Huie Peng

List of Publications by Year
in descending order

202 papers	13,864 citations	25034 57 h-index	25787 108 g-index
203 all docs	203 docs citations	203 times ranked	7791 citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study of equivalent circuit models for Li-ion batteries. Journal of Power Sources, 2012, 198, 359-367.	7.8	1,500
2	Power management strategy for a parallel hybrid electric truck. IEEE Transactions on Control Systems Technology, 2003, 11, 839-849.	5.2	994
3	Optimal Control of Hybrid Electric Vehicles Based on Pontryagin's Minimum Principle. IEEE Transactions on Control Systems Technology, 2011, 19, 1279-1287.	5.2	614
4	Modeling and Control of a Power-Split Hybrid Vehicle. IEEE Transactions on Control Systems Technology, 2008, 16, 1242-1251.	5.2	508
5	On-board state of health monitoring of lithium-ion batteries using incremental capacity analysis with support vector regression. Journal of Power Sources, 2013, 235, 36-44.	7.8	405
6	Characterization of penetration induced thermal runaway propagation process within a large format lithium ion battery module. Journal of Power Sources, 2015, 275, 261-273.	7.8	372
7	Power management and design optimization of fuel cell/battery hybrid vehicles. Journal of Power Sources, 2007, 165, 819-832.	7.8	289
8	A unified open-circuit-voltage model of lithium-ion batteries for state-of-charge estimation and state-of-health monitoring. Journal of Power Sources, 2014, 258, 228-237.	7.8	273
9	Differential-Braking-Based Rollover Prevention for Sport Utility Vehicles with Human-in-the-loop Evaluations. Vehicle System Dynamics, 2001, 36, 359-389.	3.7	265
10	Range Policy of Adaptive Cruise Control Vehicles for Improved Flow Stability and String Stability. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 229-237.	8.0	260
11	Optimal Adaptive Cruise Control with Guaranteed String Stability. Vehicle System Dynamics, 1999, 32, 313-330.	3.7	251
12	Accelerated Evaluation of Automated Vehicles Safety in Lane-Change Scenarios Based on Importance Sampling Techniques. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 595-607.	8.0	237
13	State-of-health monitoring of lithium-ion battery modules and packs via incremental capacity peak tracking. Applied Energy, 2016, 180, 360-368.	10.1	235
14	Comparative Study of Dynamic Programming and Pontryagin's Minimum Principle on Energy Management for a Parallel Hybrid Electric Vehicle. Energies, 2013, 6, 2305-2318.	3.1	193
15	Design, Analysis, and Experiments of Preview Path Tracking Control for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 48-58.	8.0	188
16	Optimal Power Management for a Hydraulic Hybrid Delivery Truck. Vehicle System Dynamics, 2004, 42, 23-40.	3.7	182
17	Optimal decentralized charging control algorithm for electrified vehicles connected to smart grid. Journal of Power Sources, 2011, 196, 10369-10379.	7.8	181
18	Fractional-order modeling and parameter identification for lithium-ion batteries. Journal of Power Sources, 2015, 293, 151-161.	7.8	174

