

# Haobin Jiang

## List of Publications by Year in Descending Order

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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	Research on State of Health for the Series Battery Module Based on the Weibull Distribution. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 020523	3.9	0
83	Nonlocal dual-phase-lag thermoelastic dissipation of size-dependent micro/nano-ring resonators. <i>International Journal of Mechanical Sciences</i> , <b>2022</b> , 219, 107080	5.5	1
82	Thickness-based subdomian hybrid cellular automata algorithm for lightweight design of BIW under side collision. <i>Applied Mathematical Modelling</i> , <b>2022</b> , 102, 170-193	4.5	3
81	Robust state-of-charge estimation for lithium-ion batteries based on an improved gas-liquid dynamics model. <i>Energy</i> , <b>2022</b> , 238, 122008	7.9	5
80	Transfer learning-based highway crash risk evaluation considering manifold characteristics of traffic flow.. <i>Accident Analysis and Prevention</i> , <b>2022</b> , 168, 106598	6.1	2
79	Implementation of the Human-Like Lane Changing Driver Model Based on Bi-LSTM. <i>Discrete Dynamics in Nature and Society</i> , <b>2022</b> , 2022, 1-17	1.1	0
78	Research on the SOH Prediction Based on the Feature Points of Incremental Capacity Curve. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 110554	3.9	0
77	Trajectory planning and tracking control of unmanned ground vehicle leading by motion virtual leader on expressway. <i>IET Intelligent Transport Systems</i> , <b>2021</b> , 15, 187-199	2.4	0
76	Parking Space Recognition Method Based on Parking Space Feature Construction in the Scene of Autonomous Valet Parking. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2759	2.6	3
75	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> , <b>2021</b> , 860, 158451	5.7	12
74	Analyzing the Coordination Relationship between Urban Built Environment and Traffic Level. <i>Journal of Advanced Transportation</i> , <b>2021</b> , 2021, 1-11	1.9	4
73	SAES: A self-checking authentication scheme with higher efficiency and security for VANET. <i>Peer-to-Peer Networking and Applications</i> , <b>2021</b> , 14, 528-540	3.1	5
72	Nano-grinding derived high-performance Li <sub>1.2</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> Mn <sub>0.54</sub> O <sub>2</sub> cathode material: from kilogram-scale synthesis to its pouch cell. <i>Ionics</i> , <b>2021</b> , 27, 491-506	2.7	0
71	Modeling vehicle ownership with machine learning techniques in the Greater Tamale Area, Ghana. <i>PLoS ONE</i> , <b>2021</b> , 16, e0246044	3.7	2
70	Thermoelastic damping in the size-dependent micro/nanobeam resonator with nonlocal dual-phase-lag heat conduction. <i>Thin-Walled Structures</i> , <b>2021</b> , 169, 108437	4.7	3
69	Online State-of-Charge Estimation Based on the Gas-Liquid Dynamics Model for Li(NiMnCo)O <sub>2</sub> Battery. <i>Energies</i> , <b>2021</b> , 14, 324	3.1	2
68	Automated Parking Space Allocation during Transition with both Human-Operated and Autonomous Vehicles. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 855	2.6	5

