on hysteresis model for lithium-ion battery. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 195-204.	13.1	36
88	Systematic Assessment of Cyber-Physical Security of Energy Management System for Connected and Automated Electric Vehicles. IEEE Transactions on Industrial Informatics, 2021, 17, 3335-3347.	11.3	36
89	A computationally attractive nonlinear predictive control scheme with guaranteed stability for stable systems. Journal of Process Control, 1998, 8, 475-485.	3.3	34
90	Integrated MXene&CoFe$_2$O$_4$ electrodes with multi-level interfacial architectures for synergistic lithium-ion storage. Nanoscale, 2019, 11, 15037-15042.	5.6	33

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91	Coordinated longitudinal and lateral vehicle stability control based on the combined-slip tire model in the MPC framework. Mechanical Systems and Signal Processing, 2021, 161, 107947.	8.0	33
92	Output-feedback triple-step coordinated control for path following of autonomous ground vehicles. Mechanical Systems and Signal Processing, 2019, 116, 146-159.	8.0	32
93	Core temperature estimation of lithium-ion battery for EVs using Kalman filter. Applied Thermal Engineering, 2020, 168, 114816.	6.0	32
94	Cyberâ€"Physical Security of Powertrain Systems in Modern Electric Vehicles: Vulnerabilities, Challenges, and Future Visions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4639-4657.	5.4	32
95	Design of a Data-Driven Predictive Controller for Start-up Process of AMT Vehicles. IEEE Transactions on Neural Networks, 2011, 22, 2201-2212.	4.2	31
96	Field programmable gate array/system on a programmable chip-based implementation of model predictive controller. IET Control Theory and Applications, 2012, 6, 1055-1063.	2.1	31
97	Fault-Tolerant Control of Electric Ground Vehicles Using a Triple-Step Nonlinear Approach. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1775-1786.	5.8	31
98	Adaptive Decision-Making for Automated Vehicles Under Roundabout Scenarios Using Optimization Embedded Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5526-5538.	11.3	31
99	Nonlinear gearshifts control of dual-clutch transmissions during inertia phase. ISA Transactions, 2014, 53, 1320-1331.	5.7	30
100	Vulnerability Assessments of Electric Drive Systems Due to Sensor Data Integrity Attacks. IEEE Transactions on Industrial Informatics, 2020, 16, 3301-3310.	11.3	30
101	Online Shift Schedule Optimization of 2-Speed Electric Vehicle Using Moving Horizon Strategy. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2858-2869.	5.8	29
102	Road tire friction coefficient estimation for four wheel drive electric vehicle based on moving optimal estimation strategy. Mechanical Systems and Signal Processing, 2020, 139, 106416.	8.0	29
103	A decentralized fuzzy inference method for the inverse geometry heat conduction problem. Applied Thermal Engineering, 2016, 106, 109-116.	6.0	28
104	A novel integrated approach for path following and directional stability control of road vehicles after a tire blow-out. Mechanical Systems and Signal Processing, 2017, 93, 431-444.	8.0	28
105	MPC-based path tracking controller design for autonomous ground vehicles. , 2017, , .		28
106	Nonlinear model predictive controller design based on learning model for turbocharged gasoline engine of passenger vehicle. Mechanical Systems and Signal Processing, 2018, 109, 74-88.	8.0	28
107	MPC-Based Slip Ratio Control for Electric Vehicle Considering Road Roughness. IEEE Access, 2019, 7, 52405-52413.	4.2	28
108	Fault-tolerant control for in-wheel-motor-driven electric ground vehicles in discrete time. Mechanical Systems and Signal Processing, 2019, 121, 441-454.	8.0	28

