

Nong Zhang

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

307
papers

6,362
citations

43
h-index

63
g-index

330
ext. papers

7,634
ext. citations

3.6
avg, IF

6.56
L-index

#	Paper	IF	Citations
307	The dynamic and economic performance study of a new Simpson planetary gearset based dual motor powertrain for electric vehicles. <i>Mechanism and Machine Theory</i> , 2022 , 167, 104579	4	1
306	Dynamics modeling and shift control of a novel spring-based synchronizer for electric vehicles. <i>Mechanism and Machine Theory</i> , 2022 , 168, 104586	4	1
305	Decoupling vibration control of a semi-active electrically interconnected suspension based on mechanical hardware-in-the-loop. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108455	7.8	2
304	Optimal sizing and energy management of an electric vehicle powertrain equipped with two motors and multi-gear ratios. <i>Mechanism and Machine Theory</i> , 2022 , 167, 104513	4	3
303	A Study of a New Bidirectional Pressure-Regulating Valve for Hydraulically Interconnected Suspension Systems. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2021 , 143,	1.2	1
302	Efficiency Analysis of a Dual-Motor Electric Vehicle Powertrain 2021 , 169-176		
301	A Novel Controllable Electromagnetic Variable Inertance Device for Vehicle Vibration Reduction 2021 , 103-109		
300	Modelling and Vibration Characteristics Analysis of a Parallel Hydraulic Hybrid Vehicle 2021 , 137-142		
299	Ecological cooperative adaptive cruise control of over-actuated electric vehicles with in-wheel motor in traffic flow. <i>IET Intelligent Transport Systems</i> , 2021 , 15, 765-780	2.4	
298	Comparison on Energy Economy and Vibration Characteristics of Electric and Hydraulic in-Wheel Drive Vehicles. <i>Energies</i> , 2021 , 14, 2290	3.1	3
297	Driving mode shift control for planetary gear based dual motor powertrain in electric vehicles. <i>Mechanism and Machine Theory</i> , 2021 , 158, 104217	4	9
296	Adaptive real-time optimal control for energy management strategy of extended range electric vehicle. <i>Energy Conversion and Management</i> , 2021 , 234, 113874	10.6	9
295	Friction observer-based hybrid controller for a seat suspension with semi-active electromagnetic damper. <i>Mechatronics</i> , 2021 , 76, 102568	3	1
294	Mode switching analysis and control for a parallel hydraulic hybrid vehicle. <i>Vehicle System Dynamics</i> , 2021 , 59, 928-948	2.8	8
293	A comprehensive tune of coupled roll and lateral dynamics and parameter sensitivity study for a vehicle fitted with hydraulically interconnected suspension system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021 , 235, 143-161	1.4	21
292	Shift characteristics of a bilateral Harpoon-shift synchronizer for electric vehicles equipped with clutchless AMTs. <i>Mechanical Systems and Signal Processing</i> , 2021 , 148, 107166	7.8	8
291	Dynamic analysis of unilateral harpoon-shift synchronizer for electric vehicles. <i>Mechanism and Machine Theory</i> , 2021 , 157, 104173	4	3

290	An Electromagnetic Variable Inertance and Damping Seat Suspension with Controllable Circuits. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	3
289	Corresponding drivability control and energy control strategy in uninterrupted multi-speed mining trucks. <i>Journal of the Franklin Institute</i> , 2021 , 358, 1214-1239	4	1
288	A Power Consumption and Total Cost of Ownership Analysis of Extended Range System for a Logistics Van. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	1
287	Real-Time Identification of Vehicle Motion-Modes 2021 , 167-173		
286	A novel robust event-triggered fault tolerant automatic steering control approach of autonomous land vehicles under in-vehicle network delay. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 2436-2464	3.6	22
285	A semi-active variable equivalent stiffness and inertance device implemented by an electrical network. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107676	7.8	6
284	Optimization and coordinated control of gear shift and mode transition for a dual-motor electric vehicle. <i>Mechanical Systems and Signal Processing</i> , 2021 , 158, 107731	7.8	8
283	Power on gear shift control strategy design for a parallel hydraulic hybrid vehicle. <i>Mechanical Systems and Signal Processing</i> , 2021 , 159, 107798	7.8	6
282	Fuzzy sampled-data H _∞ sliding-mode control for active hysteretic suspension of commercial vehicles with unknown actuator-disturbance. <i>Control Engineering Practice</i> , 2021 , 117, 104940	3.9	0
281	Real-time identification of vehicle body motion-modes based on motion-mode energy method. <i>Mechanical Systems and Signal Processing</i> , 2020 , 143, 106843	7.8	3
280	Intelligent estimation for electric vehicle mass with unknown uncertainties based on particle filter. <i>IET Intelligent Transport Systems</i> , 2020 , 14, 463-467	2.4	4
279	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	18
278	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	12
277	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	1.4	4
276	. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 10710-10723	6.8	1
275	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	3.5	20
274	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	3.6	9
273	Parameters optimization of two-speed powertrain of electric vehicle based on genetic algorithm. <i>Advances in Mechanical Engineering</i> , 2020 , 12, 168781402090165	1.2	11

