

# Hong Chen

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3221248/hong-chen-publications-by-citations.pdf>

**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Quasi-Infinite Horizon Nonlinear Model Predictive Control Scheme with Guaranteed Stability**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. <i>Automatica</i> , <b>1998</b> , 34, 1205-1217	5.7	948
391	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2005</b> , 13, 412-421	4.8	203
390	Gear ratio optimization and shift control of 2-speed I-AMT in electric vehicle. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 50-51, 615-631	7.8	130
389	Optimal Energy Management for HEVs in Eco-Driving Applications Using Bi-Level MPC. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 2153-2162	6.1	105
388	Simultaneous Trajectory Planning and Tracking Using an MPC Method for Cyber-Physical Systems: A Case Study of Obstacle Avoidance for an Intelligent Vehicle. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 4273-4283	11.9	99
387	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 194-200	2.4	98
386	(EMI <sub>m</sub> )+(PF <sub>6</sub> ) <sup>+</sup> Ionic Liquid Unlocks Optimum Energy/Power Density for Architecture of Nanocarbon-Based Dual-Ion Battery. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1601378	21.8	97
385	MPC-based yaw stability control in in-wheel-motored EV via active front steering and motor torque distribution. <i>Mechatronics</i> , <b>2016</b> , 38, 103-114	3	97
384	Fast Nonlinear Model Predictive Control on FPGA Using Particle Swarm Optimization. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 310-321	8.9	91
383	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 7239-7247	8.9	88
382	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6762-6771	8.9	85
381	Model predictive path following control for autonomous cars considering a measurable disturbance: Implementation, testing, and verification. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 118, 41-60	7.8	81
380	Design of Clutch-Slip Controller for Automatic Transmission Using Backstepping. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2011</b> , 16, 498-508	5.5	76
379	Implementation of EKF for Vehicle Velocities Estimation on FPGA. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 3823-3835	8.9	75
378	Controlling phase transition for single-layer MTe <sub>2</sub> (M = Mo and W): modulation of the potential barrier under strain. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 4086-94	3.6	74
377	Vehicle dynamic state estimation: state of the art schemes and perspectives. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2018</b> , 5, 418-431	7	73
376	One-Step Synthesis of a Self-Supported Copper Phosphide Nanobush for Overall Water Splitting. <i>ACS Omega</i> , <b>2016</b> , 1, 1367-1373	3.9	73

375	Distributed model predictive load frequency control of multi-area interconnected power system. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2014</b> , 62, 289-298	5.1	70
374	Distributed Model Predictive Load Frequency Control of the Multi-Area Power System After Deregulation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 5129-5139	8.9	70
373	Design of a Nonlinear Observer for Vehicle Velocity Estimation and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 664-672	4.8	68
372	Torque optimization control for electric vehicles with four in-wheel motors equipped with regenerative braking system. <i>Mechatronics</i> , <b>2019</b> , 57, 95-108	3	67
371	The effects of sintering temperature of MnCr2O4 nanocomposite on the NO2 sensing property for YSZ-based potentiometric sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 177, 397-403	8.5	64
370	A Switched Control Strategy for Antilock Braking System With On/Off Valves. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 1470-1484	6.8	62
369	Moving horizon H <sub>2</sub> control with performance adaptation for constrained linear systems. <i>Automatica</i> , <b>2006</b> , 42, 1033-1040	5.7	61
368	Electro-hydraulic damper for energy harvesting suspension: Modeling, prototyping and experimental validation. <i>Applied Energy</i> , <b>2017</b> , 199, 1-12	10.7	59
367	Near-Optimal Tracking Control of Mobile Robots Via Receding-Horizon Dual Heuristic Programming. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2484-2496	10.2	59
366	Inherent robustness properties of quasi-infinite horizon nonlinear model predictive control. <i>Automatica</i> , <b>2014</b> , 50, 2269-2280	5.7	59
365	Nonlinear Model Predictive Lateral Stability Control of Active Chassis for Intelligent Vehicles and Its FPGA Implementation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 2-13	7.3	57
364	Integrated control of in-wheel motor electric vehicles using a triple-step nonlinear method. <i>Journal of the Franklin Institute</i> , <b>2015</b> , 352, 519-540	4	55
363	Dual-envelop-oriented moving horizon path tracking control for fully automated vehicles. <i>Mechatronics</i> , <b>2018</b> , 50, 422-433	3	55
362	Remaining Useful Life Prediction of Lithium-Ion Battery Based on Gaussian-Hermite Particle Filter. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 1788-1795	4.8	54
361	Real-Time Predictive Cruise Control for Eco-Driving Taking into Account Traffic Constraints. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 1-11	6.1	53
360	Moving Horizon $H_{\infty}$ Tracking Control of Wheeled Mobile Robots With Actuator Saturation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2009</b> , 17, 449-457	4.8	52
359	Nonlinear model predictive control for path following problems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2015</b> , 25, 1168-1182	3.6	51
358	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6995-7003	8.9	51

357	Switching-Based Stochastic Model Predictive Control Approach for Modeling Driver Steering Skill. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 365-375	6.1	50
356	Nonlinear MPC-based slip control for electric vehicles with vehicle safety constraints. <i>Mechatronics</i> , <b>2016</b> , 38, 1-15	3	50
355	Disturbance attenuation control of active suspension with non-linear actuator dynamics. <i>IET Control Theory and Applications</i> , <b>2011</b> , 5, 112	2.5	45
354	Fractional modeling and SOC estimation of lithium-ion battery. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2016</b> , 3, 281-287	7	44
353	Improving Photocatalytic Performance from BiWO <sub>3</sub> /MoS <sub>2</sub> /graphene Hybrids via Gradual Charge Transferred Pathway. <i>Scientific Reports</i> , <b>2017</b> , 7, 3637	4.9	42
352	Model predictive control allocation for stability improvement of four-wheel drive electric vehicles in critical driving condition. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 2688-2696	2.5	42
351	Data-Driven Predictive Gearshift Control for Dual-Clutch Transmissions and FPGA Implementation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 599-610	8.9	42
350	Triple-step method to design non-linear controller for rail pressure of gasoline direct injection engines. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 948-959	2.5	42
349	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO for Improved Hydrogen Production Efficiency. <i>ChemSusChem</i> , <b>2019</b> , 12, 1000-1010	8.3	41
348	Design and analysis of a model predictive controller for active queue management. <i>ISA Transactions</i> , <b>2012</b> , 51, 120-31	5.5	40
347	Energy-efficient control of electric vehicles based on linear quadratic regulator and phase plane analysis. <i>Applied Energy</i> , <b>2018</b> , 213, 639-657	10.7	39
346	Model predictive control of constrained LPV systems. <i>International Journal of Control</i> , <b>2012</b> , 85, 671-683	1.5	39
345	Oxygen Vacancies Boost BiO as a High-Performance Electrode for Rechargeable Aqueous Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2103-2111	9.5	39
344	Optimal Trajectory Planning of Motor Torque and Clutch Slip Speed for Gear Shift of a Two-Speed Electric Vehicle. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	38
343	Carbon-Based Dual-Ion Battery with Enhanced Capacity and Cycling Stability. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3612-3618	4.3	38
342	Highly sensitive mixed-potential-type NO <sub>2</sub> sensor with YSZ processed using femtosecond laser direct writing technology. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 198, 110-113	8.5	37
341	Stability control of electric vehicles with in-wheel motors by considering tire slip energy. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 118, 340-359	7.8	37
340	A decentralized fuzzy inference method for solving the two-dimensional steady inverse heat conduction problem of estimating boundary condition. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 2782-2788	4.9	36

