

Nong Zhang

List of Publications by Year in descending order

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328
papers

8,860
citations

38742

50
h-index

76900

74
g-index

330
all docs

330
docs citations

330
times ranked

5002
citing authors

#	ARTICLE	IF	CITATIONS
1	A comfort performance improved anti-pitch hydraulically interconnected suspension system with switchable dual accumulators. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 2022-2035.	1.9	2
2	An Electromagnetic Variable Inertance and Damping Seat Suspension With Controllable Circuits. IEEE Transactions on Industrial Electronics, 2022, 69, 2811-2821.	7.9	18
3	A Power Consumption and Total Cost of Ownership Analysis of Extended Range System for a Logistics Van. IEEE Transactions on Transportation Electrification, 2022, 8, 72-81.	7.8	3
4	Study on a novel configuration switchable hydraulically interconnected suspension system under nonlinear model predictive control. Vehicle System Dynamics, 2022, 60, 3440-3461.	3.7	4
5	Optimal sizing and energy management of an electric vehicle powertrain equipped with two motors and multi-gear ratios. Mechanism and Machine Theory, 2022, 167, 104513.	4.5	30
6	Fault-tolerant prescribed performance control of active suspension based on approximation-free method. Vehicle System Dynamics, 2022, 60, 1642-1667.	3.7	6
7	The dynamic and economic performance study of a new Simpson planetary gearset based dual motor powertrain for electric vehicles. Mechanism and Machine Theory, 2022, 167, 104579.	4.5	10
8	Dynamics modeling and shift control of a novel spring-based synchronizer for electric vehicles. Mechanism and Machine Theory, 2022, 168, 104586.	4.5	10
9	Decoupling vibration control of a semi-active electrically interconnected suspension based on mechanical hardware-in-the-loop. Mechanical Systems and Signal Processing, 2022, 166, 108455.	8.0	16
10	Mode switching analysis and control for a parallel hydraulic hybrid vehicle. Vehicle System Dynamics, 2021, 59, 928-948.	3.7	16
11	A comprehensive tune of coupled roll and lateral dynamics and parameter sensitivity study for a vehicle fitted with hydraulically interconnected suspension system. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 143-161.	1.9	29
12	Shift characteristics of a bilateral Harpoon-shift synchronizer for electric vehicles equipped with clutchless AMTs. Mechanical Systems and Signal Processing, 2021, 148, 107166.	8.0	16
13	Dynamic analysis of unilateral harpoon-shift synchronizer for electric vehicles. Mechanism and Machine Theory, 2021, 157, 104173.	4.5	3
14	Corresponding drivability control and energy control strategy in uninterrupted multi-speed mining trucks. Journal of the Franklin Institute, 2021, 358, 1214-1239.	3.4	5
15	Real-Time Identification of Vehicle Motion-Modes. , 2021, , 167-173.		0
16	A novel robust event-triggered fault tolerant automatic steering control approach of autonomous land vehicles under in-vehicle network delay. International Journal of Robust and Nonlinear Control, 2021, 31, 2436-2464.	3.7	36
17	Ecological cooperative adaptive cruise control of over-actuated electric vehicles with in-wheel motor in traffic flow. IET Intelligent Transport Systems, 2021, 15, 765-780.	3.0	3
18	Comparison on Energy Economy and Vibration Characteristics of Electric and Hydraulic in-Wheel Drive Vehicles. Energies, 2021, 14, 2290.	3.1	4

