Hong Chen

List of Publications by Year in Descending Order

392 papers	**6,760** citations	**42** h-index	**69** g-index
493 ext. papers	**8,760** ext. citations	**4.5** avg, IF	**6.59** L-index

#	Paper	IF	Citations
392	Fault-tolerant control through dynamic surface triple-step approach for proton exchange membrane fuel cell air supply systems. *International Journal of Hydrogen Energy*, **2022**, 47, 1804-1819	6.7	
391	A comprehensive study of speed prediction in transportation system: From vehicle to traffic.. *IScience*, **2022**, 25, 103909	6.1	0
390	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. *Materials Today*, **2022**,	21.8	5
389	MPC-based strategy for longitudinal and lateral stabilization of a vehicle under extreme conditions. *Science China Information Sciences*, **2022**, 65, 1	3.4	1
388	Torque allocation of four-wheel drive EVs considering tire slip energy. *Science China Information Sciences*, **2022**, 65, 1	3.4	4
387	A Real-time NMPC Strategy for Electric Vehicle Stability Improvement Combining Torque Vectoring with Rear-wheel Steering. *IEEE Transactions on Transportation Electrification*, **2022**, 1-1	7.6	1
386	Vehicle Trajectory Prediction Method Coupled with Ego Vehicle Motion Trend under Dual Attention Mechanism. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	2
385	Human-Oriented Online Driving Authority Optimization for Driver-Automation Shared Steering Control. *IEEE Transactions on Intelligent Vehicles*, **2022**, 1-1	5	1
384	Integrated Longitudinal and Lateral Vehicle Stability Control for Extreme Conditions With Safety Dynamic Requirements Analysis. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-14	6.1	1
383	Robust Learning-Based Predictive Control for Discrete-Time Nonlinear Systems With Unknown Dynamics and State Constraints. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-14	7.3	0
382	Non-destructive Storage Time Prediction of Newhall Navel Oranges Based on the Characteristics of Rind Oil Glands.. *Frontiers in Plant Science*, **2022**, 13, 811630	6.2	
381	Topology optimization and the evolution trends of two-speed transmission of EVs. *Renewable and Sustainable Energy Reviews*, **2022**, 161, 112390	16.2	1
380	A Survey on Trajectory-Prediction Methods for Autonomous Driving. *IEEE Transactions on Intelligent Vehicles*, **2022**, 1-1	5	4
379	A novel method for state of health estimation of lithium-ion batteries based on improved LSTM and health indicators extraction. *Energy*, **2022**, 251, 123973	7.9	2
378	Effect of steam blanching on peelability and quality of Blanco. *Journal of Food Science and Technology*, **2021**, 58, 3790-3797	3.3	1
377	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	10.3	6
376	Benchmark Study on Real-time Energy Optimization of HEVs under Connected Environment. *IFAC-PapersOnLine*, **2021**, 54, 356-362	0.7	

375	State Observers for Suspension Systems with Interacting Multiple Model Unscented Kalman Filter Subject to Markovian Switching. *International Journal of Automotive Technology*, **2021**, 22, 1459-1473	1.6	1
374	. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	4
373	Coordinated Attitude Control of Longitudinal, Lateral and Vertical Tyre Forces for Electric Vehicles Based on Model Predictive Control. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
372	Cyber-attack Detection for Photovoltaic Farms based on Power-Electronics-Enabled Harmonic State Space Modeling. *IEEE Transactions on Smart Grid*, **2021**, 1-1	10.7	0
371	A Coupling Thermal Management Strategy Based on Fuzzy Control for a Range Extended Electric Vehicle Power System. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	0
370	Data-Driven Cyber-Attack Detection for PV Farms via Time-Frequency Domain Features. *IEEE Transactions on Smart Grid*, **2021**, 1-1	10.7	0
369	A Custom Parallel Hardware Architecture of Nonlinear Model Predictive Control on FPGA. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1
368	Predictive Cruise Control of Full Electric Vehicles: A Comparison of Different Solution Methods. *IFAC-PapersOnLine*, **2021**, 54, 120-125	0.7	0
367	Eco-adaptive cruise control of diesel commercial vehicle in the intelligent network environment. *IFAC-PapersOnLine*, **2021**, 54, 271-277	0.7	
366	Engine Speed Regulation During Gear Shift Process of Torque Decoupled HEV Using Triple-Step Nonlinear Method. *International Journal of Automotive Technology*, **2021**, 22, 415-428	1.6	1
365	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	5.5	5
364	Attack-Resilient Lateral Stability Control for Autonomous In-Wheel-Motor-Driven Electric Vehicles **2021**,		1
363	Detection and Diagnosis of Long-Term Cyber-Attacks for Predictive Energy Management System in HEVs **2021**,		1
362	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	5.5	1
361	Cyber-Physical Security of Electric Vehicles With Four Motor Drives. *IEEE Transactions on Power Electronics*, **2021**, 36, 4463-4477	7.2	7
360	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	4.8	5
359	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	11.9	21
358	Optimal car-following control for intelligent vehicles using online road-slope approximation method. *Science China Information Sciences*, **2021**, 64, 1	3.4	9