- 339 A Reduced-Order Nonlinear Clutch Pressure Observer for Automatic Transmission. *IEEE Transactions on Control Systems Technology*, **2010**, 18, 446-453 4.8 36
- 338 Modified MUSIC Algorithm for DOA Estimation With Nyström Approximation. *IEEE Sensors Journal*, **2016**, 16, 4673-4674 4 34
- 337 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
- 336 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
- 335 Observer-based clutch disengagement control during gear shift process of automated manual transmission. *Vehicle System Dynamics*, **2011**, 49, 685-701 2.8 33
- 334 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
- 333 On-line Optimal Control of the Gearshift Command for Multispeed Electric Vehicles. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 1519-1530 5.5 31
- 332 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 8.9 31
- 331 Design of nonlinear shaft torque observer for trucks with Automated Manual Transmission. *Mechatronics*, **2011**, 21, 1034-1042 3 31
- 330 Predictive Cruise Control Using High-Definition Map and Real Vehicle Implementation. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 11377-11389 6.8 31
- 329 Fuzzy estimation for temperature distribution of furnace inner surface. *International Journal of Thermal Sciences*, **2012**, 51, 84-90 4.1 30
- 328 Data-Driven Design of Parity Space-Based FDI System for AMT Vehicles. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 405-415 5.5 29
- 327 Nonlinear Coordinated Motion Control of Road Vehicles After a Tire Blowout. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 956-970 4.8 29
- 326 Design of a reduced-order non-linear observer for vehicle velocities estimation. *IET Control Theory and Applications*, **2013**, 7, 2056-2068 2.5 29
- 325 Nonlinear feedforward feedback control of clutch-to-clutch shift technique. *Vehicle System Dynamics*, **2011**, 49, 1895-1911 2.8 29
- 324 Integrated Co3O4/carbon fiber paper for high-performance anode of dual-ion battery. *Journal of Energy Chemistry*, **2019**, 37, 7-12 12 29
- 323 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
- 322 Fluorescence Guided Sentinel Lymph Node Mapping: From Current Molecular Probes to Future Multimodal Nanoprobes. *Bioconjugate Chemistry*, **2019**, 30, 13-28 6.3 28

3 <sup>21</sup>	Challenges and developments of automotive fuel cell hybrid power system and control. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	27
3 <sup>20</sup>	Hazard-evaluation-oriented moving horizon parallel steering control for driver-automation collaboration during automated driving. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2018</b> , 5, 1062-1073	7	26
3 <sup>19</sup>	Field programmable gate array/system on a programmable chip-based implementation of model predictive controller. <i>IET Control Theory and Applications</i> , <b>2012</b> , 6, 1055-1063	2.5	26
3 <sup>18</sup>	Design of a data-driven predictive controller for start-up process of AMT vehicles. <i>IEEE Transactions on Neural Networks</i> , <b>2011</b> , 22, 2201-12		26
3 <sup>17</sup>	A computationally attractive nonlinear predictive control scheme with guaranteed stability for stable systems. <i>Journal of Process Control</i> , <b>1998</b> , 8, 475-485	3.9	25
3 <sup>16</sup>	Personalized Adaptive Cruise Control Based on Online Driving Style Recognition Technology and Model Predictive Control. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 12482-12496	6.8	25
3 <sup>15</sup>	Learning-Based Predictive Control for Discrete-Time Nonlinear Systems With Stochastic Disturbances. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 6202-6213	10.3	24
3 <sup>14</sup>	Integrated MXene&CoFeO electrodes with multi-level interfacial architectures for synergistic lithium-ion storage. <i>Nanoscale</i> , <b>2019</b> , 11, 15037-15042	7.7	23
3 <sup>13</sup>	Automotive Control: the State of the Art and Perspective. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2013</b> , 39, 322-346		23
3 <sup>12</sup>	A novel integrated approach for path following and directional stability control of road vehicles after a tire blow-out. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 93, 431-444	7.8	22
3 <sup>11</sup>	Nonlinear gearshifts control of dual-clutch transmissions during inertia phase. <i>ISA Transactions</i> , <b>2014</b> , 53, 1320-31	5.5	21
3 <sup>10</sup>	Online Shift Schedule Optimization of 2-Speed Electric Vehicle Using Moving Horizon Strategy. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 2858-2869	5.5	21
3 <sup>09</sup>	Systematic Assessment of Cyber-Physical Security of Energy Management System for Connected and Automated Electric Vehicles. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 3335-3347	11.9	21
3 <sup>08</sup>	A Distributed Adaptive Triple-Step Nonlinear Control for a Connected Automated Vehicle Platoon With Dynamic Uncertainty. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 3861-3871	10.7	20
3 <sup>07</sup>	A Computationally Efficient and Hierarchical Control Strategy for Velocity Optimization of On-Road Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 1-11	7.3	20
3 <sup>06</sup>	Observer-based feedback control during torque phase of clutch-to-clutch shift process. <i>International Journal of Vehicle Design</i> , <b>2012</b> , 58, 93	2.4	20
3 <sup>05</sup>	Oxygen excess ratio control of PEM fuel cells using observer-based nonlinear triple-step controller. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 29705-29717	6.7	20
3 <sup>04</sup>	Fault-tolerant control for in-wheel-motor-driven electric ground vehicles in discrete time. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 121, 441-454	7.8	20