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19	Driving mode shift control for planetary gear based dual motor powertrain in electric vehicles. Mechanism and Machine Theory, 2021, 158, 104217.	4.5	16
20	Adaptive real-time optimal control for energy management strategy of extended range electric vehicle. Energy Conversion and Management, 2021, 234, 113874.	9.2	30
21	Friction observer-based hybrid controller for a seat suspension with semi-active electromagnetic damper. Mechatronics, 2021, 76, 102568.	3.3	7
22	A semi-active variable equivalent stiffness and inertance device implemented by an electrical network. Mechanical Systems and Signal Processing, 2021, 156, 107676.	8.0	21
23	Optimization and coordinated control of gear shift and mode transition for a dual-motor electric vehicle. Mechanical Systems and Signal Processing, 2021, 158, 107731.	8.0	34
24	Power on gear shift control strategy design for a parallel hydraulic hybrid vehicle. Mechanical Systems and Signal Processing, 2021, 159, 107798.	8.0	13
25	Fuzzy sampled-data H_{∞} sliding-mode control for active hysteretic suspension of commercial vehicles with unknown actuator-disturbance. Control Engineering Practice, 2021, 117, 104940.	5.5	11
26	Efficiency Analysis of a Dual-Motor Electric Vehicle Powertrain. , 2021, , 169-176.		0
27	Modelling and Vibration Characteristics Analysis of a Parallel Hydraulic Hybrid Vehicle. , 2021, , 137-142.		0
28	A Study of a New Bidirectional Pressure-Regulating Valve for Hydraulically Interconnected Suspension Systems. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.6	3
29	A New SSUKF Observer for Sliding Mode Force Tracking H_{∞} Control of Electrohydraulic Active Suspension. Asian Journal of Control, 2020, 22, 761-778.	3.0	13
30	A novel manoeuvre stability controller based on vehicle state prediction and intellectual braking torque distribution. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 136-151.	1.9	6
31	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. IEEE Transactions on Industrial Electronics, 2020, 67, 6773-6784.	7.9	29
32	Improvement of both handling stability and ride comfort of a vehicle via coupled hydraulically interconnected suspension and electronic controlled air spring. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 552-571.	1.9	56
33	Using a low-cost bluetooth torque sensor for vehicle jerk and transient torque measurement. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 423-437.	1.9	10
34	A nonlinear magnetorheological elastomer model based on fractional viscoelasticity, magnetic dipole interactions, and adaptive smooth Coulomb friction. Mechanical Systems and Signal Processing, 2020, 141, 106438.	8.0	43
35	Parametric design and regenerative braking control of a parallel hydraulic hybrid vehicle. Mechanism and Machine Theory, 2020, 146, 103714.	4.5	30
36	Regenerative active suspension system with residual energy for in-wheel motor driven electric vehicle. Applied Energy, 2020, 260, 114180.	10.1	59

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37	Optimal coordinating gearshift control of a two-speed transmission for battery electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106521.	8.0	15
38	An LQG Controller Based on Real System Identification for an Active Hydraulically Interconnected Suspension. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-10.	1.1	6
39	Sensitivity stratification concept and hierarchical multi-objective optimisation for an ambulance with hydraulically interconnected suspension and stretcher-human body model. <i>Vehicle System Dynamics</i> , 2020, , 1-29.	3.7	8
40	Rear-Steering Based Decentralized Control of Four-Wheel Steering Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10899-10913.	6.3	15
41	Real-time identification of vehicle body motion-modes based on motion-mode energy method. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106843.	8.0	6
42	Intelligent estimation for electric vehicle mass with unknown uncertainties based on particle filter. <i>IET Intelligent Transport Systems</i> , 2020, 14, 463-467.	3.0	7
43	Model and gear shifting control of a novel two-speed transmission for battery electric vehicles. <i>Mechanism and Machine Theory</i> , 2020, 152, 103902.	4.5	30
44	Shifting strategy and energy management of a two-motor drive powertrain for extended-range electric buses. <i>Mechanism and Machine Theory</i> , 2020, 153, 103966.	4.5	21
45	Efficiency improvement of a novel dual motor powertrain for plug-in hybrid electric buses. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020, 234, 1869-1882.	1.9	5
46	Modelling and Vibration Analysis of a Parallel Hydraulic Hybrid Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10710-10723.	6.3	6
47	Frequency-Based Modeling of a Vehicle Fitted With Roll-Plane Hydraulically Interconnected Suspension for Ride Comfort and Experimental Validation. <i>IEEE Access</i> , 2020, 8, 1091-1104.	4.2	25
48	Robust adaptive backstepping sliding mode control for motion mode decoupling of two-axle vehicles with active kinetic dynamic suspension systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 3110-3133.	3.7	15
49	Parameters optimization of two-speed powertrain of electric vehicle based on genetic algorithm. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402090165.	1.6	24
50	Investigation of integrated uninterrupted dual input transmission and hybrid energy storage system for electric vehicles. <i>Applied Energy</i> , 2020, 262, 114446.	10.1	20
51	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 859-871.	5.8	30
52	A robust online energy management strategy for fuel cell/battery hybrid electric vehicles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14093-14107.	7.1	51
53	A condensed dynamic model of a heavy-duty truck for optimization of the powertrain mounting system considering the chassis frame flexibility. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020, 234, 2602-2617.	1.9	23
54	Accelerated adaptive super twisting sliding mode observer-based drive shaft torque estimation for electric vehicle with automated manual transmission. <i>IET Intelligent Transport Systems</i> , 2019, 13, 160-167.	3.0	5

