

Haobin Jiang

List of Publications by Citations

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

84 papers	940 citations	16 h-index	26 g-index
91 ext. papers	1,230 ext. citations	3.1 avg, IF	5.06 L-index

#	Paper	IF	Citations
84	High-Performance Control for a Bearingless Permanent-Magnet Synchronous Motor Using Neural Network Inverse Scheme Plus Internal Model Controllers. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3479-3488	8.9	167
83	Trajectory-based anomalous behaviour detection for intelligent traffic surveillance. <i>IET Intelligent Transport Systems</i> , 2015 , 9, 810-816	2.4	49
82	VSe2/graphene nanocomposites as anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2015 , 141, 35-38	3.3	41
81	A comparative study on machine learning based algorithms for prediction of motorcycle crash severity. <i>PLoS ONE</i> , 2019 , 14, e0214966	3.7	34
80	Passive fault-tolerant path following control of autonomous distributed drive electric vehicle considering steering system fault. <i>Mechanical Systems and Signal Processing</i> , 2019 , 123, 298-315	7.8	32
79	Parametric modeling and multiobjective crashworthiness design optimization of a new front longitudinal beam. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 1789-1812	3.6	31
78	Multi-objective reliability-based design optimization for the VRB-VCS FLB under front-impact collision. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 1835-1851	3.6	29
77	Research on the heat dissipation performance of lithium-ion cell with different operating conditions. <i>International Journal of Energy Research</i> , 2017 , 41, 1642-1654	4.5	26
76	Severity prediction of motorcycle crashes with machine learning methods. <i>International Journal of Crashworthiness</i> , 2020 , 25, 485-492	1	25
75	Implementation and Development of a Trajectory Tracking Control System for Intelligent Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 94, 251-264	2.9	24
74	Research on Automatic Parking Systems Based on Parking Scene Recognition. <i>IEEE Access</i> , 2017 , 5, 21901-21913	3.3	23
73	A multinomial logit analysis of factors associated with severity of motorcycle crashes in Ghana. <i>Traffic Injury Prevention</i> , 2019 , 20, 521-527	1.8	19
72	Passive actuator-fault-tolerant path following control of autonomous ground electric vehicle with in-wheel motors. <i>Advances in Engineering Software</i> , 2019 , 134, 22-30	3.6	19
71	Multi-Objective Coordination Control Strategy of Distributed Drive Electric Vehicle by Orientated Tire Force Distribution Method. <i>IEEE Access</i> , 2018 , 6, 69559-69574	3.5	19
70	Surface modification of coordination polymers to enable the construction of CoP/N,P-codoped carbon nanowires towards high-performance lithium storage. <i>Journal of Colloid and Interface Science</i> , 2020 , 565, 503-512	9.3	17
69	In situ synthesis of hierarchical mesoporous Fe ₃ O ₄ @C nanowires derived from coordination polymers for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2014 , 4, 51960-51965	3.7	17
68	Stability Research of Distributed Drive Electric Vehicle by Adaptive Direct Yaw Moment Control. <i>IEEE Access</i> , 2019 , 7, 106225-106237	3.5	16

67	Theoretical prediction and crashworthiness optimization of top-hat thin-walled structures under transverse loading. <i>Thin-Walled Structures</i> , 2019 , 144, 106261	4.7	16
66	Night-Time Vehicle Detection Algorithm Based on Visual Saliency and Deep Learning. <i>Journal of Sensors</i> , 2016 , 2016, 1-7	2	16
65	Linear model predictive control of automatic parking path tracking with soft constraints. <i>International Journal of Advanced Robotic Systems</i> , 2019 , 16, 172988141985220	1.4	15
64	Sulfur/microporous carbon composites for Li-S battery. <i>Ionics</i> , 2015 , 21, 2161-2170	2.7	14
63	Traffic State Spatial-Temporal Characteristic Analysis and Short-Term Forecasting Based on Manifold Similarity. <i>IEEE Access</i> , 2018 , 6, 9690-9702	3.5	13
62	Estimation of Longitudinal Force and Sideslip Angle for Intelligent Four-Wheel Independent Drive Electric Vehicles by Observer Iteration and Information Fusion. <i>Sensors</i> , 2018 , 18,	3.8	13
61	Learning Human-Like Trajectory Planning on Urban Two-Lane Curved Roads From Experienced Drivers. <i>IEEE Access</i> , 2019 , 7, 65828-65838	3.5	12
60	Coordinated control for path following of two-wheel independently actuated autonomous ground vehicle. <i>IET Intelligent Transport Systems</i> , 2019 , 13, 628-635	2.4	12
59	N,S co-doped carbon confined MnO/MnS heterostructures derived from a one-step pyrolysis of Mn-methionine frameworks for advanced lithium storage. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158451	5.7	12
58	Crashworthiness optimization of VRB thin-walled structures under manufacturing constraints by the eHCA-VRB algorithm. <i>Applied Mathematical Modelling</i> , 2020 , 80, 126-150	4.5	11
57	A Comparative Study of Clustering Analysis Method for Driver's Steering Intention Classification and Identification under Different Typical Conditions. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1014	2.6	10
56	Path Tracking Control of Automatic Parking Cloud Model considering the Influence of Time Delay. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-14	1.1	10
55	Probability Based Survey of Braking System: A Pareto-Optimal Approach. <i>IEEE Access</i> , 2020 , 8, 128385-128406	3.9	10
54	Trajectory planning and optimisation method for intelligent vehicle lane changing emergently. <i>IET Intelligent Transport Systems</i> , 2018 , 12, 1336-1344	2.4	10
53	An electronically controlled hydraulic power steering system for heavy vehicles. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401667956	1.2	9
52	Design of Vehicle Running States-Fused Estimation Strategy Using Kalman Filters and Tire Force Compensation Method. <i>IEEE Access</i> , 2019 , 7, 87273-87287	3.5	9
51	Study on Path Planning Method for Imitating the Lane-Changing Operation of Excellent Drivers. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 814	2.6	8
50	Automatic Parking Path Planning and Tracking Control Research for Intelligent Vehicles. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9100	2.6	8