303	Fault-Tolerant Control of Electric Ground Vehicles Using a Triple-Step Nonlinear Approach. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1775-1786	5.5	20
302	Stability of finite horizon model predictive control with incremental input constraints. <i>Automatica</i> , <b>2017</b> , 79, 265-272	5.7	19
301	A nonlinear observer approach of SOC estimation based on hysteresis model for lithium-ion battery. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2017</b> , 4, 195-204	7	19
300	Nonlinear model predictive controller design based on learning model for turbocharged gasoline engine of passenger vehicle. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 109, 74-88	7.8	19
299	Output-feedback triple-step coordinated control for path following of autonomous ground vehicles. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 116, 146-159	7.8	19
298	Velocity Optimization for Braking Energy Management of In-Wheel Motor Electric Vehicles. <i>IEEE Access</i> , <b>2019</b> , 7, 66410-66422	3.5	18
297	Constrained $H_\infty$ control for road vehicles after a tire blow-out. <i>Mechatronics</i> , <b>2015</b> , 30, 371-382	3	18
296	Vulnerability Assessments of Electric Drive Systems Due to Sensor Data Integrity Attacks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 3301-3310	11.9	18
295	A decentralized fuzzy inference method for the inverse geometry heat conduction problem. <i>Applied Thermal Engineering</i> , <b>2016</b> , 106, 109-116	5.8	18
294	Towards unlocking high-performance of supercapacitors: From layered transition-metal hydroxide electrode to redox electrolyte. <i>Science China Technological Sciences</i> , <b>2015</b> , 58, 1779-1798	3.5	18
293	Morphology dependence of electrochemical properties on palladium nanocrystals. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 490, 190-196	9.3	17
292	Adaptive Robust Triple-Step Control for Compensating Cogging Torque and Model Uncertainty in a DC Motor. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 2396-2405	7.3	17
291	Disturbance observer based control for four wheel steering vehicles with model reference. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2018</b> , 5, 1121-1127	7	16
290	Robust $H_\infty$ control for constrained discrete-time piecewise affine systems with time-varying parametric uncertainties. <i>IET Control Theory and Applications</i> , <b>2009</b> , 3, 1132-1144	2.5	16
289	A Feasible Moving Horizon $\{H\}_{\infty}$ Control Scheme for Constrained Uncertain Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 343-348	5.9	16
288	Regional path moving horizon tracking controller design for autonomous ground vehicles. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	15
287	Modeling and Control of the Fuel Injection System for Rail Pressure Regulation in GDI Engine. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 1501-1513	5.5	15
286	A comparison study of battery size optimization and an energy management strategy for FCHEVs based on dynamic programming and convex programming. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 21858-21872	6.7	15

285	A fast algorithm for nonlinear model predictive control applied to HEV energy management systems. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	14
284	TM atoms on B/N doped defective graphene as a catalyst for oxygen reduction reaction: a theoretical study. <i>RSC Advances</i> , <b>2015</b> , 5, 82804-82812	3.7	14
283	Improved optimal controller for start-up of amt trucks in consideration of driver's intention. <i>International Journal of Automotive Technology</i> , <b>2013</b> , 14, 213-220	1.6	14
282	Stabilizing model predictive control for LPV systems subject to constraints with parameter-dependent control law <b>2009</b> ,		14
281	Road tire friction coefficient estimation for four wheel drive electric vehicle based on moving optimal estimation strategy. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 139, 106416	7.8	14
280	Trajectory planning and tracking control of a ground mobile robot:A reconstruction approach towards space vehicle. <i>ISA Transactions</i> , <b>2019</b> , 87, 116-128	5.5	14
279	Deterministic Promotion Reinforcement Learning Applied to Longitudinal Velocity Control for Automated Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 338-348	6.8	13
278	Moving horizon H <sub>2</sub> control of variable speed wind turbines with actuator saturation. <i>IET Renewable Power Generation</i> , <b>2014</b> , 8, 498-508	2.9	13
277	A triple-step non-linear control for path following of autonomous vehicles with uncertain kinematics and dynamics. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 3381-3387	2.5	13
276	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems <b>2011</b> ,		13
275	Gear Shifting Control for Pure Electric Vehicle with Inverse-AMT. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 190-191, 1286-1289	0.3	13
274	A stability-guaranteed and energy-conserving torque distribution strategy for electric vehicles under extreme conditions. <i>Applied Energy</i> , <b>2020</b> , 259, 114162	10.7	13
273	An Energy-Saving Torque Vectoring Control Strategy for Electric Vehicles Considering Handling Stability Under Extreme Conditions. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 10787-10796	6.8	13
272	State of charge and state of health estimation for lithium-ion battery through dual sliding mode observer based on AMESim-Simulink co-simulation. <i>Journal of Renewable and Sustainable Energy</i> , <b>2018</b> , 10, 034103	2.5	12
271	MPC-Based Slip Ratio Control for Electric Vehicle Considering Road Roughness. <i>IEEE Access</i> , <b>2019</b> , 7, 52405-52413	3.5	12
270	FPGA implementation of nonlinear model predictive control <b>2014</b> ,		12
269	Dynamics and control of gear upshift in automated manual transmissions. <i>International Journal of Vehicle Design</i> , <b>2013</b> , 63, 61	2.4	12
268	An improved moving horizon control scheme through Lagrange duality. <i>International Journal of Control</i> , <b>2006</b> , 79, 239-248	1.5	12

267	A regenerative braking control strategy for electric vehicle with four in-wheel motors <b>2016</b> ,		11
266	Inverse Estimation for Heat Flux Distribution at the Metal-Mold Interface Using Fuzzy Inference. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	11
265	Electrochemical modeling and parameter identification based on bacterial foraging optimization algorithm for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , <b>2016</b> , 46, 1119-1131	2.6	11
264	Coordinated longitudinal and lateral vehicle stability control based on the combined-slip tire model in the MPC framework. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 161, 107947	7.8	11
263	Low-Complexity Nonlinear Analysis of Synchrophasor Measurements for Events Detection and Localization. <i>IEEE Access</i> , <b>2018</b> , 6, 4982-4993	3.5	10
262	A regenerative braking system for electric vehicle with four in-wheel motors based on fuzzy control <b>2017</b> ,		10
261	Integrated control of active front steering and direct yaw moment based on model predictive control <b>2014</b> ,		10
260	Model Predictive Control of AMT clutch during start-up process <b>2011</b> ,		10
259	MPC for Path Following Problems of Wheeled Mobile Robots. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 247-252	0.7	10
258	Constrained control of free piston engine generator based on implicit reference governor. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	9
257	MPC-Based Regional Path Tracking Controller Design for Autonomous Ground Vehicles <b>2015</b> ,		9
256	A Nonlinear Clutch Pressure Observer for Automatic Transmission: Considering Drive-Shaft Compliance. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2012</b> , 134,	1.6	9
255	Enlarging the Terminal Region of NMPC with Parameter-Dependent Terminal Control Law. <i>Lecture Notes in Control and Information Sciences</i> , <b>2009</b> , 69-78	0.5	9
254	Core temperature estimation of lithium-ion battery for EVs using Kalman filter. <i>Applied Thermal Engineering</i> , <b>2020</b> , 168, 114816	5.8	9
253	Estimating the State of Charge of Lithium-ion Battery based on Sliding Mode Observer. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 54-61	0.7	9
252	Optimal car-following control for intelligent vehicles using online road-slope approximation method. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	9
251	. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 636-648	7.6	9
250	Acceleration Speed Optimization of Intelligent EVs in Consideration of Battery Aging. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8009-8018	6.8	9