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19	Vehicle Lateral Control for Highway Automation. , 1990, , .		165
20	Robustness analysis of State-of-Charge estimation methods for two types of Li-ion batteries. Journal of Power Sources, 2012, 217, 209-219.	7.8	163
21	Preview Control for Vehicle Lateral Guidance in Highway Automation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 679-686.	1.6	156
22	Characterization of large format lithium ion battery exposed to extremely high temperature. Journal of Power Sources, 2014, 272, 457-467.	7.8	142
23	An electrochemistry-based impedance model for lithium-ion batteries. Journal of Power Sources, 2014, 258, 9-18.	7.8	140
24	Charging time and loss optimization for LiNMC and LiFePO4 batteries based on equivalent circuit models. Journal of Power Sources, 2013, 239, 449-457.	7.8	127
25	Minimum Fuel Control Strategy in Automated Car-Following Scenarios. IEEE Transactions on Vehicular Technology, 2012, 61, 998-1007.	6.3	125
26	Accelerated Evaluation of Automated Vehicles in Car-Following Maneuvers. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 733-744.	8.0	124
27	State-of-Charge Estimation for Lithium-Ion Batteries Based on a Nonlinear Fractional Model. IEEE Transactions on Control Systems Technology, 2017, 25, 3-11.	5.2	121
28	Correct-by-Construction Adaptive Cruise Control: Two Approaches. IEEE Transactions on Control Systems Technology, 2016, 24, 1294-1307.	5.2	114
29	Obstacle Avoidance for Low-Speed Autonomous Vehicles With Barrier Function. IEEE Transactions on Control Systems Technology, 2018, 26, 194-206.	5.2	113
30	A stochastic control strategy for hybrid electric vehicles. , 2004, , .		112
31	Robust Estimation of Road Frictional Coefficient. IEEE Transactions on Control Systems Technology, 2013, 21, 1-13.	5.2	108
32	Eco-Departure of Connected Vehicles With V2X Communication at Signalized Intersections. IEEE Transactions on Vehicular Technology, 2015, 64, 5439-5449.	6.3	107
33	Control of Integrated Powertrain With Electronic Throttle and Automatic Transmission. IEEE Transactions on Control Systems Technology, 2007, 15, 474-482.	5.2	103
34	An experimental study and model validation of a membrane humidifier for PEM fuel cell humidification control. Journal of Power Sources, 2008, 180, 461-467.	7.8	100
35	Vehicle dynamics applications of optimal control theory. Vehicle System Dynamics, 2011, 49, 1073-1111.	3.7	99
36	Adaptive robust force control for vehicle active suspensions. International Journal of Adaptive Control and Signal Processing, 2004, 18, 83-102.	4.1	94

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37	Driving Pattern Recognition for Control of Hybrid Electric Trucks. Vehicle System Dynamics, 2004, 42, 41-58.	3.7	92
38	A systematic design approach for two planetary gear split hybrid vehicles. Vehicle System Dynamics, 2010, 48, 1395-1412.	3.7	90
39	Water distribution measurement for a PEMFC through neutron radiography. Journal of Power Sources, 2007, 170, 376-386.	7.8	86
40	A study on lateral speed estimation methods. International Journal of Vehicle Autonomous Systems, 2004, 2, 126.	0.2	83
41	A Rule-Based Cooperative Merging Strategy for Connected and Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3436-3446.	8.0	81
42	Supervisory Control of Parallel Hybrid Electric Vehicles for Fuel and Emission Reduction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	1.6	79
43	Modeling of wheel–soil interaction over rough terrain using the discrete element method. Journal of Terramechanics, 2013, 50, 277-287.	3.1	78
44	Optimal Energy and Catalyst Temperature Management of Plug-in Hybrid Electric Vehicles for Minimum Fuel Consumption and Tail-Pipe Emissions. IEEE Transactions on Control Systems Technology, 2013, 21, 14-26.	5.2	74
45	Robust estimation of road friction coefficient using lateral and longitudinal vehicle dynamics. Vehicle System Dynamics, 2012, 50, 961-985.	3.7	73
46	Synthesis of Realistic Driving Cycles With High Accuracy and Computational Speed, Including Slope Information. IEEE Transactions on Vehicular Technology, 2016, 65, 4118-4128.	6.3	72
47	Model predictive control for starvation prevention in a hybrid fuel cell system. , 2004, , .		72
48	Decentralized Voltage Control to Minimize Distribution Power Loss of Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1297-1304.	9.0	70
49	Effect of Pulse–and–Glide Strategy on Traffic Flow for a Platoon of Mixed Automated and Manually Driven Vehicles. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 892-905.	9.8	69
50	Inverse-Dynamics Based State and Disturbance Observers for Linear Time-Invariant Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 375-381.	1.6	66
51	A Near-Optimal Power Management Strategy for Rapid Component Sizing of Multimode Power Split Hybrid Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 609-618.	5.2	66
52	Design and Analysis of an Electrical Variable Transmission for a Series–Parallel Hybrid Electric Vehicle. IEEE Transactions on Vehicular Technology, 2011, 60, 2354-2363.	6.3	65
53	Fuel-Optimal Cruising Strategy for Road Vehicles With Step-Gear Mechanical Transmission. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3496-3507.	8.0	65
54	Modelling and control strategy development for fuel cell electric vehicles. Annual Reviews in Control, 2005, 29, 159-168.	7.9	64