49	Anti-Congestion Route Planning Scheme Based on Dijkstra Algorithm for Automatic Valet Parking System. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5016	2.6	8
48	Human-Like Trajectory Planning on Curved Road: Learning From Human Drivers. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 3388-3397	6.1	8
47	Research on Switching Interconnection Modes and Game Control of Interconnected Air Suspension. <i>Energies</i> , 2019 , 12, 3218	3.1	7
46	Short-Time Traffic State Forecasting Using Adaptive Neighborhood Selection Based on Expansion Strategy. <i>IEEE Access</i> , 2018 , 6, 48210-48223	3.5	7
45	Integrated model of assisted parking system and performance evaluation with entropy weight extended analytic hierarchy process and two-tuple linguistic information. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401665463	1.2	6
44	Implementation of Human-Like Driver Model Based on Recurrent Neural Networks. <i>IEEE Access</i> , 2019 , 7, 98094-98106	3.5	6
43	Study on Low-Speed Steering Resistance Torque of Vehicles Considering Friction between Tire and Pavement. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1015	2.6	5
42	A New Single Point Preview-Based Human-Like Driver Model on Urban Curved Roads. <i>IEEE Access</i> , 2020 , 8, 107452-107464	3.5	5
41	Direct yaw-moment control of in-wheel electric vehicle by sliding mode technique 2016 ,		5
40	SAES: A self-checking authentication scheme with higher efficiency and security for VANET. <i>Peer-to-Peer Networking and Applications</i> , 2021 , 14, 528-540	3.1	5
39	Robust state-of-charge estimation for lithium-ion batteries based on an improved gas-liquid dynamics model. <i>Energy</i> , 2022 , 238, 122008	7.9	5
38	Automated Parking Space Allocation during Transition with both Human-Operated and Autonomous Vehicles. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 855	2.6	5
37	ANFTS Mode Control for an Electronically Controlled Hydraulic Power Steering System on a Permanent Magnet Slip Clutch. <i>Energies</i> , 2019 , 12, 1739	3.1	4
36	Research on Control of Intelligent Vehicle Human-Simulated Steering System Based on HSIC. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 905	2.6	4
35	Model predictive driver model considering the steering characteristics of the skilled drivers. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401982933	1.2	4
34	Parking Space and Obstacle Detection Based on a Vision Sensor and Checkerboard Grid Laser. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2582	2.6	4
33	Pedestrian detection algorithm in traffic scene based on weakly supervised hierarchical deep model. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141769231	1.4	4
32	Analyzing the Coordination Relationship between Urban Built Environment and Traffic Level. <i>Journal of Advanced Transportation</i> , 2021 , 2021, 1-11	1.9	4