67	Parking Space and Obstacle Detection Based on a Vision Sensor and Checkerboard Grid Laser. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2582	2.6	4
66	Study on stiffness characteristics of a new variable-thickness rolled blank with manufacturing constraint. <i>Australian Journal of Mechanical Engineering</i> , <b>2020</b> , 1-13	1	1
65	A New Single Point Preview-Based Human-Like Driver Model on Urban Curved Roads. <i>IEEE Access</i> , <b>2020</b> , 8, 107452-107464	3.5	5
64	Expected yaw rate-based trajectory tracking control with vision delay for intelligent vehicle. <i>Science Progress</i> , <b>2020</b> , 103, 36850420934274	1.1	
63	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> , <b>2020</b> , 565, 503-512	9.3	17
62	A modified Johnson-Cook model of 6061-T6 Aluminium profile. <i>Australian Journal of Mechanical Engineering</i> , <b>2020</b> , 1-11	1	1
61	Optimization of Energy Management Strategy for the EPS with Hybrid Power Supply Based on PSO Algorithm. <i>Energies</i> , <b>2020</b> , 13, 428	3.1	2
60	Multi-Mode Switching Control of the EPS With Hybrid Power Supply. <i>IEEE Access</i> , <b>2020</b> , 8, 4329-4337	3.5	2
59	Crashworthiness optimization of VRB thin-walled structures under manufacturing constraints by the eHCA-VRB algorithm. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 80, 126-150	4.5	11
58	Determinants of Vehicle Ownership in the Greater Tamale Area, Ghana. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 68-78	1.7	2
57	Probability Based Survey of Braking System: A Pareto-Optimal Approach. <i>IEEE Access</i> , <b>2020</b> , 8, 128385-128406	3.5	10
56	Automatic Parking Path Planning and Tracking Control Research for Intelligent Vehicles. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 9100	2.6	8
55	Severity prediction of motorcycle crashes with machine learning methods. <i>International Journal of Crashworthiness</i> , <b>2020</b> , 25, 485-492	1	25
54	Human-Like Trajectory Planning on Curved Road: Learning From Human Drivers. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 3388-3397	6.1	8
53	A new gas-liquid dynamics model towards robust state of charge estimation of lithium-ion batteries. <i>Journal of Energy Storage</i> , <b>2020</b> , 29, 101343	7.8	4
52	Stability Research of Distributed Drive Electric Vehicle by Adaptive Direct Yaw Moment Control. <i>IEEE Access</i> , <b>2019</b> , 7, 106225-106237	3.5	16
51	Passive fault-tolerant path following control of autonomous distributed drive electric vehicle considering steering system fault. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 123, 298-315	7.8	32
50	ANFTS Mode Control for an Electronically Controlled Hydraulic Power Steering System on a Permanent Magnet Slip Clutch. <i>Energies</i> , <b>2019</b> , 12, 1739	3.1	4

49	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> , <b>2019</b> , 10, 34	2.5	1
48	Learning Human-Like Trajectory Planning on Urban Two-Lane Curved Roads From Experienced Drivers. <i>IEEE Access</i> , <b>2019</b> , 7, 65828-65838	3.5	12
47	Linear model predictive control of automatic parking path tracking with soft constraints. <i>International Journal of Advanced Robotic Systems</i> , <b>2019</b> , 16, 172988141985220	1.4	15
46	A multinomial logit analysis of factors associated with severity of motorcycle crashes in Ghana. <i>Traffic Injury Prevention</i> , <b>2019</b> , 20, 521-527	1.8	19
45	Passive actuator-fault-tolerant path following control of autonomous ground electric vehicle with in-wheel motors. <i>Advances in Engineering Software</i> , <b>2019</b> , 134, 22-30	3.6	19
44	Research on Control of Intelligent Vehicle Human-Simulated Steering System Based on HSIC. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 905	2.6	4
43	Study on Low-Speed Steering Resistance Torque of Vehicles Considering Friction between Tire and Pavement. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1015	2.6	5
42	Coordinated control for path following of two-wheel independently actuated autonomous ground vehicle. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 628-635	2.4	12
41	Model predictive driver model considering the steering characteristics of the skilled drivers. <i>Advances in Mechanical Engineering</i> , <b>2019</b> , 11, 168781401982933	1.2	4
40	A comparative study on machine learning based algorithms for prediction of motorcycle crash severity. <i>PLoS ONE</i> , <b>2019</b> , 14, e0214966	3.7	34
39	Implementation and Development of a Trajectory Tracking Control System for Intelligent Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2019</b> , 94, 251-264	2.9	24
38	Implementation of Human-Like Driver Model Based on Recurrent Neural Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 98094-98106	3.5	6
37	Theoretical prediction and crashworthiness optimization of top-hat thin-walled structures under transverse loading. <i>Thin-Walled Structures</i> , <b>2019</b> , 144, 106261	4.7	16
36	Running States Estimation of Autonomous Four-Wheel Independent Drive Electric Vehicle by Virtual Longitudinal Force Sensors. <i>Mathematical Problems in Engineering</i> , <b>2019</b> , 2019, 1-17	1.1	1
35	Research on Switching Interconnection Modes and Game Control of Interconnected Air Suspension. <i>Energies</i> , <b>2019</b> , 12, 3218	3.1	7
34	Design of Vehicle Running States-Fused Estimation Strategy Using Kalman Filters and Tire Force Compensation Method. <i>IEEE Access</i> , <b>2019</b> , 7, 87273-87287	3.5	9
33	Anti-Congestion Route Planning Scheme Based on Dijkstra Algorithm for Automatic Valet Parking System. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5016	2.6	8
32	Multi-objective reliability-based design optimization for the VRB-VCS FLB under front-impact collision. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 59, 1835-1851	3.6	29