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55	Robust Vehicle Sideslip Angle Estimation Through a Disturbance Rejection Filter That Integrates a Magnetometer With GPS. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 191-204.	8.0	64
56	Design of Multimode Power-Split Hybrid Vehicles—A Case Study on the Voltec Powertrain System. IEEE Transactions on Vehicular Technology, 2016, 65, 4790-4801.	6.3	63
57	A Thermodynamic Model of Membrane Humidifiers for PEM Fuel Cell Humidification Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 424-432.	1.6	62
58	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	9.0	62
59	A Cost-Effective Sideslip Estimation Method Using Velocity Measurements From Two GPS Receivers. IEEE Transactions on Vehicular Technology, 2014, 63, 2589-2599.	6.3	61
60	Control of natural gas catalytic partial oxidation for hydrogen generation in fuel cell applications. IEEE Transactions on Control Systems Technology, 2005, 13, 3-14.	5.2	60
61	Energy management strategy for a parallel hybrid electric truck. , 2001, , .		59
62	SP-SDP for Fuel Consumption and Tailpipe Emissions Minimization in an EVT Hybrid. IEEE Transactions on Control Systems Technology, 2010, 18, 673-687.	5.2	59
63	Combined Optimal Sizing and Control for a Hybrid Tracked Vehicle. Energies, 2012, 5, 4697-4710.	3.1	58
64	Fuel-Saving Cruising Strategies for Parallel HEVs. IEEE Transactions on Vehicular Technology, 2016, 65, 4676-4686.	6.3	55
65	Rollover Warning for Articulated Heavy Vehicles Based on a Time-to-Rollover Metric. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 406-414.	1.6	54
66	Preview Path Tracking Control With Delay Compensation for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2979-2989.	8.0	54
67	Model Parametrization and Adaptation Based on the Invariance of Support Vectors With Applications to Battery State-of-Health Monitoring. IEEE Transactions on Vehicular Technology, 2015, 64, 3908-3917.	6.3	51
68	Traction/Braking Force Distribution for Optimal Longitudinal Motion During Curve Following. Vehicle System Dynamics, 1996, 26, 301-320.	3.7	49
69	Methodology for assessing adaptive cruise control behavior. IEEE Transactions on Intelligent Transportation Systems, 2003, 4, 123-131.	8.0	49
70	Development and evaluation of collision warning/collision avoidance algorithms using an errable driver model. Vehicle System Dynamics, 2010, 48, 525-535.	3.7	47
71	Simultaneous optimization of topology, control and size for multi-mode hybrid tracked vehicles. Applied Energy, 2018, 212, 1627-1641.	10.1	47
72	Minimize the Fuel Consumption of Connected Vehicles Between Two Red-Signalized Intersections in Urban Traffic. IEEE Transactions on Vehicular Technology, 2018, 67, 9060-9072.	6.3	47