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55	A novel nonlinear road profile classification approach for controllable suspension system: Simulation and experimental validation. <i>Mechanical Systems and Signal Processing</i> , 2019, 125, 79-98.	8.0	45
56	Torque response characteristics of a controllable electromagnetic damper for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106238.	8.0	12
57	Clutch-to-Clutch Gearshift Control for Multi-Speed Electric Vehicles during Regenerative Braking Events. , 2019, , .		1
58	An electromagnetic variable inertance device for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106259.	8.0	49
59	A Novel Electrical Variable Stiffness Device for Vehicle Seat Suspension Control With Mismatched Disturbance Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 2019-2030.	5.8	23
60	Design of the frequency tuning scheme for a semi-active vibration absorber. <i>Mechanism and Machine Theory</i> , 2019, 140, 641-653.	4.5	31
61	Vibration Performance Analysis of a Mining Vehicle with Bounce and Pitch Tuned Hydraulically Interconnected Suspension. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2019, 32, .	3.7	25
62	Optimal control of a novel uninterrupted multi-speed transmission for hybrid electric mining trucks. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 3235-3245.	1.9	5
63	Power-split strategy of a novel dual-input series-parallel hybrid electric vehicle. , 2019, , .		0
64	Improvement of ride quality for patient lying in ambulance with a new hydro-pneumatic suspension. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401983780.	1.6	34
65	A rotary variable admittance device and its application in vehicle seat suspension vibration control. <i>Journal of the Franklin Institute</i> , 2019, 356, 7873-7895.	3.4	28
66	Multi-objective optimization strategy of adaptive cruise control considering regenerative energy. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 3630-3645.	1.9	12
67	Energy management and shifting stability control for a novel dual input clutchless transmission system. <i>Mechanism and Machine Theory</i> , 2019, 135, 298-321.	4.5	16
68	Dynamic computation for rigid–flexible multibody systems with hybrid uncertainty of randomness and interval. <i>Multibody System Dynamics</i> , 2019, 47, 43-64.	2.7	14
69	The prediction of braking noise in regenerative braking system using closed-loop coupling disk brake model. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 3721-3735.	1.9	1
70	Handling performance of tractor-semitrailers equipped with hydraulically interconnected suspension. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019, 233, 3098-3111.	1.9	7
71	Implementation of velocity optimisation strategy based on preview road information to trade off transport time and fuel consumption for hybrid mining trucks. <i>IET Intelligent Transport Systems</i> , 2019, 13, 194-200.	3.0	8
72	A variable inertance and variable damping vibration control system with electric circuit. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
73	Takagi-Sugeno Fuzzy Control for the Semi-active Seat Suspension with an Electromagnetic Damper. , 2019, , .		0
74	A novel coaxial multi-mode hybrid transmission system for mining trucks. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 2492-2501.	1.9	1
75	Gearshift and brake distribution control for regenerative braking in electric vehicles with dual clutch transmission. Mechanism and Machine Theory, 2019, 133, 1-22.	4.5	42
76	Dynamic analysis and control for an electric vehicle with harpoon-shift synchronizer. Mechanism and Machine Theory, 2019, 133, 750-766.	4.5	15
77	Accelerated Adaptive Second Order Super-Twisting Sliding Mode Observer. IEEE Access, 2019, 7, 25232-25238.	4.2	9
78	Robust Deadbeat Predictive Power Control With a Discrete-Time Disturbance Observer for PWM Rectifiers Under Unbalanced Grid Conditions. IEEE Transactions on Power Electronics, 2019, 34, 287-300.	7.9	70
79	An Optimized Real-Time Energy Management Strategy for the Power-Split Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2019, 27, 1194-1202.	5.2	43
80	Optimal preview position control for shifting actuators of automated manual transmission. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 440-452.	1.9	5
81	Development of continuously variable transmission and multi-speed dual-clutch transmission for pure electric vehicle. Advances in Mechanical Engineering, 2018, 10, 168781401875822.	1.6	42
82	A robust energy management strategy for EVs with dual input power-split transmission. Mechanical Systems and Signal Processing, 2018, 111, 442-455.	8.0	21
83	Sliding-Mode Observer Based Voltage-Sensorless Model Predictive Power Control of PWM Rectifier Under Unbalanced Grid Conditions. IEEE Transactions on Industrial Electronics, 2018, 65, 5550-5560.	7.9	101
84	Shifting and power sharing control of a novel dual input clutchless transmission for electric vehicles. Mechanical Systems and Signal Processing, 2018, 104, 725-743.	8.0	56
85	Vibration control of an energy regenerative seat suspension with variable external resistance. Mechanical Systems and Signal Processing, 2018, 106, 94-113.	8.0	62
86	Deadbeat control based on a multipurpose disturbance observer for permanent magnet synchronous motors. IET Electric Power Applications, 2018, 12, 708-716.	1.8	53
87	Multi-objective component sizing for a battery-supercapacitor power supply considering the use of a power converter. Energy, 2018, 142, 436-446.	8.8	15
88	Power-on shifting in dual input clutchless power-shifting transmission for electric vehicles. Mechanism and Machine Theory, 2018, 121, 487-501.	4.5	50
89	Comparative fuel economy, cost and emissions analysis of a novel mild hybrid and conventional vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1846-1862.	1.9	11
90	Dynamic analysis of a vehicle with leaf spring based on the hysteresis model. International Journal of Vehicle Performance, 2018, 4, 282.	0.4	2