272	Investigation of integrated uninterrupted dual input transmission and hybrid energy storage system for electric vehicles. <i>Applied Energy</i> , 2020 , 262, 114446	10.7	10
271	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 859-871	5.5	14
270	A robust online energy management strategy for fuel cell/battery hybrid electric vehicles. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14093-14107	6.7	31
269	A nonlinear magnetorheological elastomer model based on fractional viscoelasticity, magnetic dipole interactions, and adaptive smooth Coulomb friction. <i>Mechanical Systems and Signal Processing</i> , 2020 , 141, 106438	7.8	20
268	Parametric design and regenerative braking control of a parallel hydraulic hybrid vehicle. <i>Mechanism and Machine Theory</i> , 2020 , 146, 103714	4	16
267	Regenerative active suspension system with residual energy for in-wheel motor driven electric vehicle. <i>Applied Energy</i> , 2020 , 260, 114180	10.7	28
266	Optimal coordinating gearshift control of a two-speed transmission for battery electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2020 , 136, 106521	7.8	9
265	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	4
264	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	2.8	4
263	Rear-Steering Based Decentralized Control of Four-Wheel Steering Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 10899-10913	6.8	4
262	A New SSUKF Observer for Sliding Mode Force Tracking H _∞ Control of Electrohydraulic Active Suspension. <i>Asian Journal of Control</i> , 2020 , 22, 761-778	1.7	5
261	A novel manoeuvre stability controller based on vehicle state prediction and intellectual braking torque distribution. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020 , 234, 136-151	1.4	3
260	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6773-6784	8.9	12
259	Improvement of both handling stability and ride comfort of a vehicle via coupled hydraulically interconnected suspension and electronic controlled air spring. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020 , 234, 552-571	1.4	34
258	Using a low-cost bluetooth torque sensor for vehicle jerk and transient torque measurement. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2020 , 234, 423-437	1.4	4
257	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	1.4	17
256	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	1.4	4
255	Improvement of ride quality for patient lying in ambulance with a new hydro-pneumatic suspension. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401983780	1.2	26

254	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	4	21
253	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	1.4	11
252	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	12
251	Dynamic computation for rigid-flexible multibody systems with hybrid uncertainty of randomness and interval. <i>Multibody System Dynamics</i> , 2019 , 47, 43-64	2.8	5
250	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	1.4	1
249	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	7.4	3
248	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	7.8	37
247	Torque response characteristics of a controllable electromagnetic damper for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106238	7.8	7
246	An electromagnetic variable inertance device for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106259	7.8	32
245	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2019-2030	5.5	12
244	Design of the frequency tuning scheme for a semi-active vibration absorber. <i>Mechanism and Machine Theory</i> , 2019 , 140, 641-653	4	15
243	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,	2.5	16
242	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	1.4	6
241	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	2.4	7
240	A novel coaxial multi-mode hybrid transmission system for mining trucks. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019 , 233, 2492-2501	1.4	
239	Gearshift and brake distribution control for regenerative braking in electric vehicles with dual clutch transmission. <i>Mechanism and Machine Theory</i> , 2019 , 133, 1-22	4	28
238	Dynamic analysis and control for an electric vehicle with harpoon-shift synchronizer. <i>Mechanism and Machine Theory</i> , 2019 , 133, 750-766	4	11
237	Accelerated Adaptive Second Order Super-Twisting Sliding Mode Observer. <i>IEEE Access</i> , 2019 , 7, 25232-25238	3.5	8