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73	Rapid Configuration Design of Multiple-Planetary-Gear Power-Split Hybrid Powertrain via Mode Combination. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2924-2934.	5.8	46
74	Empirical Study of DSRC Performance Based on Safety Pilot Model Deployment Data. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2619-2628.	8.0	45
75	Preview Control for Vehicle Lateral Guidance in Highway Automation. , 1991, , .		43
76	Control of Engine-Starts for Optimal Drivability of Parallel Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	43
77	Control optimization for a power-split hybrid vehicle. , 2006, , .		42
78	Comparison of discrete element method and traditional modeling methods for steady-state wheel-terrain interaction of small vehicles. Journal of Terramechanics, 2014, 56, 61-75.	3.1	42
79	Hybrid Lithium Iron Phosphate Battery and Lithium Titanate Battery Systems for Electric Buses. IEEE Transactions on Vehicular Technology, 2018, 67, 956-965.	6.3	42
80	Design and Comparison of Fuel-Saving Speed Planning Algorithms for Automated Vehicles. IEEE Access, 2018, 6, 9070-9080.	4.2	41
81	A Theoretical and Experimental Study on Vehicle Lateral Control. , 1992, , .		39
82	Output Feedback H_{infty} Preview Control of an Electromechanical Valve Actuator. IEEE Transactions on Control Systems Technology, 2007, 15, 428-437.	5.2	39
83	Simultaneous Optimization of Topology and Component Sizes for Double Planetary Gear Hybrid Powertrains. Energies, 2016, 9, 411.	3.1	38
84	Hybrid Electric Powertrain Design Methodology With Planetary Gear Sets for Performance and Fuel Economy. IEEE Access, 2018, 6, 9585-9602.	4.2	38
85	Simultaneous mass and time-varying grade estimation for heavy-duty vehicles. , 0, , .		37
86	A segmented model for studying water transport in a PEMFC. Journal of Power Sources, 2008, 185, 1179-1192.	7.8	37
87	Hybrid Electric Vehicle Powertrain and Control Strategy Optimization to Maximize the Synergy with a Gasoline HCCI Engine. SAE International Journal of Engines, 0, 4, 1115-1126.	0.4	37
88	Energy management of plug-in hybrid electric vehicles with unknown trip length. Journal of the Franklin Institute, 2015, 352, 500-518.	3.4	37
89	A Worst-Case Evaluation Method for Dynamic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 191-199.	1.6	36
90	Online estimation of an electric vehicle Lithium-Ion battery using recursive least squares with forgetting. , 2011, , .		35

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91	Identification and verification of a longitudinal human driving model for collision warning and avoidance systems. International Journal of Vehicle Autonomous Systems, 2004, 2, 3.	0.2	34
92	Impact of controlled plug-in EVs on microgrids: A military microgrid example. , 2011, , .		31
93	Vehicle Energy Dataset (VED), A Large-Scale Dataset for Vehicle Energy Consumption Research. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3302-3312.	8.0	30
94	Highway Exiting Planner for Automated Vehicles Using Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 990-1000.	8.0	30
95	Real-Time Power Management of Integrated Power Systems in All Electric Ships Leveraging Multi Time Scale Property. IEEE Transactions on Control Systems Technology, 2011, , .	5.2	29
96	An Augmented Reality Environment for Connected and Automated Vehicle Testing and Evaluation. , 2018, , .		29
97	A real-time rollover threat index for sports utility vehicles. , 1999, , .		28
98	Preliminary results on correct-by-construction control software synthesis for adaptive cruise control. , 2014, , .		28
99	Accurate and Smooth Speed Control for an Autonomous Vehicle. , 2018, , .		28
100	Predicting current density distribution of proton exchange membrane fuel cells with different flow field designs. Journal of Power Sources, 2011, 196, 1992-2004.	7.8	27
101	Evaluation of automated vehicles encountering pedestrians at unsignalized crossings. , 2017, , .		27
102	Penetration effect of connected and automated vehicles on cooperative on–ramp merging. IET Intelligent Transport Systems, 2020, 14, 56-64.	3.0	27
103	SUPER: A Novel Lane Detection System. IEEE Transactions on Intelligent Vehicles, 2021, 6, 583-593.	12.7	27
104	Decentralized and Real-Time Power Dispatch Control for an Islanded Microgrid Supported by Distributed Power Sources. Energies, 2013, 6, 6439-6454.	3.1	26
105	Speed trajectory planning at signalized intersections using sequential convex optimization. , 2017, , .		26
106	Data-Driven Computation of Minimal Robust Control Invariant Set. , 2018, , .		26
107	Power consumption of tracked and wheeled small mobile robots on deformable terrains–model and experimental validation. Mechanism and Machine Theory, 2019, 133, 347-364.	4.5	26
108	Confidence-Aware Reinforcement Learning for Self-Driving Cars. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7419-7430.	8.0	26