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91	Theoretical and experimental investigation of the thermal behaviour of a two-speed dual clutch transmission. <i>International Journal of Vehicle Performance</i> , 2018, 4, 237.	0.4	0
92	Comparison of Power Consumption Efficiency of CVT and Multi-Speed Transmissions for Electric Vehicle. <i>International Journal of Automotive Engineering</i> , 2018, 9, 268-275.	0.5	14
93	Robust Digital Current Control Based on Adaptive Disturbance Estimation for PMSM Drives with Low Pulse Ratio. , 2018, , .		4
94	Lateral Dynamics and Suspension Tuning for a Two-Axle Bus Fitted with Roll-Resistant Hydraulically Interconnected Suspension. , 2018, , .		1
95	Dynamic Characteristics Analysis of Vehicle Incorporating Hydraulically Interconnected Suspension System with Dual Accumulators. <i>Shock and Vibration</i> , 2018, 2018, 1-15.	0.6	3
96	Hardware-in-the-Loop Simulation for the Design and Testing of Motor in Advanced Powertrain Applications. , 2018, , .		4
97	Modelling and control of a novel two-speed transmission for electric vehicles. <i>Mechanism and Machine Theory</i> , 2018, 127, 13-32.	4.5	59
98	Dynamic Characteristics Analysis of an Ambulance with Hydraulically Interconnected Suspension System. , 2018, , .		3
99	Efficiency comparison of electric vehicles powertrains with dual motor and single motor input. <i>Mechanism and Machine Theory</i> , 2018, 128, 569-585.	4.5	89
100	Investigation of a Novel Coaxial Power-Split Hybrid Powertrain for Mining Trucks. <i>Energies</i> , 2018, 11, 172.	3.1	15
101	A novel shift control concept for multi-speed electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2018, 112, 171-193.	8.0	24
102	A new sequential sampling method for constructing the high-order polynomial surrogate models. <i>Engineering Computations</i> , 2018, 35, 529-564.	1.4	14
103	Efficiency improvement of vehicle active suspension based on multi-objective integrated optimization. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 539-554.	2.6	17
104	Level-set topology optimization for multimaterial and multifunctional mechanical metamaterials. <i>Engineering Optimization</i> , 2017, 49, 22-42.	2.6	60
105	A new hybrid uncertainty optimization method for structures using orthogonal series expansion. <i>Applied Mathematical Modelling</i> , 2017, 45, 474-490.	4.2	30
106	An Adaptive Power-Split Strategy for Batteryâ€“Supercapacitor Powertrainâ€”Design, Simulation, and Experiment. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 9364-9375.	7.9	86
107	Comparison of the road-holding abilities of a roll-plane hydraulically interconnected suspension system and an anti-roll bar system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017, 231, 1540-1557.	1.9	11
108	Comprehensive design and optimization of an electric vehicle powertrain equipped with a two-speed dual-clutch transmission. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401668314.	1.6	23