249	Control-oriented modeling and robust nonlinear triple-step controller design for an air-feed system for polymer electrolyte membrane fuel cells. <i>Asian Journal of Control</i> , <b>2019</b> , 21, 1811-1823	1.7	8
248	A Mechatronic Brake Booster for Electric Vehicles: Design, Control, and Experiment. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 7040-7053	6.8	8
247	MPC-based path tracking controller design for autonomous ground vehicles <b>2017</b> ,		8
246	Robust observer-based control for uncertain discrete-time piecewise affine systems. <i>Journal of Control Theory and Applications</i> , <b>2012</b> , 10, 236-243		8
245	A study on gear shifting schedule for 2-speed electric vehicle using dynamic programming <b>2013</b> ,		8
244	Two-Degree-of-Freedom Controller Design for Clutch Slip Control of Automatic Transmission. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , <b>2008</b> , 1, 430-438	0.3	8
243	Integrated design of control allocation and triple-step control for over-actuated electric ground vehicles with actuator faults. <i>Journal of the Franklin Institute</i> , <b>2020</b> , 357, 3150-3167	4	8
242	Longitudinal and lateral control of autonomous vehicles in multi-vehicle driving environments. <i>IET Intelligent Transport Systems</i> , <b>2020</b> , 14, 924-935	2.4	8
241	Quantitative identification of three-dimensional subsurface defect based on the fuzzy inference of thermal process. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 133, 903-911	4.9	8
240	Predictive safety control for road vehicles after a tire blowout. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	8
239	CyberPhysical Security of Powertrain Systems in Modern Electric Vehicles: Vulnerabilities, Challenges, and Future Visions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 4639-4657	5.6	8
238	Deoxyalkylation of guaiacol using haggite structured V4O6(OH)4. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 1922-1932	5.5	7
237	Modelling and control of urea-SCR systems through the triple-step non-linear method in consideration of time-varying parameters and reference dynamics. <i>Transactions of the Institute of Measurement and Control</i> , <b>2018</b> , 40, 287-302	1.8	7
236	Shift control of Dual Clutch Transmission using Triple-Step nonlinear method. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 5884-5889		7
235	TB model-based nonlinear moving-horizon H <sub>2</sub> control and applications. <i>Fuzzy Sets and Systems</i> , <b>2013</b> , 212, 78-96	3.7	7
234	Sliding-mode control of four wheel steering systems <b>2017</b> ,		7
233	Full-car active suspension based on H <sub>2</sub> /generalised H <sub>2</sub> output feedback control. <i>International Journal of Vehicle Design</i> , <b>2015</b> , 68, 37	2.4	7
232	Dual-loop Control of Free Piston Engine Generator. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 174-180	0.7	7

231	Urea-SCR Process Control for Diesel Engine Using Feedforward-Feedback Nonlinear Method. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 367-372	0.7	7
230	Controller and observer design for a class of discrete-time nonlinear switching systems. <i>International Journal of Control, Automation and Systems</i> , <b>2012</b> , 10, 1193-1203	2.9	7
229	The Seamless Gear Shifting Control for Pure Electric Vehicle with 2-speed Inverse-AMT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 507-511		7
228	Nonlinear model predictive control for idle speed control of SI engine <b>2009</b> ,		7
227	Model predictive control for integrated longitudinal and lateral stability of electric vehicles with in-wheel motors. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 2741-2751	2.5	7
226	Modular scheme for four-wheel-drive electric vehicle tire-road force and velocity estimation. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 551-562	2.4	7
225	Tire State Stiffness Prediction for Improving Path Tracking Control During Emergency Collision Avoidance. <i>IEEE Access</i> , <b>2019</b> , 7, 179658-179669	3.5	7
224	Cyber-Physical Security of Electric Vehicles With Four Motor Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4463-4477	7.2	7
223	A Review of Cyber-Physical Security for Photovoltaic Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	7
222	Active Thermal Control of a Battery Pack Under Elevated Temperatures. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 262-267	0.7	7
221	Effect of split injection on particle number (PN) emissions in GDI engine at fast-idle through integrated analysis of optics and mechanics. <i>Energy</i> , <b>2018</b> , 165, 55-67	7.9	7
220	Cyberattack Detection for Electric Vehicles Using Physics-Guided Machine Learning. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 2010-2022	7.6	7
219	Nonlinear control of direct-drive pump-controlled clutch actuator in consideration of pump efficiency map. <i>Control Engineering Practice</i> , <b>2019</b> , 91, 104110	3.9	6
218	Slip ratio estimation for electric vehicle with in-wheel motors based on EKF without detection of vehicle velocity <b>2016</b> ,		6
217	A stochastic model predictive control approach for modelling human driver steering control. <i>International Journal of Vehicle Design</i> , <b>2016</b> , 70, 249	2.4	6
216	. <i>IEEE Access</i> , <b>2019</b> , 7, 72914-72927	3.5	6
215	Shift schedule optimization of 2-speed electric vehicle using model predictive control <b>2014</b> ,		6
214	Modeling Driver Steering Control Based on Stochastic Model Predictive Control <b>2013</b> ,		6