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109	Terramechanics-based wheel–terrain interaction model and its applications to off-road wheeled mobile robots. Robotica, 2012, 30, 491-503.	1.9	25
110	Adaptive robust control for active suspensions. , 1999, , .		24
111	Collision model for vehicle motion prediction after light impacts. Vehicle System Dynamics, 2008, 46, 3-15.	3.7	23
112	Mode Shift Schedule and Control Strategy Design of Multimode Hybrid Powertrain. IEEE Transactions on Control Systems Technology, 2020, 28, 804-815.	5.2	23
113	A reference governor-based hierarchical control for failure mode power management of hybrid power systems for all-electric ships. Journal of Power Sources, 2011, 196, 1599-1607.	7.8	22
114	Accelerated Evaluation of Autonomous Vehicles in the Lane Change Scenario Based on Subset Simulation Technique. , 2018, , .		22
115	Improving Localization Accuracy in Connected Vehicle Networks Using Rao–Blackwellized Particle Filters: Theory, Simulations, and Experiments. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2255-2266.	8.0	22
116	Worst-Case Vehicle Evaluation Methodology ? Examples on Truck Rollover/Jackknifing and Active Yaw Control Systems. Vehicle System Dynamics, 1999, 32, 389-408.	3.7	21
117	Transient air-fuel ratio H/sub /spl infin// preview control of a drive-by-wire internal combustion engine. , 2001, , .		21
118	Engine-in-the-loop study of the stochastic dynamic programming optimal control design for a hybrid electric HMMWV. International Journal of Heavy Vehicle Systems, 2008, 15, 309.	0.2	21
119	An Apparatus to Measure Wheel–Soil Interactions on Sandy Terrains. IEEE/ASME Transactions on Mechatronics, 2018, 23, 352-363.	5.8	21
120	Fast analytical models of wheeled locomotion in deformable terrain for mobile robots. Robotica, 2013, 31, 35-53.	1.9	20
121	Force tracking control for active suspensions-theory and experiments. , 0, , .		19
122	Design and Experiments of Safeguard Protected Preview Lane Keeping Control for Autonomous Vehicles. IEEE Access, 2020, 8, 29944-29953.	4.2	19
123	Control of natural gas catalytic partial oxidation for hydrogen generation in fuel cell applications. , 0, , .		18
124	Estimation of road friction for enhanced active safety systems: Algebraic approach. , 2009, , .		18
125	Decentralized charging algorithm for electrified vehicles connected to smart grid. , 2011, , .		18
126	Trustworthy safety improvement for autonomous driving using reinforcement learning. Transportation Research Part C: Emerging Technologies, 2022, 138, 103656.	7.6	18

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127	Gap Acceptance During Lane Changes by Large-Truck Driversâ€"An Image-Based Analysis. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 772-781.	8.0	17
128	An Experimental Study on Lateral Control of a Vehicle. , 1991, , .		16
129	A hierarchical optimal control strategy for power management of hybrid power systems in all electric ships applications. , 2010, , .		16
130	Fast Trajectory Planning and Robust Trajectory Tracking for Pedestrian Avoidance. IEEE Access, 2017, 5, 9304-9317.	4.2	16
131	Progress review of US-China joint research on advanced technologies for plug-in electric vehicles. Science China Technological Sciences, 2018, 61, 1431-1445.	4.0	16
132	System and Experiments of Model-Driven Motion Planning and Control for Autonomous Vehicles. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5975-5988.	9.3	16
133	A Reusability Study of Vehicle Lateral Control System. Vehicle System Dynamics, 1994, 23, 259-278.	3.7	15
134	Modeling and simulation of a PEM fuel cell humidification system. , 2004, , .		15
135	Estimation of road friction for enhanced active safety systems: Dynamic approach. , 2009, , .		15
136	Predictive control and sizing of energy storage to mitigate wind power intermittency. Wind Energy, 2016, 19, 437-451.	4.2	15
137	Design and Test of Speed Tracking Control for the Self-Driving Lincoln MKZ Platform. IEEE Transactions on Intelligent Vehicles, 2020, 5, 324-334.	12.7	15
138	Designing Multi-Mode Power Split Hybrid Electric Vehicles Using the Hierarchical Topological Graph Theory. IEEE Transactions on Vehicular Technology, 2020, 69, 7159-7171.	6.3	15
139	Graph-Embedded Lane Detection. IEEE Transactions on Image Processing, 2021, 30, 2977-2988.	9.8	15
140	Modeling Multi-Vehicle Interaction Scenarios Using Gaussian Random Field. , 2019, , .		14
141	Testing, modeling, and control of a fuel cell hybrid vehicle. , 0, , .		13
142	Developing Robot Driver Etiquette Based on Naturalistic Human Driving Behavior. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1393-1403.	8.0	13
143	Integration of plug-in electric vehicle charging and wind energy scheduling on electricity grid. , 2012, , .		12
144	Optimal Engine Starts of an Input-Split Hybrid Electric Vehicle. SAE International Journal of Alternative Powertrains, 0, 4, 343-351.	0.8	12