#	ARTICLE	IF	CITATIONS
109	Dynamic modelling and simulation of a manual transmission based mild hybrid vehicle. Mechanism and Machine Theory, 2017, 112, 218-239.	4.5	40
110	An innovative control strategy for a hybrid energy storage system (HESS)., 2017, , .		4
111	Comparison of effect on motor among 2-, 3- and 4-speed transmission in electric vehicle. , 2017, , .		3
112	Dynamics and Control of Clutchless Automated Manual Transmissions for Electric Vehicles. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	37
113	Hybrid Synchronized PWM Schemes for Closed-Loop Current Control of High-Power Motor Drives. IEEE Transactions on Industrial Electronics, 2017, 64, 6920-6929.	7.9	50
114	Level-set topology optimization for mechanical metamaterials under hybrid uncertainties. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 414-441.	6.6	91
115	An investigation of hybrid energy storage system in multi-speed electric vehicle. Energy, 2017, 140, 291-306.	8.8	70
116	A system analysis and modeling of a HEV based on ultracapacitor battery. , 2017, , .		6
117	A robust deadbeat predictive power control with sliding mode disturbance observer for PWM rectifiers. , 2017, , .		4
118	Target torque estimation for gearshift in dual clutch transmission with uncertain parameters. Applied Mathematical Modelling, 2017, 51, 1-20.	4.2	18
119	Speed sensorless model predictive current control with ability to start a free running induction motor. IET Electric Power Applications, 2017, 11, 893-901.	1.8	29
120	Powertrain dynamics and control of a two speed dual clutch transmission for electric vehicles. Mechanical Systems and Signal Processing, 2017, 85, 1-15.	8.0	111
121	Uncertain dynamic analysis for rigid-flexible mechanisms with random geometry and material properties. Mechanical Systems and Signal Processing, 2017, 85, 487-511.	8.0	35
122	A Method to Start Rotating Induction Motor Based on Speed Sensorless Model-Predictive Control. IEEE Transactions on Energy Conversion, 2017, 32, 359-368.	5.2	37
123	Lateral stability study of a vehicle fitted with hydraulically interconnected suspension in slalom maneuver. , 2017, , .		0
124	Enhanced Regenerative Braking Strategies for Electric Vehicles: Dynamic Performance and Potential Analysis. Energies, 2017, 10, 1875.	3.1	57
125	Investigation of the Influence of an Hydraulically Interconnected Suspension (HIS) on Steady-State Cornering. , 2017, , .		1
126	Off-Line Optimization Based Active Control of Torsional Oscillation for Electric Vehicle Drivetrain. Applied Sciences (Switzerland), 2017, 7, 1261.	2.5	12