213	Model predictive control oriented shared steering control for intelligent vehicles <b>2017</b> ,		6
212	Clutch slip control of automatic transmissions: A nonlinear feedforward-feedback design <b>2010</b> ,		6
211	Clutch slip control of Automatic Transmission using nonlinear method <b>2009</b> ,		6
210	Sliding mode observer for vehicle velocity estimation with road grade and bank angles adaptation <b>2009</b> ,		6
209	Real-time Simulation of Electric Vehicle Powertrain: Hardware-in-the-Loop (HIL) Testbed for Cyber-Physical Security <b>2020</b> ,		6
208	Adaptive Decision-Making for Automated Vehicles Under Roundabout Scenarios Using Optimization Embedded Reinforcement Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 5526-5538	10.3	6
207	Model Predictive Current Control of Mutually Coupled Switched Reluctance Machines using a Three-Phase Voltage Source Converter <b>2020</b> ,		6
206	An MPC-based manoeuvre stability controller for full drive-by-wire vehicles. <i>Control Theory and Technology</i> , <b>2019</b> , 17, 357-366	1	6
205	Effects of split and single injection strategies on particle number emission and combustion of a GDI engine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2019</b> , 233, 1100-1114	1.4	6
204	Fault-tolerant path-following control for in-wheel-motor-driven autonomous ground vehicles with differential steering. <i>Asian Journal of Control</i> , <b>2020</b> , 22, 1230-1240	1.7	6
203	Launch Coordination Control Based on Twin-Clutch Torque Distribution for DCT Vehicle. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 904-909	0.7	6
202	Energy-efficient longitudinal driving strategy for intelligent vehicles on urban roads. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	5
201	Energy management of HEVs based on velocity profile optimization. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	5
200	Yaw stability control for in-wheel-motored electric vehicle with a fuzzy PID method <b>2015</b> ,		5
199	Design and Experimental Evaluations on Energy-Efficient Control for 4WIMD-EVs Considering Tire Slip Energy. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 14631-14644	6.8	5
198	Energy management of a parallel hybrid electric vehicle with CVT using model predictive control <b>2016</b> ,		5
197	Optimal control methods in intelligent vehicles. <i>Journal of Control and Decision</i> , <b>2017</b> , 4, 32-56	0.9	5
196	Model predictive slip control for electric vehicle with four in-wheel motors <b>2015</b> ,		5

195	Nonlinear Estimation and Control of Automotive Drivetrains <b>2014</b> ,		5
194	ADRC based clutch slip control for automatic transmission <b>2011</b> ,		5
193	Flow-valve modelling and wheel-slip control for an automotive hydraulic anti-lock braking system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2011</b> , 225, 1565-1577	1.4	5
192	H <sub>∞</sub> Output Feedback Control of Constrained Systems via Moving Horizon Strategy. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2007</b> , 33, 1176-1181		5
191	Robust Tracking Control of Mobile Robot Formation with Obstacle Avoidance. <i>Journal of Control Science and Engineering</i> , <b>2007</b> , 2007, 1-10	1.2	5
190	Estimation of Vehicle Yaw Rate and Side Slip Angle using Moving Horizon Strategy <b>2006</b> ,		5
189	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. <i>Materials Today</i> , <b>2022</b> ,	21.8	5
188	Enhanced Cyber-physical Security of Steering Stability Control System for Four-Wheel Independent Drive Electric Vehicles <b>2020</b> ,		5
187	Driver-automation shared steering control for highly automated vehicles. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	5
186	Real-Time Integrated Power and Thermal Management of Connected HEVs Based on Hierarchical Model Predictive Control. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 1271-1282	5.5	5
185	An Output Regulator With Rejection of Time-Varying Disturbance: Experimental Validation on Clutch Slip Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1158-1167	4.8	5
184	Design and Experimental Verification of Real-Time Nonlinear Predictive Controller for Improving the Stability of Production Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 2206-2213	13.8	5
183	Human-Centered Torque Vectoring Control for Distributed Drive Electric Vehicle Considering Driving Characteristics. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 7386-7399	6.8	5
182	MPC-based torque control of permanent magnet synchronous motor for electric vehicles via switching optimization. <i>Control Theory and Technology</i> , <b>2017</b> , 15, 138-149	1	4
181	An ammonia coverage ratio observing and tracking controller: stability analysis and simulation evaluation. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	4
180	Path-following control of autonomous ground vehicles using triple-step model predictive control. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	4
179	Liquid Level Tracking Control of Three-tank Systems. <i>International Journal of Control, Automation and Systems</i> , <b>2020</b> , 18, 2630-2640	2.9	4
178	Speed control of the permanent-magnet DC motor subjected to uncertainty and disturbance <b>2016</b> ,		4

177	A Fixed-Switching-Frequency Sliding Mode Current Controller for Mutually Coupled Switched Reluctance Machines Using Asymmetric Bridge Converter <b>2019</b> ,		4
176	Model-based control of automotive step-ratio transmissions. <i>International Journal of Powertrains</i> , <b>2014</b> , 3, 197	0.5	4
175	Friction coefficient identification of dry clutch in automated manual transmissions <b>2014</b> ,		4
174	Integrated control of active front steering and direct yaw moment for enhancing lateral vehicle stability <b>2014</b> ,		4
173	LMI-based robust control of uncertain discrete-time piecewise affine systems. <i>Journal of Control Theory and Applications</i> , <b>2010</b> , 8, 496-502		4
172	A reduced-order nonlinear clutch pressure observer for automatic transmission using ISS <b>2008</b> ,		4
171	Design, implementation and experimental verification of a compensator-based triple-step model reference controller for an automotive electronic throttle. <i>Control Engineering Practice</i> , <b>2020</b> , 100, 104447	2.9	4
170	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	4
169	Cyber-physical security framework for Photovoltaic Farms <b>2020</b> ,		4
168	On Disturbance Attenuation of Nonlinear Moving Horizon Control <b>2007</b> , 283-294		4
167	Torque allocation of four-wheel drive EVs considering tire slip energy. <i>Science China Information Sciences</i> , <b>2022</b> , 65, 1	3-4	4
166	Inverse determination of thermal boundary condition and temperature distribution of workpiece during drilling process. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 171, 108822	4.6	4
165	Shift Quality Amelioration of EV with AMT by Speed Regulation. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 910-917	0.7	4
164	A Survey on Trajectory-Prediction Methods for Autonomous Driving. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	4
163	FPGA implementation of extended Kalman filter for SOC estimation of lithium-ion battery in electric vehicle. <i>Asian Journal of Control</i> , <b>2019</b> , 21, 2126-2136	1.7	3
162	Moving horizon shared steering strategy for intelligent vehicle based on potential-hazard analysis. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 541-550	2.4	3
161	On-line shift schedule optimization of electric vehicles with multi-speed AMT using moving horizon strategy <b>2015</b> ,		3
160	Model predictive control of linear stochastic systems with constraints <b>2015</b> ,		3