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145	Discretionary Lane Change Decision Making using Reinforcement Learning with Model-Based Exploration. , 2019, , .		12
146	Enhancing the Performance of a Safe Controller Via Supervised Learning for Truck Lateral Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	12
147	A novel active suspension design technique-simulation and experimental results. , 1997, , .		11
148	Worst-case evaluation for integrated chassis control systems. Vehicle System Dynamics, 2008, 46, 329-340.	3.7	11
149	MPC for reducing energy storage requirement of wind power systems. , 2013, , .		11
150	Hybrid and Electrified Vehicles. Mechanical Engineering, 2013, 135, S10-S17.	0.1	11
151	Modular adaptive robust control of SISO nonlinear systems in a semi-strict feedback form. International Journal of Robust and Nonlinear Control, 2004, 14, 581-601.	3.7	10
152	Analysis of non-minimum phase behavior of PEM fuel cell membrane humidification systems. , 0, , .		10
153	Connected and Automated Vehicles. Mechanical Engineering, 2016, 138, S5-S11.	0.1	10
154	Optimal Design of a Novel Hybrid Electric Powertrain for Tracked Vehicles. Energies, 2017, 10, 2141.	3.1	10
155	Eco-driving at Signalized Intersections: What is Possible in the Real-World?. , 2018, , .		10
156	Pulse-and-Glide Operation for Parallel Hybrid Electric Vehicles with Step-Gear Transmission in Automated Car-Following Scenario with Ride Comfort Consideration. , 2019, , .		10
157	Linear estimator for road departure warning systems. , 2004, , .		9
158	Robust estimation of road friction coefficient. , 2011, , .		9
159	Life cycle cost analysis of wind power considering stochastic uncertainties. Energy, 2014, 75, 411-418.	8.8	9
160	Validating Noncooperative Control Designs Through a Lyapunov Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 527-539.	5.2	9
161	Power Loss Minimization in Islanded Microgrids: A Communication-Free Decentralized Power Control Approach Using Extremum Seeking. IEEE Access, 2019, 7, 20879-20893.	4.2	9
162	A novel power management strategy for hybrid off-road vehicles. Control Engineering Practice, 2020, 101, 104452.	5.5	8