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127	A Comparative Fuel Analysis of a Novel HEV with Conventional Vehicle. , 2017, , .		4
128	A low-cost and novel approach in gearshift control for a mild-hybrid powertrain. , 2017, , .		3
129	Steady-state response of fluid-structure interactions in hydraulic piping system of passive interconnected suspensions. International Journal of Vehicle Design, 2016, 72, 305.	0.3	1
130	Modal and Dynamic Analysis of a Vehicle with Kinetic Dynamic Suspension System. Shock and Vibration, 2016, 2016, 1-18.	0.6	2
131	A Piecewise Hysteresis Model for a Damper of HIS System. Shock and Vibration, 2016, 2016, 1-11.	0.6	2
132	Vibration Modes and the Dynamic Behaviour of a Hydraulic Plunger Pump. Shock and Vibration, 2016, 2016, 1-7.	0.6	8
133	Reducing the Peak-to-average Power Ratio for Electric Vehicles using Hybrid Energy Storage Systems (HESS). World Electric Vehicle Journal, 2016, 8, 196-200.	3.0	2
134	A Novel Observer Design for Simultaneous Estimation of Vehicle Steering Angle and Sideslip Angle. IEEE Transactions on Industrial Electronics, 2016, 63, 4357-4366.	7.9	105
135	Interval uncertain analysis of active hydraulically interconnected suspension system. Advances in Mechanical Engineering, 2016, 8, 168781401664633.	1.6	8
136	Dynamic computation of flexible multibody system with uncertain material properties. Nonlinear Dynamics, 2016, 85, 1231-1254.	5.2	17
137	Boundary condition handling approaches for the model reduction of a vehicle frame. Mechanical Systems and Signal Processing, 2016, 75, 123-137.	8.0	6
138	Topological design for mechanical metamaterials using a multiphase level set method. Structural and Multidisciplinary Optimization, 2016, 54, 937-952.	3.5	21
139	Eliminating the torque hole: Using a mild hybrid EV architecture to deliver better driveability. , 2016, , .		7
140	The dynamic performance and economic benefit of a blended braking system in a multi-speed battery electric vehicle. Applied Energy, 2016, 183, 1240-1258.	10.1	61
141	Dynamics analysis and design methodology of roll-resistant hydraulically interconnected suspensions for tri-axle straight trucks. Journal of the Franklin Institute, 2016, 353, 4620-4651.	3.4	31
142	A numerical study of the impact of wet clutch drag torque on the performance of two-speed electric vehicles. International Journal of Vehicle Performance, 2016, 2, 178.	0.4	0
143	Two high performance position estimation schemes based on sliding-mode observer for sensorless SPMSM drives. , 2016, , .		4
144	Integrated design of cellular composites using a level-set topology optimization method. Computer Methods in Applied Mechanics and Engineering, 2016, 309, 453-475.	6.6	72

