

Nong Zhang

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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	control of active vehicle suspensions with actuator time delay. <i>Journal of Sound and Vibration</i> , 2007 , 301, 236-252	3.9	188
306	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
305	Fuzzy Control for Nonlinear Uncertain Electrohydraulic Active Suspensions With Input Constraint. <i>IEEE Transactions on Fuzzy Systems</i> , 2009 , 17, 343-356	8.3	162
304	Interval uncertain method for multibody mechanical systems using Chebyshev inclusion functions. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 95, 608-630	2.4	135
303	Topological shape optimization of microstructural metamaterials using a level set method. <i>Computational Materials Science</i> , 2014 , 87, 178-186	3.2	118
302	Stabilizing Vehicle Lateral Dynamics With Considerations of Parameter Uncertainties and Control Saturation Through Robust Yaw Control. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2593-2597	6.8	104
301	Semi-active variable stiffness vibration control of vehicle seat suspension using an MR elastomer isolator. <i>Smart Materials and Structures</i> , 2011 , 20, 105003	3.4	100
300	Control of gear shifts in dual clutch transmission powertrains. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 1923-1936	7.8	91
299	Application of evolving TakagiBugeno fuzzy model to nonlinear system identification. <i>Applied Soft Computing Journal</i> , 2008 , 8, 676-686	7.5	89
298	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
297	A comparative study energy consumption and costs of battery electric vehicle transmissions. <i>Applied Energy</i> , 2016 , 165, 119-134	10.7	85
296	Hydraulically interconnected vehicle suspension: background and modelling. <i>Vehicle System Dynamics</i> , 2010 , 48, 17-40	2.8	85
295	Integrated Seat and Suspension Control for a Quarter Car With Driver Model. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3893-3908	6.8	83
294	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
293	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
292	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	8.9	73
291	Numerical and experimental investigation of drag torque in a two-speed dual clutch transmission. <i>Mechanism and Machine Theory</i> , 2014 , 79, 46-63	4	73

290	Topology optimization of structures using meshless density variable approximants. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 93, 443-464	2.4	71
289	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 4357-4366	8.9	70
288	Parameter-dependent input-delayed control of uncertain vehicle suspensions. <i>Journal of Sound and Vibration</i> , 2008 , 317, 537-556	3.9	69
287	A new interval uncertain optimization method for structures using Chebyshev surrogate models. <i>Computers and Structures</i> , 2015 , 146, 185-196	4.5	68
286	Interval multi-objective optimisation of structures using adaptive Kriging approximations. <i>Computers and Structures</i> , 2013 , 119, 68-84	4.5	63
285	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
284	An interval uncertain optimization method for vehicle suspensions using Chebyshev metamodels. <i>Applied Mathematical Modelling</i> , 2014 , 38, 3706-3723	4.5	60
283	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
282	Velocity-dependent robust control for improving vehicle lateral dynamics. <i>Transportation Research Part C: Emerging Technologies</i> , 2011 , 19, 454-468	8.4	59
281	Modelling of a magneto-rheological damper by evolving radial basis function networks. <i>Engineering Applications of Artificial Intelligence</i> , 2006 , 19, 869-881	7.2	58
280	Micromechanics of braided composites via multivariable FEM. <i>Computers and Structures</i> , 2003 , 81, 2021-2027	4.9	55
279	Hydraulically interconnected vehicle suspension: handling performance. <i>Vehicle System Dynamics</i> , 2011 , 49, 87-106	2.8	52
278	Time series prediction using evolving radial basis function networks with new encoding scheme. <i>Neurocomputing</i> , 2008 , 71, 1388-1400	5.4	52
277	Torsional finite elements and nonlinear numerical modelling in vehicle powertrain dynamics. <i>Journal of Sound and Vibration</i> , 2005 , 284, 825-849	3.9	52
276	Modelling of dual clutch transmission equipped powertrains for shift transient simulations. <i>Mechanism and Machine Theory</i> , 2013 , 60, 47-59	4	51
275	Modelling, Simulations, and Optimisation of Electric Vehicles for Analysis of Transmission Ratio Selection. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 340435	1.2	50
274	H _∞ control for buildings with time delay in control via linear matrix inequalities and genetic algorithms. <i>Engineering Structures</i> , 2008 , 30, 81-92	4.7	50
273	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