357	Selective demethoxylation of guaiacol to alkylphenols in supercritical methanol over a HT-MoS2 catalyst. *Catalysis Today*, **2021**, 368, 260-271	5.3	0
356	Inverse determination of thermal boundary condition and temperature distribution of workpiece during drilling process. *Measurement: Journal of the International Measurement Confederation*, **2021**, 171, 108822	4.6	4
355	Predictive coordinated control of fuel consumption and emissions for diesel engine vehicles under intelligent network environments. *Science China Information Sciences*, **2021**, 64, 1	3.4	2
354	. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 636-648	7.6	9
353	A Review of Cyber-Physical Security for Photovoltaic Systems. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	7
352	Attack-Resilient Lateral Stability Control for Four-Wheel-Driven EVs Considering Changed Driver Behavior Under Cyber Threats. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	2
351	Fast Detection for Cyber Threats in Electric Vehicle Traction Motor Drives. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	
350	Automated Braking Decision and Control for Pedestrian Collision Avoidance Based On Risk Assessment. *IEEE Intelligent Transportation Systems Magazine*, **2021**, 2-22	2.6	1
349	CyberPhysical 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	5.6	8
348	Real-Time nonlinear predictive controller design for drive-by-wire vehicle lateral stability with dynamic boundary conditions. *Fundamental Research*, **2021**, 2, 131-131		2
347	Model predictive control for autonomous ground vehicles: a review. *Autonomous Intelligent Systems*, **2021**, 1, 1		3
346	Human-Centered Torque Vectoring Control for Distributed Drive Electric Vehicle Considering Driving Characteristics. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 7386-7399	6.8	5
345	Air flow rate and pressure control approach for the air supply subsystems in PEMFCs. *ISA Transactions*, **2021**,	5.5	1
344	Dry Clutch Control of Two-Speed Electric Vehicles by Using an Optimal Control Scheme With Persistent Time-Varying Disturbance Rejection. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2034-2046	7.6	3
343	Cyberattack Detection for Electric Vehicles Using Physics-Guided Machine Learning. *IEEE Transactions on Transportation Electrification*, **2021**, 7, 2010-2022	7.6	7
342	Real-Time Longitudinal and Lateral State Estimation of Preceding Vehicle Based on Moving Horizon Estimation. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 8755-8768	6.8	3
341	Resilient path-following control of autonomous vehicles subject to intermittent denial-of-service attacks. *IET Intelligent Transport Systems*, **2021**, 15, 1508	2.4	1
340	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	7.8	11