159	Coordinated Lateral and Longitudinal Vehicle-Following Control of Connected and Automated Vehicles Considering Nonlinear Dynamics <b>2020</b> , 4, 1054-1059		3
158	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 1055-1059	6.8	3
157	Model predictive control of diesel engine start-stop control in an HEV <b>2017</b> ,		3
156	An modular sideslip angle and road grade estimation scheme for four-wheel drive vehicles <b>2016</b> ,		3
155	Establishment and simulation of an electrode averaged model for a lithium-ion battery based on kinetic reactions. <i>RSC Advances</i> , <b>2016</b> , 6, 25435-25443	3.7	3
154	PID slip control based on vertical suspension system for in-wheel-motored electric vehicles <b>2018</b> ,		3
153	Facile Preparation of Haggite by Reducing VO in Guaiacol/Methanol Solution. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 8705-8708	5.1	3
152	Modeling driver's car-following behavior based on hidden Markov model and model predictive control: A cyber-physical system approach <b>2017</b> ,		3
151	A revisit to MPC of discrete-time nonlinear systems <b>2015</b> ,		3
150	Receding horizon following control of wheeled mobile robots: A case study <b>2015</b> ,		3
149	Optimal slip based traction control for electric vehicles using feedback linearization <b>2014</b> ,		3
148	The design of TCS controller for four wheel independent-drive electric vehicle based on ADRC <b>2014</b> ,		3
147	Robust H-infinity control for constrained uncertain systems and its application to active suspension. <i>Journal of Control Theory and Applications</i> , <b>2012</b> , 10, 470-476		3
146	Idle speed controller design for SI engine based on ADRC <b>2012</b> ,		3
145	State feedback stabilization of discrete linear switching systems subject to nonsymmetrical state and control bounds. <i>Journal of Control Theory and Applications</i> , <b>2012</b> , 10, 216-222		3
144	Robust model predictive control with disturbance invariant sets <b>2010</b> ,		3
143	Enlarging the terminal region of quasi-infinite horizon NMPC based on T-S fuzzy model. <i>International Journal of Control, Automation and Systems</i> , <b>2009</b> , 7, 481-486	2.9	3
142	Vehicle velocities estimation based on mixed EKF <b>2011</b> ,		3

141	Stability control of vehicle with tire blowout using differential flatness based MPC method <b>2012</b> ,		3
140	Observer-based controller design of discrete-time piecewise affine systems. <i>Asian Journal of Control</i> , <b>2010</b> , 12, n/a-n/a	1.7	3
139	Feedback Control of Discrete Linear Switching Systems with Bounded State and Control Input in the Presence of Disturbances. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2010</b> , 36, 1115-1121		3
138	Guaranteed Cost Tracking Scheme for Wheeled Mobile Robot with Actuator Saturations via T-S Fuzzy Model <b>2008</b> ,		3
137	Feedback Control of Discrete Linear Switching Systems with Bounded State and Control Input in the Presence of Disturbances. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2010</b> , 36, 1115-1121		3
136	Linear-quadratic output regulator for systems with disturbance: Application to vehicle launch control <b>2016</b> ,		3
135	Lateral stability controller design for electrical vehicle based on active rear wheel steering <b>2016</b> ,		3
134	Nonlinear control of air-feed system for proton exchange membrane fuel cell with auxiliary power battery. <i>Journal of Renewable and Sustainable Energy</i> , <b>2019</b> , 11, 054302	2.5	3
133	A synergy control framework for enlarging vehicle stability region with experimental verification. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	3
132	Optimization of gearshift MAP based on DP for vehicles with automated transmission. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	3
131	Model predictive control for autonomous ground vehicles: a review. <i>Autonomous Intelligent Systems</i> , <b>2021</b> , 1, 1		3
130	Dry Clutch Control of Two-Speed Electric Vehicles by Using an Optimal Control Scheme With Persistent Time-Varying Disturbance Rejection. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 2034-2046	7.6	3
129	Real-Time Longitudinal and Lateral State Estimation of Preceding Vehicle Based on Moving Horizon Estimation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 8755-8768	6.8	3
128	Fuel economy optimization of hybrid electric vehicles <b>2015</b> ,		2
127	Design and handling dynamic analysis of electric vehicle chassis with yaw direction oscillatable battery pack. <i>Vehicle System Dynamics</i> , <b>2020</b> , 1-22	2.8	2
126	Application of decentralized fuzzy inference method for the inverse geometry design of radiative enclosures. <i>Infrared Physics and Technology</i> , <b>2020</b> , 107, 103287	2.7	2
125	Battery state of charge estimation hardware-in-loop system design based on xPC target <b>2016</b> ,		2
124	Angular speed control of brushed DC motor using nonlinear method: Design and experiment <b>2016</b> ,		2

123	Ultrathin Carbon Film Protected Silver Nanostructures for Surface-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 1751-1758	3.1	2
122	A Novel Trajectory Planning Method for Automated Vehicles Under Parameter Decision Framework. <i>IEEE Access</i> , <b>2019</b> , 7, 88264-88274	3.5	2
121	Optimal Lane Change Control of Intelligent Vehicle Based on MPC <b>2019</b> ,		2
120	A dynamic-decoupling controller of current for permanent magnet synchronous motor <b>2017</b> ,		2
119	Linear-quadratic output regulator with disturbance rejection: Application to vehicle launch control <b>2017</b> ,		2
118	Estimation of road grade and vehicle velocity for autonomous driving vehicle <b>2017</b> ,		2
117	Multi-speed torque coupler of hybrid electric vehicle to exploit energy reduction potential. <i>International Journal of Vehicle Design</i> , <b>2015</b> , 69, 255	2.4	2
116	Modeling and predictive control of Free Piston Engine Generator <b>2015</b> ,		2
115	Output feedback controller design of discrete-time linear switching systems. <i>Transactions of the Institute of Measurement and Control</i> , <b>2014</b> , 36, 47-57	1.8	2
114	Torque tracking control of permanent magnet synchronous in-wheel motor for electric vehicle <b>2014</b> ,		2
113	Optimal planning of the clutch slipping control for gear shift of 2-speed electric vehicle <b>2014</b> ,		2
112	Applying model predictive control in automotive <b>2012</b> ,		2
111	Finite horizon model predictive control with ellipsoid mapping of uncertain linear systems. <i>IET Control Theory and Applications</i> , <b>2012</b> , 6, 2820-2828	2.5	2
110	A nonlinear feedforward-feedback controller design for electronic throttle based on flatness <b>2012</b> ,		2
109	Design of Observer-based Output Feedback Clutch Slip Controller for Automatic Transmission. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 5070-5075		2
108	Model Predictive Control of Gear Shift Process in AMT Trucks <b>2011</b> ,		2
107	Control of gearshifts on dual-clutch transmissions during the inertia phase <b>2012</b> ,		2
106	Recognition of contour line from scanned military topographic maps <b>2008</b> ,		2