272	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
271	An investigation of hybrid energy storage system in multi-speed electric vehicle. <i>Energy</i> , 2017 , 140, 291-306	3.6	48
270	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
269	Hydraulically interconnected vehicle suspension: theoretical and experimental ride analysis. <i>Vehicle System Dynamics</i> , 2010 , 48, 41-64	2.8	47
268	Impulsive response of an automatic transmission system with multiple clearances: Formulation, simulation and experiment. <i>Journal of Sound and Vibration</i> , 2007 , 306, 444-466	3.9	47
267	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
266	Structural shape and topology optimization using a meshless Galerkin level set method. <i>International Journal for Numerical Methods in Engineering</i> , 2012 , 90, 369-389	2.4	45
265	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
264	Direct voltage control of magnetorheological damper for vehicle suspensions. <i>Smart Materials and Structures</i> , 2013 , 22, 105016	3.4	43
263	Investigation into untripped rollover of light vehicles in the modified fishhook and the sine maneuvers. Part I: Vehicle modelling, roll and yaw instability. <i>Vehicle System Dynamics</i> , 2008 , 46, 271-293	2.8	43
262	Interval dynamic response analysis of vehicle-bridge interaction system with uncertainty. <i>Journal of Sound and Vibration</i> , 2013 , 332, 3218-3231	3.9	41
261	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
260	Level-set topology optimization for multimaterial and multifunctional mechanical metamaterials. <i>Engineering Optimization</i> , 2017 , 49, 22-42	2	40
259	Switched control of vehicle suspension based on motion-mode detection. <i>Vehicle System Dynamics</i> , 2014 , 52, 142-165	2.8	40
258	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
257	Development of a torsional dynamic absorber using a magnetorheological elastomer for vibration reduction of a powertrain test rig. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 2036-2044	2.3	39
256	Suppression of the primary resonance vibrations of a forced nonlinear system using a dynamic vibration absorber. <i>Journal of Sound and Vibration</i> , 2010 , 329, 2044-2056	3.9	39
255	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

254	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
253	Enhanced Regenerative Braking Strategies for Electric Vehicles: Dynamic Performance and Potential Analysis. <i>Energies</i> , 2017 , 10, 1875	3.1	37
252	Field measurements of amplitude-dependent damping in a 79-storey tall building and its effects on the structural dynamic responses. <i>Structural Design of Tall Buildings</i> , 2002 , 11, 129-153		37
251	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
250	Modelling and characteristic analysis of tri-axle trucks with hydraulically interconnected suspensions. <i>Vehicle System Dynamics</i> , 2012 , 50, 1877-1904	2.8	36
249	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
248	Active damping of transient vibration in dual clutch transmission equipped powertrains: A comparison of conventional and hybrid electric vehicles. <i>Mechanism and Machine Theory</i> , 2014 , 77, 1-12	4	34
247	A method for estimation of vehicle inertial parameters. <i>Vehicle System Dynamics</i> , 2010 , 48, 547-565	2.8	34
246	Combinatorial optimal design of number and positions of actuators in actively controlled structures using genetic algorithms. <i>Journal of Sound and Vibration</i> , 2004 , 270, 611-624	3.9	34
245	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
244	Modelling and control of a novel two-speed transmission for electric vehicles. <i>Mechanism and Machine Theory</i> , 2018 , 127, 13-32	4	34
243	An electromagnetic variable inertance device for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106259	7.8	32
242	Actuator saturation control of uncertain structures with input time delay. <i>Journal of Sound and Vibration</i> , 2011 , 330, 4399-4412	3.9	32
241	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
240	A new method for random vibration analysis of stochastic truss structures. <i>Finite Elements in Analysis and Design</i> , 2009 , 45, 190-199	2.2	31
239	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
238	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
237	Dynamic modelling and simulation of a manual transmission based mild hybrid vehicle. <i>Mechanism and Machine Theory</i> , 2017 , 112, 218-239	4	28

236	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
235	Robust Fuzzy Control of an Active Magnetic Bearing Subject to Voltage Saturation. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 164-169	4.8	28
234	A stochastic quarter-car model for dynamic analysis of vehicles with uncertain parameters. <i>Vehicle System Dynamics</i> , 2008 , 46, 1159-1169	2.8	28
233	Regenerative active suspension system with residual energy for in-wheel motor driven electric vehicle. <i>Applied Energy</i> , 2020 , 260, 114180	10.7	28
232	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
231	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
230	Engagement and control of synchroniser mechanisms in dual clutch transmissions. <i>Mechanical Systems and Signal Processing</i> , 2012 , 26, 320-332	7.8	27
229	Frequency domain analysis of fluid-structure interaction in liquid-filled pipe systems by transfer matrix method. <i>International Journal of Mechanical Sciences</i> , 2002 , 44, 2067-2087	5.5	27
228	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
227	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
226	An uncertain multidisciplinary design optimization method using interval convex models. <i>Engineering Optimization</i> , 2013 , 45, 697-718	2	26
225	Micromechanics of composite materials using multivariable finite element method and homogenization theory. <i>International Journal of Solids and Structures</i> , 2001 , 38, 3007-3020	3.1	26
224	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
223	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
222	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
221	Motion-mode energy method for vehicle dynamics analysis and control. <i>Vehicle System Dynamics</i> , 2014 , 52, 1-25	2.8	25
220	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
219	Designing H _∞ /GH ₂ static-output feedback controller for vehicle suspensions using linear matrix inequalities and genetic algorithms. <i>Vehicle System Dynamics</i> , 2008 , 46, 385-412	2.8	24