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163	Vehicle stabilization in response to exogenous impulsive disturbances to the vehicle body. , 2009, , .		7
164	Adaptive model predictive control for co-ordination of compression and friction brakes in heavy duty vehicles. International Journal of Adaptive Control and Signal Processing, 2006, 20, 581-598.	4.1	6
165	Study on the optimal design of engine cylinder head by parametric structure characterization with weight distribution criterion. Journal of Mechanical Science and Technology, 2011, 25, 2607-2614.	1.5	6
166	Velocity occupancy space: autonomous navigation in an uncertain, dynamic environment. International Journal of Vehicle Autonomous Systems, 2012, 10, 41.	0.2	6
167	A near-optimal power management strategy for rapid component sizing of power split hybrid vehicles with multiple operating modes. , 2013, , .		6
168	A Method for the Exploration of Hybrid Electric Powertrain Architectures with Two Planetary Gearsets. SAE International Journal of Alternative Powertrains, 2016, 5, 94-108.	0.8	6
169	Modelling of uncertain reactive human driving behavior: a classification approach. , 2018, , .		6
170	Generating Socially Acceptable Perturbations for Efficient Evaluation of Autonomous Vehicles. , 2020, , .		6
171	Combined Eco-Routing and Power-Train Control of Plug-In Hybrid Electric Vehicles in Transportation Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11287-11300.	8.0	6
172	LQ and H/sub /spl infin// preview control for a durability simulator. , 1997, , .		6
173	Comprehensive Safety Evaluation of Highly Automated Vehicles at the Roundabout Scenario. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20873-20888.	8.0	6
174	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid. , 2012, , .		5
175	Reducing CO_2 emissions on the electric grid through a carbon disincentive policy. Energy Policy, 2013, 60, 793-802.	8.8	5
176	Efficient Mobility-on-Demand System with Ride-Sharing. , 2018, , .		5
177	Combining Reachability Analysis and Importance Sampling for Accelerated Evaluation of Highway Automated Vehicles at Pedestrian Crossing. ASME Letters in Dynamic Systems and Control, 2021, 1, .	0.7	5
178	CLAP: Cloud-and-Learning-compatible Autonomous driving Platform. , 2020, , .		5
179	Disturbance estimation based tracking control for a robotic manipulator. , 1997, , .		4
180	A unified framework for LQ and H/sub âˆž/ preview control algorithms. , 0, , .		4

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181	Range policy of adaptive cruise control for improved flow stability and string stability. , 0, , .		4
182	A simplified skid-steering model for torque and power analysis of tracked small unmanned ground vehicles. , 2013, , .		4
183	HIGHWAY-LEVEL VEHICLE CONTROL FOR AHS. I V H S Journal, 1995, 2, 293-310.	0.2	3
184	Worst-case manoeuvres for the roll-over and jackknife of articulated vehicles. , 1998, , .		3
185	A Numerically Efficient Iterative Procedure for Hybrid Power System Optimization Using Sensitivity Functions. Proceedings of the American Control Conference, 2007, , .	0.0	3
186	Nonminimum-Phase Phenomenon of PEM Fuel Cell Membrane Humidifiers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	1.6	3
187	Correct by construction design of autonomous vehicles through a barrier function method. , 2017, , .		3
188	Landmark Attribute Analysis for a High-Precision Landmark-Based Local Positioning System. IEEE Access, 2021, 9, 18061-18071.	4.2	3
189	Keeping Ground Robots on the Move Through Battery & Mission Management. Mechanical Engineering, 2014, 136, S1-S6.	0.1	3
190	Combined control/plant optimization of fuel cell hybrid vehicles. , 2006, , .		2
191	Fast and robust 2D minkowski sum using reduced convolution. , 2011, , .		2
192	Eco-Mobility-on-Demand Fleet Control With Ride-Sharing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3158-3168.	8.0	2
193	Link-layer vehicle control system for ITS. , 0, , .		1
194	Fast computation of wheel-soil interactions for safe and efficient operation of mobile robots. , 2011, , .		1
195	Optimal catalyst temperature management of Plug-in Hybrid Electric Vehicles. , 2011, , .		1
196	Synchronization of Pulse-and-Glide Operation in Vehicle Platooning using Cooperative Adaptive Cruise Control. , 2020, , .		1
197	Decentralized Ride-sharing of Shared Autonomous Vehicles Using Graph Neural Network-Based Reinforcement Learning. , 2022, , .		1
198	Selected Papers from AVEC 2000. Vehicle System Dynamics, 2001, 36, 75-76.	3.7	0

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199	A reference governor approach for dynamic reconfiguration of hybrid power systems. , 2010, , .		0
200	Transportation electrification education for K-12 students. , 2011, , .		0
201	Decentralized chassis control with guaranteed performance: A lyapunov approach. , 2017, , .		0
202	Optimal design of power-split hybrid tracked vehicles using two planetary gears. International Journal of Vehicle Design, 2018, 77, 43.	0.3	0