105	Immunity clone algorithm with particle swarm evolution. <i>Central South University</i> , <b>2006</b> , 13, 703-706		2
104	The research on robust tracking control of constrained wheeled mobile robots <b>2005</b> ,		2
103	Constrained H2 control of active suspensions using LMI optimization <b>2006</b> ,		2
102	Estimation and Analysis of Vehicle Stability Region under Complex Road Conditions <b>2020</b> ,		2
101	Fault-tolerant path-tracking control of autonomous electric ground vehicles with lateral prescribed performance. <i>Transactions of the Institute of Measurement and Control</i> , <b>2020</b> , 42, 1740-1751	1.8	2
100	Support Vector Machine Based Model Predictive Control for Vehicle Path Tracking Control <b>2020</b> ,		2
99	Vulnerability Assessments for Power-Electronics-Based Smart Grids <b>2020</b> ,		2
98	Clutch Engagement Control of AMT Gear Shift <b>2014</b> , 157-178		2
97	Energy Management Strategy of Hybrid Electric Vehicle with Consideration of Road Gradient <b>2020</b> ,		2
96	Ion-bombardment-induced reduction in vacancies and its enhanced effect on conductivity and reflectivity in hafnium nitride films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	2
95	Engine Speed Control During Gear Shifting of AMT HEVs with Identified Intake-to-Power Delay. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 793-799	0.7	2
94	Triple-step nonlinear control design for road vehicles after a tire blow-out on the highway <b>2016</b> ,		2
93	Fast model predictive control based on multiscale system theory <b>2016</b> ,		2
92	Resilient Fault and Attack Detection of DCT Vehicles Using Parity Space Approach <b>2019</b> ,		2
91	Stability and Trajectory Control for Post-Impact Vehicle Based on Fuzzy PID Algorithm <b>2019</b> ,		2
90	Predictive coordinated control of fuel consumption and emissions for diesel engine vehicles under intelligent network environments. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	2
89	Attack-Resilient Lateral Stability Control for Four-Wheel-Driven EVs Considering Changed Driver Behavior Under Cyber Threats. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 1-1	7.6	2
88	Liquid Level Tracking Control of Three-tank Systems <b>2018</b> ,		2

87	A Feedback Linearization Control Scheme Based on Direct Torque Control for Permanent Magnet Synchronous Motor <b>2018</b> ,		2
86	Real-Time nonlinear predictive controller design for drive-by-wire vehicle lateral stability with dynamic boundary conditions. <i>Fundamental Research</i> , <b>2021</b> , 2, 131-131		2
85	Hierarchical Energy-Efficient Control for CAVs at Multiple Signalized Intersections Considering Queue Effects. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-11	6.1	2
84	Vehicle Trajectory Prediction Method Coupled with Ego Vehicle Motion Trend under Dual Attention Mechanism. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	2
83	A novel method for state of health estimation of lithium-ion batteries based on improved LSTM and health indicators extraction. <i>Energy</i> , <b>2022</b> , 251, 123973	7.9	2
82	A Novel Torque Controller with Direct Flux Control for Permanent Magnet Synchronous Motor. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 11589-11594	0.7	1
81	Introduction to the benchmark challenge on common rail pressure control of gasoline direct injection engines. <i>Control Theory and Technology</i> , <b>2019</b> , 17, 167-175	1	1
80	Vehicle Lateral Stability Controller Design for Critical Running Conditions using NMPC Based on Vehicle Dynamics Safety Envelope <b>2019</b> ,		1
79	MPC-Based Downshift Control of Automated Manual Transmissions. <i>Automotive Innovation</i> , <b>2019</b> , 2, 55-63	1.7	1
78	Air path system control of turbocharged gasoline engine based on fuzzy PID <b>2015</b> ,		1
77	Effect of steam blanching on peelability and quality of Blanco. <i>Journal of Food Science and Technology</i> , <b>2021</b> , 58, 3790-3797	3.3	1
76	Nonlinear moving horizon control for following vehicles in truck platooning <b>2018</b> ,		1
75	<b>2014</b> ,		1
74	Vehicle traction control based on optimal slip using sliding mode controller <b>2014</b> ,		1
73	Performance Analysis of a PHEV under Optimal Control Strategy <b>2013</b> ,		1
72	Quasi full information feedback control law of linear systems * *Shuyou Yu, Jing Wang and Hong Chen would like to thank the National Natural Science Foundation of China for financial support within the projects No.61573165 and No.61034001. This research was partially supported by the National Research Foundation of Korea Grant funded by the Korean Government (NRF-2015R1D1A1A01000588). <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 904-909	0.7	1
71	Support vector machine based model predictive control for engine idle speed control <b>2017</b> ,		1
70	Guest Editorial Introduction to the Focused Section on Mechatronics in Automotive Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1497-1498	5.5	1

69	Torque tracking control of turbocharged gasoline engine using nonlinear MPC <b>2015</b> ,		1
68	Integrated control of in-wheel-motored electric vehicles using a model predictive control method <b>2014</b> ,		1
67	Data-driven model predictive control of Air-fuel Ratio for PFISl engine <b>2014</b> ,		1
66	Dynamic matrix control for active queue management based on step response model <b>2010</b> ,		1
65	Motion planning for an autonomous vehicle driving on motorways by using flatness properties <b>2010</b> ,		1
64	BO-ARED: A new AQM algorithm with adaptive adjustment of parameters <b>2010</b> ,		1
63	Active queue management of delay network based on constrained model predictive control <b>2011</b> ,		1
62	On min-max feasible cooperation-based distributed model predictive control <b>2011</b> ,		1
61	Adaptive PID Cascade Control for Superheated Steam Temperature Based on Inverse Model. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2011</b> , 133,	1.7	1
60	Position control of an electric clutch actuator <b>2012</b> ,		1
59	An Algorithm of Enhancing RED Fairness <b>2008</b> ,		1
58	Application of Networked Packet Dropout Compensation Scheme in Three Tank System <b>2008</b> ,		1
57	Study on visualization simulation of complex electromagnetic environment for tactics application <b>2008</b> ,		1
56	H <sub>∞</sub> Control of Three-tank System Over Networks with Packet Dropout <b>2006</b> ,		1
55	A design of h <sub>∞</sub> static output feedback control for constrained discrete-time system using moving horizon scheme <b>2006</b> ,		1
54	Path following and terminal force control of robotic manipulators <b>2020</b> ,		1
53	State Observers for Suspension Systems with Interacting Multiple Model Unscented Kalman Filter Subject to Markovian Switching. <i>International Journal of Automotive Technology</i> , <b>2021</b> , 22, 1459-1473	1.6	1
52	Coordinated Attitude Control of Longitudinal, Lateral and Vertical Tyre Forces for Electric Vehicles Based on Model Predictive Control. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	1