236	Robust Deadbeat Predictive Power Control With a Discrete-Time Disturbance Observer for PWM Rectifiers Under Unbalanced Grid Conditions. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 287-300	7.2	41
235	An Optimized Real-Time Energy Management Strategy for the Power-Split Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1194-1202	4.8	26
234	Optimal preview position control for shifting actuators of automated manual transmission. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019 , 233, 440-452	1.4	2
233	Development of continuously variable transmission and multi-speed dual-clutch transmission for pure electric vehicle. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401875822	1.2	21
232	A robust energy management strategy for EVs with dual input power-split transmission. <i>Mechanical Systems and Signal Processing</i> , 2018 , 111, 442-455	7.8	15
231	Sliding-Mode Observer Based Voltage-Sensorless Model Predictive Power Control of PWM Rectifier Under Unbalanced Grid Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5550-5560	8.0	73
230	Shifting and power sharing control of a novel dual input clutchless transmission for electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2018 , 104, 725-743	7.8	35
229	Vibration control of an energy regenerative seat suspension with variable external resistance. <i>Mechanical Systems and Signal Processing</i> , 2018 , 106, 94-113	7.8	48
228	Deadbeat control based on a multipurpose disturbance observer for permanent magnet synchronous motors. <i>IET Electric Power Applications</i> , 2018 , 12, 708-716	1.8	36
227	Multi-objective component sizing for a battery-supercapacitor power supply considering the use of a power converter. <i>Energy</i> , 2018 , 142, 436-446	7.9	8
226	Dynamic Characteristics Analysis of an Ambulance with Hydraulically Interconnected Suspension System 2018 ,		2
225	Efficiency comparison of electric vehicles powertrains with dual motor and single motor input. <i>Mechanism and Machine Theory</i> , 2018 , 128, 569-585	4	45
224	Investigation of a Novel Coaxial Power-Split Hybrid Powertrain for Mining Trucks. <i>Energies</i> , 2018 , 11, 172	3.1	9
223	A novel shift control concept for multi-speed electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2018 , 112, 171-193	7.8	18
222	A new sequential sampling method for constructing the high-order polynomial surrogate models. <i>Engineering Computations</i> , 2018 , 35, 529-564	1.4	9
221	Power-on shifting in dual input clutchless power-shifting transmission for electric vehicles. <i>Mechanism and Machine Theory</i> , 2018 , 121, 487-501	4	40
220	Comparative fuel economy, cost and emissions analysis of a novel mild hybrid and conventional vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018 , 232, 1846-1862	1.4	10
219	Dynamic analysis of a vehicle with leaf spring based on the hysteresis model. <i>International Journal of Vehicle Performance</i> , 2018 , 4, 282	0.9	2

218	Enhanced Lateral and Roll Stability Study for a Two-Axle Bus via Hydraulically Interconnected Suspension Tuning. <i>SAE International Journal of Vehicle Dynamics, Stability, and NVH</i> , 2018 , 3, 5-18	0	18
217	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	0.9	
216	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	0.3	8
215	Robust Digital Current Control Based on Adaptive Disturbance Estimation for PMSM Drives with Low Pulse Ratio 2018 ,		1
214	Lateral Dynamics and Suspension Tuning for a Two-Axle Bus Fitted with Roll-Resistant Hydraulically Interconnected Suspension 2018 ,		1
213	Dynamic Characteristics Analysis of Vehicle Incorporating Hydraulically Interconnected Suspension System with Dual Accumulators. <i>Shock and Vibration</i> , 2018 , 2018, 1-15	1.1	3
212	Hardware-in-the-Loop Simulation for the Design and Testing of Motor in Advanced Powertrain Applications 2018 ,		2
211	Modelling and control of a novel two-speed transmission for electric vehicles. <i>Mechanism and Machine Theory</i> , 2018 , 127, 13-32	4	34
210	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	9
209	Level-set topology optimization for multimaterial and multifunctional mechanical metamaterials. <i>Engineering Optimization</i> , 2017 , 49, 22-42	2	40
208	A new hybrid uncertainty optimization method for structures using orthogonal series expansion. <i>Applied Mathematical Modelling</i> , 2017 , 45, 474-490	4.5	23
207	An Adaptive Power-Split Strategy for Battery Supercapacitor Powertrain Design, Simulation, and Experiment. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 9364-9375	7.2	59
206	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	1.4	10
205	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	1.2	12
204	Dynamic modelling and simulation of a manual transmission based mild hybrid vehicle. <i>Mechanism and Machine Theory</i> , 2017 , 112, 218-239	4	28
203	An innovative control strategy for a hybrid energy storage system (HESS) 2017 ,		1
202	Comparison of effect on motor among 2-, 3- and 4-speed transmission in electric vehicle 2017 ,		1
201	Dynamics and Control of Clutchless Automated Manual Transmissions for Electric Vehicles. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017 , 139,	1.6	27