339	Predictive Energy Management for Dual-Motor BEVs Considering Temperature-Dependant Traction Inverter Loss. *IEEE Transactions on Transportation Electrification*, **2021**, 1-1	7.6	
338	Hierarchical Energy-Efficient Control for CAVs at Multiple Signalized Intersections Considering Queue Effects. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	2
337	Design and handling dynamic analysis of electric vehicle chassis with yaw direction oscillatable battery pack. *Vehicle System Dynamics*, **2020**, 1-22	2.8	2
336	Design and Experimental Evaluations on Energy-Efficient Control for 4WIMD-EVs Considering Tire Slip Energy. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 14631-14644	6.8	5
335	Application of decentralized fuzzy inference method for the inverse geometry design of radiative enclosures. *Infrared Physics and Technology*, **2020**, 107, 103287	2.7	2
334	A Mechatronic Brake Booster for Electric Vehicles: Design, Control, and Experiment. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 7040-7053	6.8	8
333	Coordinated Lateral and Longitudinal Vehicle-Following Control of Connected and Automated Vehicles Considering Nonlinear Dynamics **2020**, 4, 1054-1059		3
332	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	10.7	20
331	Self-Learning Optimal Cruise Control Based on Individual Car-Following Style. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-12	6.1	0
330	Path-following control of autonomous ground vehicles using triple-step model predictive control. *Science China Information Sciences*, **2020**, 63, 1	3.4	4
329	Liquid Level Tracking Control of Three-tank Systems. *International Journal of Control, Automation and Systems*, **2020**, 18, 2630-2640	2.9	4
328	Vulnerability Assessments of Electric Drive Systems Due to Sensor Data Integrity Attacks. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 3301-3310	11.9	18
327	. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1055-1059	6.8	3
326	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	6.8	33
325	Deterministic Promotion Reinforcement Learning Applied to Longitudinal Velocity Control for Automated Vehicles. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 338-348	6.8	13
324	Path following and terminal force control of robotic manipulators **2020**,		1
323	Estimation and Analysis of Vehicle Stability Region under Complex Road Conditions **2020**,		2
322	Real-time Simulation of Electric Vehicle Powertrain: Hardware-in-the-Loop (HIL) Testbed for Cyber-Physical Security **2020**,		6

321	Fault-tolerant path-tracking control of autonomous electric ground vehicles with lateral prescribed performance. *Transactions of the Institute of Measurement and Control*, **2020**, 42, 1740-1751	1.8	2
320	Support Vector Machine Based Model Predictive Control for Vehicle Path Tracking Control **2020**,		2
319	Design, implementation and experimental verification of a compensator-based triple-step model reference controller for an automotive electronic throttle. *Control Engineering Practice*, **2020**, 100, 104447	3.9	4
318	Cyber-physical security framework for Photovoltaic Farms **2020**,		4
317	Vulnerability Assessments for Power-Electronics-Based Smart Grids **2020**,		2
316	Multi-mode switching-based model predictive control approach for longitudinal autonomous driving with acceleration estimation. *IET Intelligent Transport Systems*, **2020**, 14, 2102-2112	2.4	1
315	Integrated control of torque and emission of a diesel engine based on LPV-MPC. *IET Control Theory and Applications*, **2020**, 14, 3610-3620	2.5	1
314	A Computationally Efficient Predictive Cruise Control for Automated Electric Vehicles. *IFAC-PapersOnLine*, **2020**, 53, 14173-14178	0.7	0
313	Nash optimality based distributed model predictive control for vehicle platoon. *IFAC-PapersOnLine*, **2020**, 53, 6610-6615	0.7	1
312	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	2.5	7
311	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	4	8
310	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	7.8	14
309	Core temperature estimation of lithium-ion battery for EVs using Kalman filter. *Applied Thermal Engineering*, **2020**, 168, 114816	5.8	9
308	A stability-guaranteed and energy-conserving torque distribution strategy for electric vehicles under extreme conditions. *Applied Energy*, **2020**, 259, 114162	10.7	13
307	Oxygen excess ratio control of PEM fuel cells using observer-based nonlinear triple-step controller. *International Journal of Hydrogen Energy*, **2020**, 45, 29705-29717	6.7	20
306	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	6.8	13
305	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	6.7	15
304	Model Predictive Current Control of Mutually Coupled Switched Reluctance Machines using a Three-Phase Voltage Source Converter **2020**,		6