31	A new gas-liquid dynamics model towards robust state of charge estimation of lithium-ion batteries. <i>Journal of Energy Storage</i> , 2020 , 29, 101343	7.8	4
30	Crystal structure and electrochemical performance of La _{0.75} Ce _{0.25} Ni _{3.46} -Al _{0.17} Mn _{0.04} Co _{1.33} alloy for high-power-type 29 Ah Ni-MH battery. <i>Journal of Rare Earths</i> , 2015 , 33, 633-638	3.7	3
29	A High-Performance Control Method of ConstantV/f-Controlled Induction Motor Drives for Electric Vehicles. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-10	1.1	3
28	Thickness-based subdomian hybrid cellular automata algorithm for lightweight design of BIW under side collision. <i>Applied Mathematical Modelling</i> , 2022 , 102, 170-193	4.5	3
27	Parking Space Recognition Method Based on Parking Space Feature Construction in the Scene of Autonomous Valet Parking. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2759	2.6	3
26	Reliable Sideslip Angle Estimation of Four-Wheel Independent Drive Electric Vehicle by Information Iteration and Fusion. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-14	1.1	3
25	Thermoelastic damping in the size-dependent micro/nanobeam resonator with nonlocal dual-phase-lag heat conduction. <i>Thin-Walled Structures</i> , 2021 , 169, 108437	4.7	3
24	A strong robust observer of distributed drive electric vehicle states based on strong tracking-iterative central difference Kalman filter algorithm. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401877968	1.2	2
23	Optimization of Energy Management Strategy for the EPS with Hybrid Power Supply Based on PSO Algorithm. <i>Energies</i> , 2020 , 13, 428	3.1	2
22	Electronic differential control of 2WD electric vehicle considering steering stability 2017 ,		2
21	Multi-Mode Switching Control of the EPS With Hybrid Power Supply. <i>IEEE Access</i> , 2020 , 8, 4329-4337	3.5	2
20	Determinants of Vehicle Ownership in the Greater Tamale Area, Ghana. <i>Transportation Research Record</i> , 2020 , 2674, 68-78	1.7	2
19	Modeling vehicle ownership with machine learning techniques in the Greater Tamale Area, Ghana. <i>PLoS ONE</i> , 2021 , 16, e0246044	3.7	2
18	Design and Analysis of an Autobraking System Controller for Autonomous Vehicles Under the Influence of Perturbation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 1923-1931	6.8	2
17	Online State-of-Charge Estimation Based on the Gas-Liquid Dynamics Model for Li(NiMnCo)O ₂ Battery. <i>Energies</i> , 2021 , 14, 324	3.1	2
16	Transfer learning-based highway crash risk evaluation considering manifold characteristics of traffic flow.. <i>Accident Analysis and Prevention</i> , 2022 , 168, 106598	6.1	2
15	Sideslip Angle Fusion Estimation Method of an Autonomous Electric Vehicle Based on Robust Cubature Kalman Filter with Redundant Measurement Information. <i>World Electric Vehicle Journal</i> , 2019 , 10, 34	2.5	1
14	Study on stiffness characteristics of a new variable-thickness rolled blank with manufacturing constraint. <i>Australian Journal of Mechanical Engineering</i> , 2020 , 1-13	1	1

13	A modified Johnson-Cook model of 6061-T6 Aluminium profile. <i>Australian Journal of Mechanical Engineering</i> , 2020 , 1-11	1	1
12	Running States Estimation of Autonomous Four-Wheel Independent Drive Electric Vehicle by Virtual Longitudinal Force Sensors. <i>Mathematical Problems in Engineering</i> , 2019 , 2019, 1-17	1.1	1
11	H_∞ control of vehicle active suspension and electric power steering system 2010 ,		1
10	Nonlocal dual-phase-lag thermoelastic dissipation of size-dependent micro/nano-ring resonators. <i>International Journal of Mechanical Sciences</i> , 2022 , 219, 107080	5.5	1
9	Adaptive nonsingular terminal sliding mode control strategy for PMSC 2016 ,		1
8	Field-Oriented Control of Energy-Regenerative Electromagnetic Slip Coupling. <i>IEEE Access</i> , 2018 , 6, 52169-52178	3.5	1
7	Design and Steady-State Performance of a Novel Winding Type Permanent Magnet Coupling with Slip Power Recovery Function. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-8	1.1	0
6	Research on State of Health for the Series Battery Module Based on the Weibull Distribution. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 020523	3.9	0
5	Research on the SOH Prediction Based on the Feature Points of Incremental Capacity Curve. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 110554	3.9	0
4	Trajectory planning and tracking control of unmanned ground vehicle leading by motion virtual leader on expressway. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 187-199	2.4	0
3	Nano-grinding derived high-performance $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Co}_{0.13}\text{Mn}_{0.54}\text{O}_2$ cathode material: from kilogram-scale synthesis to its pouch cell. <i>Ionics</i> , 2021 , 27, 491-506	2.7	0
2	Implementation of the Human-Like Lane Changing Driver Model Based on Bi-LSTM. <i>Discrete Dynamics in Nature and Society</i> , 2022 , 2022, 1-17	1.1	0
1	Expected yaw rate-based trajectory tracking control with vision delay for intelligent vehicle. <i>Science Progress</i> , 2020 , 103, 36850420934274	1.1	