31	Parametric modeling and multiobjective crashworthiness design optimization of a new front longitudinal beam. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 59, 1789-1812	3.6	31
30	Traffic State Spatial-Temporal Characteristic Analysis and Short-Term Forecasting Based on Manifold Similarity. <i>IEEE Access</i> , <b>2018</b> , 6, 9690-9702	3.5	13
29	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> , <b>2018</b> , 10, 168781401877968	1.2	2
28	Study on Path Planning Method for Imitating the Lane-Changing Operation of Excellent Drivers. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 814	2.6	8
27	Estimation of Longitudinal Force and Sideslip Angle for Intelligent Four-Wheel Independent Drive Electric Vehicles by Observer Iteration and Information Fusion. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
26	Design and Analysis of an Autobraking System Controller for Autonomous Vehicles Under the Influence of Perturbation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 1923-1931	6.8	2
25	Trajectory planning and optimisation method for intelligent vehicle lane changing emergently. <i>IET Intelligent Transport Systems</i> , <b>2018</b> , 12, 1336-1344	2.4	10
24	Field-Oriented Control of Energy-Regenerative Electromagnetic Slip Coupling. <i>IEEE Access</i> , <b>2018</b> , 6, 52169-52178	3.5	13
23	Short-Time Traffic State Forecasting Using Adaptive Neighborhood Selection Based on Expansion Strategy. <i>IEEE Access</i> , <b>2018</b> , 6, 48210-48223	3.5	7
22	Multi-Objective Coordination Control Strategy of Distributed Drive Electric Vehicle by Orientated Tire Force Distribution Method. <i>IEEE Access</i> , <b>2018</b> , 6, 69559-69574	3.5	19
21	Reliable Sideslip Angle Estimation of Four-Wheel Independent Drive Electric Vehicle by Information Iteration and Fusion. <i>Mathematical Problems in Engineering</i> , <b>2018</b> , 2018, 1-14	1.1	3
20	Research on the heat dissipation performance of lithium-ion cell with different operating conditions. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 1642-1654	4.5	26
19	Research on Automatic Parking Systems Based on Parking Scene Recognition. <i>IEEE Access</i> , <b>2017</b> , 5, 21901-21913	3.5	13
18	Design and Steady-State Performance of a Novel Winding Type Permanent Magnet Coupling with Slip Power Recovery Function. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-8	1.1	0
17	Pedestrian detection algorithm in traffic scene based on weakly supervised hierarchical deep model. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141769231	1.4	4
16	A Comparative Study of Clustering Analysis Method for Driver's Steering Intention Classification and Identification under Different Typical Conditions. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1014	2.6	10
15	Path Tracking Control of Automatic Parking Cloud Model considering the Influence of Time Delay. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-14	1.1	10
14	Electronic differential control of 2WD electric vehicle considering steering stability <b>2017</b> ,		2

13	An electronically controlled hydraulic power steering system for heavy vehicles. <i>Advances in Mechanical Engineering</i> , <b>2016</b> , 8, 168781401667956	1.2	9
12	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> , <b>2016</b> , 8, 168781401665463	1.2	6
11	Direct yaw-moment control of in-wheel electric vehicle by sliding mode technique <b>2016</b> ,		5
10	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> , <b>2016</b> , 63, 3479-3488	8.9	167
9	Night-Time Vehicle Detection Algorithm Based on Visual Saliency and Deep Learning. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-7	2	16
8	Adaptive nonsingular terminal sliding mode control strategy for PMSC <b>2016</b> ,		1
7	Crystal structure and electrochemical performance of La <sub>0.75</sub> Ce <sub>0.25</sub> Ni <sub>3.46</sub> -Al <sub>0.17</sub> Mn <sub>0.04</sub> Co <sub>1.33</sub> alloy for high-power-type 29 Ah Ni-MH battery. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 633-638	3.7	3
6	Sulfur/microporous carbon composites for Li-S battery. <i>Ionics</i> , <b>2015</b> , 21, 2161-2170	2.7	14
5	Trajectory-based anomalous behaviour detection for intelligent traffic surveillance. <i>IET Intelligent Transport Systems</i> , <b>2015</b> , 9, 810-816	2.4	49
4	VSe <sub>2</sub> /graphene nanocomposites as anode materials for lithium-ion batteries. <i>Materials Letters</i> , <b>2015</b> , 141, 35-38	3.3	41
3	In situ synthesis of hierarchical mesoporous Fe <sub>3</sub> O <sub>4</sub> @C nanowires derived from coordination polymers for high-performance lithium-ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 51960-51965	3.7	17
2	A High-Performance Control Method of ConstantV/f-Controlled Induction Motor Drives for Electric Vehicles. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-10	1.1	3
1	Control of vehicle active suspension and electric power steering system <b>2010</b> ,		1