303	Longitudinal and lateral control of autonomous vehicles in multi-vehicle driving environments. *IET Intelligent Transport Systems*, **2020**, 14, 924-935	2.4	8
302	Enhanced Cyber-physical Security of Steering Stability Control System for Four-Wheel Independent Drive Electric Vehicles **2020**,		5
301	RBF Neural Network Based Correction Iterative Learning Control for Direct-drive Pump-controlled Clutch Actuator. *IOP Conference Series: Materials Science and Engineering*, **2020**, 787, 012023	0.4	
300	Personalized Adaptive Cruise Control Based on Online Driving Style Recognition Technology and Model Predictive Control. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 12482-12496	6.8	25
299	Driver-automation shared steering control for highly automated vehicles. *Science China Information Sciences*, **2020**, 63, 1	3.4	5
298	Energy Management Strategy of Hybrid Electric Vehicle with Consideration of Road Gradient **2020**,		2
297	Fault-tolerant path-following control for in-wheel-motor-driven autonomous ground vehicles with differential steering. *Asian Journal of Control*, **2020**, 22, 1230-1240	1.7	6
296	An Output Regulator With Rejection of Time-Varying Disturbance: Experimental Validation on Clutch Slip Control. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 1158-1167	4.8	5
295	Guaiacol demethoxylation catalyzed by Re2O7 in ethanol. *Catalysis Today*, **2020**, 355, 231-237	5.3	1
294	Longitudinal-vertical integrated sliding mode controller for distributed electric vehicles. *Science China Information Sciences*, **2020**, 63, 1	3.4	
293	Nonlinear control of direct-drive pump-controlled clutch actuator in consideration of pump efficiency map. *Control Engineering Practice*, **2019**, 91, 104110	3.9	6
292	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	1.7	8
291	Integrated MXene&CoFeO electrodes with multi-level interfacial architectures for synergistic lithium-ion storage. *Nanoscale*, **2019**, 11, 15037-15042	7.7	23
290	Energy-efficient longitudinal driving strategy for intelligent vehicles on urban roads. *Science China Information Sciences*, **2019**, 62, 1	3.4	5
289	An ammonia coverage ratio observing and tracking controller: stability analysis and simulation evaluation. *Science China Information Sciences*, **2019**, 62, 1	3.4	4
288	Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. *IEEE Access*, **2019**, 7, 66410-66422	3.5	18
287	Introduction to the benchmark challenge on common rail pressure control of gasoline direct injection engines. *Control Theory and Technology*, **2019**, 17, 167-175	1	1
286	Challenges and developments of automotive fuel cell hybrid power system and control. *Science China Information Sciences*, **2019**, 62, 1	3.4	27

285	Vehicle Lateral Stability Controller Design for Critical Running Conditions using NMPC Based on Vehicle Dynamics Safety Envelope **2019**,		1
284	FPGA implementation of extended Kalman filter for SOC estimation of lithium-ion battery in electric vehicle. *Asian Journal of Control*, **2019**, 21, 2126-2136	1.7	3
283	Moving horizon shared steering strategy for intelligent vehicle based on potential-hazard analysis. *IET Intelligent Transport Systems*, **2019**, 13, 541-550	2.4	3
282	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	6.8	28
281	Energy management of HEVs based on velocity profile optimization. *Science China Information Sciences*, **2019**, 62, 1	3.4	5
280	Deoxyalkylation of guaiacol using haggite structured V4O6(OH)4. *Catalysis Science and Technology*, **2019**, 9, 1922-1932	5.5	7
279	MPC-Based Downshift Control of Automated Manual Transmissions. *Automotive Innovation*, **2019**, 2, 55-63	1.7	1
278	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	7.3	17
277	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	7.8	81
276	Output-feedback triple-step coordinated control for path following of autonomous ground vehicles. *Mechanical Systems and Signal Processing*, **2019**, 116, 146-159	7.8	19
275	A Review of Estimation for Vehicle Tire-Road Interactions Toward Automated Driving. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 14-30	7.3	33
274	A Novel Trajectory Planning Method for Automated Vehicles Under Parameter Decision Framework. *IEEE Access*, **2019**, 7, 88264-88274	3.5	2
273	A Fixed-Switching-Frequency Sliding Mode Current Controller for Mutually Coupled Switched Reluctance Machines Using Asymmetric Bridge Converter **2019**,		4
272	MPC-Based Slip Ratio Control for Electric Vehicle Considering Road Roughness. *IEEE Access*, **2019**, 7, 52405-52413	3.5	12
271	Optimal Lane Change Control of Intelligent Vehicle Based on MPC **2019**,		2
270	. *IEEE Access*, **2019**, 7, 72914-72927	3.5	6
269	Modular scheme for four-wheel-drive electric vehicle tire-road force and velocity estimation. *IET Intelligent Transport Systems*, **2019**, 13, 551-562	2.4	7
268	Resilient Fault and Attack Detection of DCT Vehicles Using Parity Space Approach **2019**,		2