51	A Custom Parallel Hardware Architecture of Nonlinear Model Predictive Control on FPGA. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
50	Kalman Filter-Based Fusion Estimation Method of Steering Feedback Torque for Steer-by-Wire Systems. <i>Automotive Innovation</i> , 1	1.7	1
49	Multi-mode switching-based model predictive control approach for longitudinal autonomous driving with acceleration estimation. <i>IET Intelligent Transport Systems</i> , <b>2020</b> , 14, 2102-2112	2.4	1
48	Integrated control of torque and emission of a diesel engine based on LPV-MPC. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 3610-3620	2.5	1
47	Nash optimality based distributed model predictive control for vehicle platoon. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 6610-6615	0.7	1
46	Clutch Disengagement Timing Control of AMT Gear Shift <b>2014</b> , 147-156		1
45	Pressure Estimation of a Wet Clutch <b>2014</b> , 37-72		1
44	MPC-based strategy for longitudinal and lateral stabilization of a vehicle under extreme conditions. <i>Science China Information Sciences</i> , <b>2022</b> , 65, 1	3.4	1
43	Engine Speed Regulation During Gear Shift Process of Torque Decoupled HEV Using Triple-Step Nonlinear Method. <i>International Journal of Automotive Technology</i> , <b>2021</b> , 22, 415-428	1.6	1
42	Attack-Resilient Lateral Stability Control for Autonomous In-Wheel-Motor-Driven Electric Vehicles <b>2021</b> ,		1
41	Detection and Diagnosis of Long-Term Cyber-Attacks for Predictive Energy Management System in HEVs <b>2021</b> ,		1
40	Loop-Closure Detection With a Multiresolution Point Cloud Histogram Mode in Lidar Odometry and Mapping for Intelligent Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 1307-1317	5.5	1
39	Modular scheme for vehicle tire forces and velocities estimation based on sliding mode observer <b>2016</b> ,		1
38	Constrained output feedback H <sub>∞</sub> control of a four-tank system <b>2016</b> ,		1
37	Model predictive control for uncertain nonlinear systems subject to chance constraints <b>2016</b> ,		1
36	A state observer design based on EKF for diesel engine Urea-SCR system <b>2016</b> ,		1
35	Guaiacol demethoxylation catalyzed by Re <sub>2</sub> O <sub>7</sub> in ethanol. <i>Catalysis Today</i> , <b>2020</b> , 355, 231-237	5.3	1
34	Automated Braking Decision and Control for Pedestrian Collision Avoidance Based On Risk Assessment. <i>IEEE Intelligent Transportation Systems Magazine</i> , <b>2021</b> , 2-22	2.6	1

33	Estimation Road Slope and Longitudinal Velocity for Four-wheel Drive Vehicle. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 572-577	0.7	1
32	A Noise Reduction Method for MEMS Gyroscope Based on Direct Modeling and Kalman Filter. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 172-176	0.7	1
31	Air flow rate and pressure control approach for the air supply subsystems in PEMFCs. <i>ISA Transactions</i> , <b>2021</b> ,	5.5	1
30	Resilient path-following control of autonomous vehicles subject to intermittent denial-of-service attacks. <i>IET Intelligent Transport Systems</i> , <b>2021</b> , 15, 1508	2.4	1
29	A Real-time NMPC Strategy for Electric Vehicle Stability Improvement Combining Torque Vectoring with Rear-wheel Steering. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1	7.6	1
28	Human-Oriented Online Driving Authority Optimization for Driver-Automation Shared Steering Control. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	1
27	Integrated Longitudinal and Lateral Vehicle Stability Control for Extreme Conditions With Safety Dynamic Requirements Analysis. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-14	6.1	1
26	Topology optimization and the evolution trends of two-speed transmission of EVs. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 161, 112390	16.2	1
25	Self-Learning Optimal Cruise Control Based on Individual Car-Following Style. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-12	6.1	0
24	A comprehensive study of speed prediction in transportation system: From vehicle to traffic.. <i>IScience</i> , <b>2022</b> , 25, 103909	6.1	0
23	Cyber-attack Detection for Photovoltaic Farms based on Power-Electronics-Enabled Harmonic State Space Modeling. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 1-1	10.7	0
22	A Coupling Thermal Management Strategy Based on Fuzzy Control for a Range Extended Electric Vehicle Power System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	0
21	Data-Driven Cyber-Attack Detection for PV Farms via Time-Frequency Domain Features. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 1-1	10.7	0
20	Predictive Cruise Control of Full Electric Vehicles: A Comparison of Different Solution Methods. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 120-125	0.7	0
19	A Computationally Efficient Predictive Cruise Control for Automated Electric Vehicles. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 14173-14178	0.7	0
18	Torque Estimation of the Vehicle Drive Shaft <b>2014</b> , 125-146		0
17	Selective demethoxylation of guaiacol to alkylphenols in supercritical methanol over a HT-MoS <sub>2</sub> catalyst. <i>Catalysis Today</i> , <b>2021</b> , 368, 260-271	5.3	0
16	Robust Learning-Based Predictive Control for Discrete-Time Nonlinear Systems With Unknown Dynamics and State Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-14	7.3	0

- 15 Speed planning and energy management strategy of hybrid electric vehicles in a car-following scenario. *Control Theory and Technology*, 1 0
- 14 Moving horizon  $\mathcal{H}_\infty$  control of LPV systems subject to constraints \* \*The authors gratefully acknowledge funding by the German Research Foundation (AL 316/5-1) and the National Science Fund of China for Distinguished Young Scholar under grant No. 60725311. The work was partially supported by the National Natural Science Foundation of China (Grant No. 61673054). 2, 354-359
- 13 CLUTCH-TO-CLUTCH SHIFT CONTROL OF AN AUTOMATIC TRANSMISSION WITH PROPORTIONAL PRESSURE CONTROL VALUES. *Proceedings of the JFPS International Symposium on Fluid Power*, 2008, 2008, 659-664
- 12 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
- 11 Benchmark Study on Real-time Energy Optimization of HEVs under Connected Environment. *IFAC-PapersOnLine*, 2021, 54, 356-362 0.7
- 10 Eco-adaptive cruise control of diesel commercial vehicle in the intelligent network environment. *IFAC-PapersOnLine*, 2021, 54, 271-277 0.7
- 9 Data-Driven Start-Up Control of AMT Vehicle 2014, 179-195
- 8 Inertia Phase Control of the Clutch-to-Clutch Shift Process 2014, 83-124
- 7 Torque Phase Control of the Clutch-to-Clutch Shift Process 2014, 73-81
- 6 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
- 5 Power-on gear downshift of electric vehicles using I-AMT with an overrunning clutch. *International Journal of Powertrains*, 2019, 8, 115 0.5
- 4 Longitudinal-vertical integrated sliding mode controller for distributed electric vehicles. *Science China Information Sciences*, 2020, 63, 1 3.4
- 3 Fast Detection for Cyber Threats in Electric Vehicle Traction Motor Drives. *IEEE Transactions on Transportation Electrification*, 2021, 1-1 7.6
- 2 Predictive Energy Management for Dual-Motor BEVs Considering Temperature-Dependant Traction Inverter Loss. *IEEE Transactions on Transportation Electrification*, 2021, 1-1 7.6
- 1 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