200	Hybrid Synchronized PWM Schemes for Closed-Loop Current Control of High-Power Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6920-6929	8.9	28
199	Level-set topology optimization for mechanical metamaterials under hybrid uncertainties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 319, 414-441	5.7	75
198	An investigation of hybrid energy storage system in multi-speed electric vehicle. <i>Energy</i> , 2017 , 140, 291-306	7.9	48
197	A system analysis and modeling of a HEV based on ultracapacitor battery 2017 ,		3
196	A robust deadbeat predictive power control with sliding mode disturbance observer for PWM rectifiers 2017 ,		4
195	Target torque estimation for gearshift in dual clutch transmission with uncertain parameters. <i>Applied Mathematical Modelling</i> , 2017 , 51, 1-20	4.5	13
194	Speed sensorless model predictive current control with ability to start a free running induction motor. <i>IET Electric Power Applications</i> , 2017 , 11, 893-901	1.8	21
193	Powertrain dynamics and control of a two speed dual clutch transmission for electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2017 , 85, 1-15	7.8	79
192	Uncertain dynamic analysis for rigid-flexible mechanisms with random geometry and material properties. <i>Mechanical Systems and Signal Processing</i> , 2017 , 85, 487-511	7.8	26
191	A Method to Start Rotating Induction Motor Based on Speed Sensorless Model-Predictive Control. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 359-368	5.4	23
190	Enhanced Regenerative Braking Strategies for Electric Vehicles: Dynamic Performance and Potential Analysis. <i>Energies</i> , 2017 , 10, 1875	3.1	37
189	Investigation of the Influence of an Hydraulically Interconnected Suspension (HIS) on Steady-State Cornering 2017 ,		1
188	Active Hydraulically Interconnected Suspension. Modeling and Simulation 2017 ,		8
187	Off-Line Optimization Based Active Control of Torsional Oscillation for Electric Vehicle Drivetrain. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1261	2.6	6
186	Steady-state response of fluid-structure interactions in hydraulic piping system of passive interconnected suspensions. <i>International Journal of Vehicle Design</i> , 2016 , 72, 305	2.4	1
185	Dynamics analysis and design methodology of roll-resistant hydraulically interconnected suspensions for tri-axle straight trucks. <i>Journal of the Franklin Institute</i> , 2016 , 353, 4620-4651	4	25
184	A numerical study of the impact of wet clutch drag torque on the performance of two-speed electric vehicles. <i>International Journal of Vehicle Performance</i> , 2016 , 2, 178	0.9	
183	Two high performance position estimation schemes based on sliding-mode observer for sensorless SPMSM drives 2016 ,		2

182	Integrated design of cellular composites using a level-set topology optimization method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 309, 453-475	5.7	61
181	Physical parameter identification method based on modal analysis for two-axis on-road vehicles: Theory and simulation. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016 , 29, 756-764	2.5	7
180	Estimation method of state-of-charge for lithium-ion battery used in hybrid electric vehicles based on variable structure extended kalman filter. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2016 , 29, 717-726	2.5	8
179	Topological shape optimization of multifunctional tissue engineering scaffolds with level set method. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 54, 333-347	3.6	13
178	A comparative study energy consumption and costs of battery electric vehicle transmissions. <i>Applied Energy</i> , 2016 , 165, 119-134	10.7	85
177	Comparison of electromagnetic and piezoelectric vibration energy harvesters with different interface circuits. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 906-924	7.8	24
176	Modal and Dynamic Analysis of a Vehicle with Kinetic Dynamic Suspension System. <i>Shock and Vibration</i> , 2016 , 2016, 1-18	1.1	1
175	A Piecewise Hysteresis Model for a Damper of HIS System. <i>Shock and Vibration</i> , 2016 , 2016, 1-11	1.1	2
174	Vibration Modes and the Dynamic Behaviour of a Hydraulic Plunger Pump. <i>Shock and Vibration</i> , 2016 , 2016, 1-7	1.1	7
173	The Safety and Dynamic Performance of Blended Brake System on a Two-Speed DCT Based Battery Electric Vehicle. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2016 , 9, 143-153	0.3	7
172	Reducing the Peak-to-average Power Ratio for Electric Vehicles using Hybrid Energy Storage Systems (HESS). <i>World Electric Vehicle Journal</i> , 2016 , 8, 196-200	2.5	1
171	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4357-4366	8.9	70
170	Interval uncertain analysis of active hydraulically interconnected suspension system. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401664633	1.2	6
169	Dynamic computation of flexible multibody system with uncertain material properties. <i>Nonlinear Dynamics</i> , 2016 , 85, 1231-1254	5	14
168	Boundary condition handling approaches for the model reduction of a vehicle frame. <i>Mechanical Systems and Signal Processing</i> , 2016 , 75, 123-137	7.8	4
167	Topological design for mechanical metamaterials using a multiphase level set method. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 54, 937-952	3.6	14
166	Eliminating the torque hole: Using a mild hybrid EV architecture to deliver better driveability 2016 ,		4
165	The dynamic performance and economic benefit of a blended braking system in a multi-speed battery electric vehicle. <i>Applied Energy</i> , 2016 , 183, 1240-1258	10.7	38