267	Power-on gear downshift of electric vehicles using I-AMT with an overrunning clutch. *International Journal of Powertrains*, **2019**, 8, 115	0.5	
266	Stability and Trajectory Control for Post-Impact Vehicle Based on Fuzzy PID Algorithm **2019**,		2
265	Tire State Stiffness Prediction for Improving Path Tracking Control During Emergency Collision Avoidance. *IEEE Access*, **2019**, 7, 179658-179669	3.5	7
264	Nonlinear control of air-feed system for proton exchange membrane fuel cell with auxiliary power battery. *Journal of Renewable and Sustainable Energy*, **2019**, 11, 054302	2.5	3
263	An MPC-based manoeuvre stability controller for full drive-by-wire vehicles. *Control Theory and Technology*, **2019**, 17, 357-366	1	6
262	Stability control of electric vehicles with in-wheel motors by considering tire slip energy. *Mechanical Systems and Signal Processing*, **2019**, 118, 340-359	7.8	37
261	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO for Improved Hydrogen Production Efficiency. *ChemSusChem*, **2019**, 12, 1000-1010	8.3	41
260	Torque optimization control for electric vehicles with four in-wheel motors equipped with regenerative braking system. *Mechatronics*, **2019**, 57, 95-108	3	67
259	Modular Integrated Longitudinal, Lateral, and Vertical Vehicle Stability Control for Distributed Electric Vehicles. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 1327-1338	6.8	33
258	Trajectory planning and tracking control of a ground mobile robot:A reconstruction approach towards space vehicle. *ISA Transactions*, **2019**, 87, 116-128	5.5	14
257	Integrated Co3O4/carbon fiber paper for high-performance anode of dual-ion battery. *Journal of Energy Chemistry*, **2019**, 37, 7-12	12	29
256	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	4.9	8
255	Fluorescence Guided Sentinel Lymph Node Mapping: From Current Molecular Probes to Future Multimodal Nanoprobes. *Bioconjugate Chemistry*, **2019**, 30, 13-28	6.3	28
254	Oxygen Vacancies Boost BiO as a High-Performance Electrode for Rechargeable Aqueous Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 2103-2111	9.5	39
253	Fault-tolerant control for in-wheel-motor-driven electric ground vehicles in discrete time. *Mechanical Systems and Signal Processing*, **2019**, 121, 441-454	7.8	20
252	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	7.3	57
251	Effects of split and single injection strategies on particle number emission and combustion of a GDI engine. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2019**, 233, 1100-1114	1.4	6
250	Remaining Useful Life Prediction of Lithium-Ion Battery Based on Gauss Hermite Particle Filter. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1788-1795	4.8	54