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109	Deterministic Promotion Reinforcement Learning Applied to Longitudinal Velocity Control for Automated Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 338-348.	6.3	28
110	Disturbance observer based control for four wheel steering vehicles with model reference. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 1121-1127.	13.1	27
111	A stability-guaranteed and energy-conserving torque distribution strategy for electric vehicles under extreme conditions. Applied Energy, 2020, 259, 114162.	10.1	26
112	Modeling and Control of the Fuel Injection System for Rail Pressure Regulation in GDI Engine. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1501-1513.	5.8	25
113	MPC-Based Regional Path Tracking Controller Design for Autonomous Ground Vehicles. , 2015, , .		25
114	Constrained H_∞ control for road vehicles after a tire blow-out. Mechatronics, 2015, 30, 371-382.	3.3	25
115	Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. IEEE Access, 2019, 7, 66410-66422.	4.2	25
116	Model predictive control for autonomous ground vehicles: a review. Autonomous Intelligent Systems, 2021, 1, 1.	3.1	25
117	A Feasible Moving Horizon ${\cal H}_{\infty}$ Control Scheme for Constrained Uncertain Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 343-348.	5.7	24
118	Adaptive Robust Triple-Step Control for Compensating Cogging Torque and Model Uncertainty in a DC Motor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2396-2405.	9.3	24
119	Robust H_∞ control for constrained discrete-time piecewise affine systems with time-varying parametric uncertainties. IET Control Theory and Applications, 2009, 3, 1132-1144.	2.1	23
120	Towards unlocking high-performance of supercapacitors: From layered transition-metal hydroxide electrode to redox electrolyte. Science China Technological Sciences, 2015, 58, 1779-1798.	4.0	23
121	A fast algorithm for nonlinear model predictive control applied to HEV energy management systems. Science China Information Sciences, 2017, 60, 1.	4.3	23
122	A Real-Time NMPC Strategy for Electric Vehicle Stability Improvement Combining Torque Vectoring With Rear-Wheel Steering. IEEE Transactions on Transportation Electrification, 2022, 8, 3825-3835.	7.8	23
123	Stabilizing model predictive control for LPV systems subject to constraints with parameter-dependent control law. , 2009, , .		22
124	Design and Experimental Verification of Real-Time Nonlinear Predictive Controller for Improving the Stability of Production Vehicles. IEEE Transactions on Control Systems Technology, 2021, 29, 2206-2213.	5.2	22
125	A comprehensive study of speed prediction in transportation system: From vehicle to traffic. IScience, 2022, 25, 103909.	4.1	22
126	Gear Shifting Control for Pure Electric Vehicle with Inverse-AMT. Applied Mechanics and Materials, 0, 190-191, 1286-1289.	0.2	21

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127	Observer-based feedback control during torque phase of clutch-to-clutch shift process. International Journal of Vehicle Design, 2012, 58, 93.	0.3	21
128	A regenerative braking system for electric vehicle with four in-wheel motors based on fuzzy control. , 2017, , .		21
129	Self-Learning Optimal Cruise Control Based on Individual Car-Following Style. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6622-6633.	8.0	21
130	Model predictive control for integrated longitudinal and lateral stability of electric vehicles with in‐wheel motors. IET Control Theory and Applications, 2020, 14, 2741-2751.	2.1	21
131	Design and Experimental Evaluations on Energy-Efficient Control for 4WIMD-EVs Considering Tire Slip Energy. IEEE Transactions on Vehicular Technology, 2020, 69, 14631-14644.	6.3	20
132	Optimal car-following control for intelligent vehicles using online road-slope approximation method. Science China Information Sciences, 2021, 64, 1.	4.3	20
133	Real-Time Longitudinal and Lateral State Estimation of Preceding Vehicle Based on Moving Horizon Estimation. IEEE Transactions on Vehicular Technology, 2021, 70, 8755-8768.	6.3	20
134	Two-Degree-of-Freedom Controller Design for Clutch Slip Control of Automatic Transmission. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 1, 430-438.	0.4	19
135	Improved optimal controller for start-up of amt trucks in consideration of driver's intention. International Journal of Automotive Technology, 2013, 14, 213-220.	1.4	19
136	A regenerative braking control strategy for electric vehicle with four in-wheel motors. , 2016, , .		19
137	Regional path moving horizon tracking controller design for autonomous ground vehicles. Science China Information Sciences, 2017, 60, 1.	4.3	19
138	Morphology dependence of electrochemical properties on palladium nanocrystals. Journal of Colloid and Interface Science, 2017, 490, 190-196.	9.4	19
139	Trajectory planning and tracking control of a ground mobile robot:A reconstruction approach towards space vehicle. ISA Transactions, 2019, 87, 116-128.	5.7	19
140	Longitudinal and lateral control of autonomous vehicles in multi‐vehicle driving environments. IET Intelligent Transport Systems, 2020, 14, 924-935.	3.0	19
141	A Mechatronic Brake Booster for Electric Vehicles: Design, Control, and Experiment. IEEE Transactions on Vehicular Technology, 2020, 69, 7040-7053.	6.3	19
142	Hierarchical Energy-Efficient Control for CAVs at Multiple Signalized Intersections Considering Queue Effects. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11643-11653.	8.0	19
143	TM atoms on B/N doped defective graphene as a catalyst for oxygen reduction reaction: a theoretical study. RSC Advances, 2015, 5, 82804-82812.	3.6	18
144	Electrochemical modeling and parameter identification based on bacterial foraging optimization algorithm for lithium-ion batteries. Journal of Applied Electrochemistry, 2016, 46, 1119-1131.	2.9	18