164	Numerical investigations into shift transients of a dual clutch transmission equipped powertrains with multiple nonlinearities. <i>JVC/Journal of Vibration and Control</i> , 2015 , 21, 1473-1486	2	10
163	Predictive-model-based dynamic coordination control strategy for power-split hybrid electric bus. <i>Mechanical Systems and Signal Processing</i> , 2015 , 60-61, 785-798	7.8	49
162	Topology optimization of compliant mechanisms using element-free Galerkin method. <i>Advances in Engineering Software</i> , 2015 , 85, 61-72	3.6	16
161	Side-slip angle estimation and stability control for a vehicle with a non-linear tyre model and a varying speed. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015 , 229, 486-505	1.4	25
160	Roll and pitch independently tuned interconnected suspension: modelling and dynamic analysis. <i>Vehicle System Dynamics</i> , 2015 , 53, 1830-1849	2.8	13
159	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	13
158	A new interval uncertain optimization method for structures using Chebyshev surrogate models. <i>Computers and Structures</i> , 2015 , 146, 185-196	4.5	68
157	A multi-material level set-based topology and shape optimization method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 283, 1570-1586	5.7	162
156	Real-time identification of vehicle motion-modes using neural networks. <i>Mechanical Systems and Signal Processing</i> , 2015 , 50-51, 632-645	7.8	12
155	A new uncertain analysis method and its application in vehicle dynamics. <i>Mechanical Systems and Signal Processing</i> , 2015 , 50-51, 659-675	7.8	85
154	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	10.7	17
153	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	1.4	29
152	Load-dependent observer design for active suspension systems. <i>International Journal of Vehicle Design</i> , 2015 , 68, 162	2.4	2
151	Modelling and optimisation of pure electric vehicle powertrains: a comparison of single and two speed transmissions. <i>International Journal of Vehicle Performance</i> , 2015 , 2, 85	0.9	2
150	A Condensation Method for the Dynamic Analysis of Vertical Vehicle-Track Interaction Considering Vehicle Flexibility. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015 , 137,	1.6	43
149	Comparison of Powertrain System Configurations for Electric Passenger Vehicles 2015 ,		3
148	Implementation and Experimental Study of a Novel Air Spring Combined with Hydraulically Interconnected Suspension to Enhance Roll Stiffness on Buses 2015 ,		3
147	Vehicle Parameter Estimation Based on Full-Car Dynamic Testing. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2015 , 8, 442-448	0.3	2

146	Experimental Investigation of Interconnected Hydraulic Suspensions with Different Configurations to Soften Warp Mode for Improving Off-Road Vehicle Trafficability 2015 ,		1
145	A New Physical Parameter Identification Method for Two-Axis On-Road Vehicles: Simulation and Experiment. <i>Shock and Vibration</i> , 2015 , 2015, 1-9	1.1	10
144	The Interval Uncertain Optimization Strategy Based on Chebyshev Meta-model. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015 , 203-216	0.2	2
143	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. <i>Engineering Optimization</i> , 2015 , 47, 1264-1288	2	14
142	Vibration effect and control of In-Wheel Switched Reluctance Motor for electric vehicle. <i>Journal of Sound and Vibration</i> , 2015 , 338, 105-120	3.9	48
141	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	
140	Stochastic interval analysis of natural frequency and mode shape of structures with uncertainties. <i>Journal of Sound and Vibration</i> , 2014 , 333, 2483-2503	3.9	29
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130	Characteristic Analysis of Roll and Pitch Independently Controlled Hydraulically Interconnected Suspension. <i>SAE International Journal of Commercial Vehicles</i> , 2014 , 7, 170-176	1	6
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127	Switched control of vehicle suspension based on motion-mode detection. <i>Vehicle System Dynamics</i> , 2014 , 52, 142-165	2.8	40
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