249	Low-Complexity Nonlinear Analysis of Synchrophasor Measurements for Events Detection and Localization. *IEEE Access*, **2018**, 6, 4982-4993	3.5	10
248	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 6762-6771	8.9	85
247	Vehicle dynamic state estimation: state of the art schemes and perspectives. *IEEE/CAA Journal of Automatica Sinica*, **2018**, 5, 418-431	7	73
246	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	7.8	19
245	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 7239-7247	8.9	88
244	Energy-efficient control of electric vehicles based on linear quadratic regulator and phase plane analysis. *Applied Energy*, **2018**, 213, 639-657	10.7	39
243	A Computationally Efficient and Hierarchical Control Strategy for Velocity Optimization of On-Road Vehicles. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 1-11	7.3	20
242	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	11.9	99
241	Modelling and control of urea-SCR systems through the triple-step non-linear method in consideration of time-varying parameters and reference dynamics. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 287-302	1.8	7
240	Disturbance observer based control for four wheel steering vehicles with model reference. *IEEE/CAA Journal of Automatica Sinica*, **2018**, 5, 1121-1127	7	16
239	Dual-envelop-oriented moving horizon path tracking control for fully automated vehicles. *Mechatronics*, **2018**, 50, 422-433	3	55
238	Nonlinear moving horizon control for following vehicles in truck platooning **2018**,		1
237	Constrained control of free piston engine generator based on implicit reference governor. *Science China Information Sciences*, **2018**, 61, 1	3.4	9
236	PID slip control based on vertical suspension system for in-wheel-motored electric vehicles **2018**,		3
235	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, 034103	2.5	12
234	Facile Preparation of Haggite by Reducing VO in Guaiacol/Methanol Solution. *Inorganic Chemistry*, **2018**, 57, 8705-8708	5.1	3
233	Learning-Based Predictive Control for Discrete-Time Nonlinear Systems With Stochastic Disturbances. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 6202-6213	10.3	24
232	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	7	26

231	Active Thermal Control of a Battery Pack Under Elevated Temperatures. *IFAC-PapersOnLine*, **2018**, 51, 262-267	0.7	7
230	Launch Coordination Control Based on Twin-Clutch Torque Distribution for DCT Vehicle. *IFAC-PapersOnLine*, **2018**, 51, 904-909	0.7	6
229	Estimation Road Slope and Longitudinal Velocity for Four-wheel Drive Vehicle. *IFAC-PapersOnLine*, **2018**, 51, 572-577	0.7	1
228	MPC for Path Following Problems of Wheeled Mobile Robots. *IFAC-PapersOnLine*, **2018**, 51, 247-252	0.7	10
227	A Noise Reduction Method for MEMS Gyroscope Based on Direct Modeling and Kalman Filter. *IFAC-PapersOnLine*, **2018**, 51, 172-176	0.7	1
226	Shift Quality Amelioration of EV with AMT by Speed Regulation. *IFAC-PapersOnLine*, **2018**, 51, 910-917	0.7	4
225	Liquid Level Tracking Control of Three-tank Systems **2018**,		2
224	A synergy control framework for enlarging vehicle stability region with experimental verification. *Science China Information Sciences*, **2018**, 61, 1	3.4	3
223	Predictive Cruise Control Using High-Definition Map and Real Vehicle Implementation. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 11377-11389	6.8	31
222	Optimization of gearshift MAP based on DP for vehicles with automated transmission. *Science China Information Sciences*, **2018**, 61, 1	3.4	3
221	Predictive safety control for road vehicles after a tire blowout. *Science China Information Sciences*, **2018**, 61, 1	3.4	8
220	Effect of split injection on particle number (PN) emissions in GDI engine at fast-idle through integrated analysis of optics and mechanics. *Energy*, **2018**, 165, 55-67	7.9	7
219	Real-Time Predictive Cruise Control for Eco-Driving Taking into Account Traffic Constraints. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 1-11	6.1	53
218	A Feedback Linearization Control Scheme Based on Direct Torque Control for Permanent Magnet Synchronous Motor **2018**,		2
217	Carbon-Based Dual-Ion Battery with Enhanced Capacity and Cycling Stability. *ChemElectroChem*, **2018**, 5, 3612-3618	4.3	38
216	Fault-Tolerant Control of Electric Ground Vehicles Using a Triple-Step Nonlinear Approach. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 1775-1786	5.5	20
215	Acceleration Speed Optimization of Intelligent EVs in Consideration of Battery Aging. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 8009-8018	6.8	9
214	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	7.8	22

213	Stability of finite horizon model predictive control with incremental input constraints. *Automatica*, **2017**, 79, 265-272	5.7	19
212	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	7	19
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