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145	Physical parameter identification method based on modal analysis for two-axis on-road vehicles: Theory and simulation. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 756-764.	3.7	12
146	Estimation method of state-of-charge for lithium-ion battery used in hybrid electric vehicles based on variable structure extended kalman filter. Chinese Journal of Mechanical Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 of 50 697		
147	Topological shape optimization of multifunctional tissue engineering scaffolds with level set method. Structural and Multidisciplinary Optimization, 2016, 54, 333-347.	3.5	18
148	A comparative study energy consumption and costs of battery electric vehicle transmissions. Applied Energy, 2016, 165, 119-134.	10.1	128
149	Comparison of electromagnetic and piezoelectric vibration energy harvesters with different interface circuits. Mechanical Systems and Signal Processing, 2016, 72-73, 906-924.	8.0	32
150	Load-dependent observer design for active suspension systems. International Journal of Vehicle Design, 2015, 68, 162.	0.3	2
151	Modelling and optimisation of pure electric vehicle powertrains: a comparison of single and two speed transmissions. International Journal of Vehicle Performance, 2015, 2, 85.	0.4	2
152	A Condensation Method for the Dynamic Analysis of Vertical Vehicle-Track Interaction Considering Vehicle Flexibility. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	56
153	Tyre Load Analysis of Hydro-Pneumatic Interconnected Suspension with Zero Warp Suspension Stiffness. , 2015, , .		1
154	Vehicle Parameter Estimation Based on Full-Car Dynamic Testing. SAE International Journal of Passenger Cars - Mechanical Systems, 2015, 8, 442-448.	0.4	2
155	A New Physical Parameter Identification Method for Two-Axis On-Road Vehicles: Simulation and Experiment. Shock and Vibration, 2015, 2015, 1-9.	0.6	20
156	The Interval Uncertain Optimization Strategy Based on Chebyshev Meta-model. Springer Proceedings in Mathematics and Statistics, 2015, , 203-216.	0.2	3
157	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. Engineering Optimization, 2015, 47, 1264-1288.	2.6	18
158	Vibration effect and control of In-Wheel Switched Reluctance Motor for electric vehicle. Journal of Sound and Vibration, 2015, 338, 105-120.	3.9	62
159	Numerical investigations into shift transients of a dual clutch transmission equipped powertrains with multiple nonlinearities. JVC/Journal of Vibration and Control, 2015, 21, 1473-1486.	2.6	15
160	Predictive-model-based dynamic coordination control strategy for power-split hybrid electric bus. Mechanical Systems and Signal Processing, 2015, 60-61, 785-798.	8.0	62
161	Topology optimization of compliant mechanisms using element-free Galerkin method. Advances in Engineering Software, 2015, 85, 61-72.	3.8	21
162	Side-slip angle estimation and stability control for a vehicle with a non-linear tyre model and a varying speed. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 486-505.	1.9	31

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163	Roll and pitch independently tuned interconnected suspension: modelling and dynamic analysis. <i>Vehicle System Dynamics</i> , 2015, 53, 1830-1849.	3.7	20
164	Characteristic analysis of pitch-resistant hydraulically interconnected suspensions for two-axle vehicles. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 3167-3188.	2.6	17
165	A new interval uncertain optimization method for structures using Chebyshev surrogate models. <i>Computers and Structures</i> , 2015, 146, 185-196.	4.4	80
166	A multi-material level set-based topology and shape optimization method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 1570-1586.	6.6	208
167	Real-time identification of vehicle motion-modes using neural networks. <i>Mechanical Systems and Signal Processing</i> , 2015, 50-51, 632-645.	8.0	17
168	A new uncertain analysis method and its application in vehicle dynamics. <i>Mechanical Systems and Signal Processing</i> , 2015, 50-51, 659-675.	8.0	114
169	Design, implementation and characterization of a novel bi-directional energy conversion system on DC motor drive using super-capacitors. <i>Applied Energy</i> , 2015, 153, 101-111.	10.1	25
170	Gear shift schedule design for multi-speed pure electric vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015, 229, 70-82.	1.9	46
171	An Element-Free Galerkin Method for Topology Optimization of Micro Compliant Mechanisms. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 217-226.	0.2	0
172	Motion-mode energy method for vehicle dynamics analysis and control. <i>Vehicle System Dynamics</i> , 2014, 52, 1-25.	3.7	29
173	Hybrid probabilistic interval dynamic analysis of vehicle-bridge interaction system with uncertainties. <i>International Journal of Structural Stability and Dynamics</i> , 2014, 14, 1350069.	2.4	1
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