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145	MPC for Path Following Problems of Wheeled Mobile Robots. IFAC-PapersOnLine, 2018, 51, 247-252.	0.9	18
146	State of charge and state of health estimation for lithium-ion battery through dual sliding mode observer based on AMESim-Simulink co-simulation. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	18
147	Control‐oriented modeling and robust nonlinear triple‐step controller design for an air‐feed system for polymer electrolyte membrane fuel cells. Asian Journal of Control, 2019, 21, 1811-1823.	3.0	18
148	Cyber-Physical Security of Electric Vehicles With Four Motor Drives. IEEE Transactions on Power Electronics, 2021, 36, 4463-4477.	7.9	18
149	Real-Time Integrated Power and Thermal Management of Connected HEVs Based on Hierarchical Model Predictive Control. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1271-1282.	5.8	18
150	Cyberattack Detection for Electric Vehicles Using Physics-Guided Machine Learning. IEEE Transactions on Transportation Electrification, 2021, 7, 2010-2022.	7.8	18
151	Vehicle Trajectory Prediction Method Coupled With Ego Vehicle Motion Trend Under Dual Attention Mechanism. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-16.	4.7	18
152	Human-Oriented Online Driving Authority Optimization for Driver-Automation Shared Steering Control. IEEE Transactions on Intelligent Vehicles, 2022, 7, 863-872.	12.7	18
153	Inverse Estimation for Heat Flux Distribution at the Metal-Mold Interface Using Fuzzy Inference. Journal of Heat Transfer, 2011, 133, .	2.1	17
154	Driver-automation shared steering control for highly automated vehicles. Science China Information Sciences, 2020, 63, 1.	4.3	17
155	Cyber–Physical Security of Energy-Efficient Powertrain System in Hybrid Electric Vehicles Against Sophisticated Cyberattacks. IEEE Transactions on Transportation Electrification, 2021, 7, 636-648.	7.8	17
156	Model Predictive Control of AMT clutch during start-up process. , 2011, , .		16
157	Moving horizon ℓ_∞ control of variable speed wind turbines with actuator saturation. IET Renewable Power Generation, 2014, 8, 498-508.	3.1	16
158	Model predictive control oriented shared steering control for intelligent vehicles. , 2017, , .		16
159	Integrated design of control allocation and triple-step control for over-actuated electric ground vehicles with actuator faults. Journal of the Franklin Institute, 2020, 357, 3150-3167.	3.4	16
160	Human-Centered Torque Vectoring Control for Distributed Drive Electric Vehicle Considering Driving Characteristics. IEEE Transactions on Vehicular Technology, 2021, 70, 7386-7399.	6.3	16
161	Air flow rate and pressure control approach for the air supply subsystems in PEMFCs. ISA Transactions, 2022, 128, 624-634.	5.7	16
162	Estimation of Vehicle Yaw Rate and Side Slip Angle using Moving Horizon Strategy. , 2006, , .		15

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163	Dynamics and control of gear upshift in automated manual transmissions. International Journal of Vehicle Design, 2013, 63, 61.	0.3	15
164	The Seamless Gear Shifting Control for Pure Electric Vehicle with 2-speed Inverse-AMT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 507-511.	0.4	15
165	Estimating the State of Charge of Lithium-ion Battery based on Sliding Mode Observer. IFAC-PapersOnLine, 2016, 49, 54-61.	0.9	15
166	A triple‐step non‐linear control for path following of autonomous vehicles with uncertain kinematics and dynamics. IET Control Theory and Applications, 2017, 11, 3381-3387.	2.1	15
167	Sliding-mode control of four wheel steering systems. , 2017, , .		15
168	Active Thermal Control of a Battery Pack Under Elevated Temperatures. IFAC-PapersOnLine, 2018, 51, 262-267.	0.9	15
169	Quantitative identification of three-dimensional subsurface defect based on the fuzzy inference of thermal process. International Journal of Heat and Mass Transfer, 2019, 133, 903-911.	4.8	15
170	Coordinated Lateral and Longitudinal Vehicle-Following Control of Connected and Automated Vehicles Considering Nonlinear Dynamics. , 2020, 4, 1054-1059.		15
171	Loop-Closure Detection With a Multiresolution Point Cloud Histogram Mode in Lidar Odometry and Mapping for Intelligent Vehicles. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1307-1317.	5.8	15
172	Integrated Longitudinal and Lateral Vehicle Stability Control for Extreme Conditions With Safety Dynamic Requirements Analysis. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19285-19298.	8.0	15
173	An improved moving horizon control scheme through Lagrange duality. International Journal of Control, 2006, 79, 239-248.	1.9	14
174	Predictive safety control for road vehicles after a tire blowout. Science China Information Sciences, 2018, 61, 1.	4.3	14
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