218	A new hybrid uncertainty optimization method for structures using orthogonal series expansion. <i>Applied Mathematical Modelling</i> , 2017 , 45, 474-490	4.5	23
217	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
216	Experimental Investigation of a Hydraulically Interconnected Suspension in Vehicle Dynamics and Stability Control. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2012 , 5, 759-768	0.3	22
215	Two-Speed DCT Electric Powertrain Shifting Control and Rig Testing. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 323917	1.2	22
214	A multilevel genetic algorithm for the optimum design of structural control systems. <i>International Journal for Numerical Methods in Engineering</i> , 2002 , 55, 817-834	2.4	22
213	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
212	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
211	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
210	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
209	Nonlinear Modeling and Analysis of Direct Acting Solenoid Valves for Clutch Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136,	1.6	21
208	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
207	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
206	MODELLING DYNAMICS OF A CONTINUOUS STRUCTURE WITH A PIEZOELECTRIC SENSORACTUATOR FOR PASSIVE STRUCTURAL CONTROL. <i>Journal of Sound and Vibration</i> , 2002 , 249, 251-261	3.9	20
205	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
204	Robust sampled-data control of structures subject to parameter uncertainties and actuator saturation. <i>Engineering Structures</i> , 2012 , 36, 39-48	4.7	19
203	Vibration Control of Vehicle Seat Integrating with Chassis Suspension and Driver Body Model. <i>Advances in Structural Engineering</i> , 2013 , 16, 1-9	1.9	19
202	Active Vibration Control of Structures Subject to Parameter Uncertainties and Actuator Delay. <i>JVC/Journal of Vibration and Control</i> , 2008 , 14, 689-709	2	19
201	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

200	A novel shift control concept for multi-speed electric vehicles. <i>Mechanical Systems and Signal Processing</i> , 2018 , 112, 171-193	7.8	18
199	Performance Improvement of a Two Speed EV through Combined Gear Ratio and Shift Schedule Optimization 2013 ,		18
198	Dynamic model of the grinding process. <i>Journal of Sound and Vibration</i> , 2005 , 280, 425-432	3.9	18
197	Multi-level design model and genetic algorithm for structural control system optimization. <i>Earthquake Engineering and Structural Dynamics</i> , 2001 , 30, 927-942	4	18
196	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
195	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
194	Energy-to-peak control of seismic-excited buildings with input delay. <i>Structural Control and Health Monitoring</i> , 2007 , 14, 947-970	4.5	17
193	A new procedure for static analysis of thermo-electric laminated composite plates under cylindrical bending. <i>Composite Structures</i> , 2002 , 56, 131-140	5.3	17
192	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
191	Topology optimization of compliant mechanisms using element-free Galerkin method. <i>Advances in Engineering Software</i> , 2015 , 85, 61-72	3.6	16
190	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
189	Recent developments in passive interconnected vehicle suspension. <i>Frontiers of Mechanical Engineering in China</i> , 2010 , 5, 1-18		16
188	Impeller behavior and displacement of the VentrAssist implantable rotary blood pump. <i>Artificial Organs</i> , 2004 , 28, 287-97	2.6	16
187	DYNAMIC CONDENSATION OF MASS AND STIFFNESS MATRICES. <i>Journal of Sound and Vibration</i> , 1995 , 188, 601-615	3.9	16
186	Parametric design and regenerative braking control of a parallel hydraulic hybrid vehicle. <i>Mechanism and Machine Theory</i> , 2020 , 146, 103714	4	16
185	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
184	Design of the frequency tuning scheme for a semi-active vibration absorber. <i>Mechanism and Machine Theory</i> , 2019 , 140, 641-653	4	15
183	Investigation of synchroniser engagement in dual clutch transmission equipped powertrains. <i>Journal of Sound and Vibration</i> , 2012 , 331, 1398-1412	3.9	15

182	Static Output Feedback Control for Electrohydraulic Active Suspensions via TS Fuzzy Model Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131,	1.6	15
181	Robust control of vehicle electrorheological suspension subject to measurement noises. <i>Vehicle System Dynamics</i> , 2011 , 49, 257-275	2.8	15
180	Experimental determination of dynamic characteristics of the VentrAssist implantable rotary blood pump. <i>Artificial Organs</i> , 2004 , 28, 1089-94	2.6	15
179	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 859-871	5.5	14
178	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. <i>Engineering Optimization</i> , 2015 , 47, 1264-1288	2	14
177	A meshfree level-set method for topological shape optimization of compliant multiphysics actuators. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 223-224, 133-152	5.7	14
176	Modelling and simulation of gear synchronisation and shifting in dual-clutch transmission equipped powertrains. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013 , 227, 276-287	1.3	14
175	Mixed H2/H ∞ control of tall buildings with reduced-order modelling technique. <i>Structural Control and Health Monitoring</i> , 2008 , 15, 64-89	4.5	14
174	Dynamic computation of flexible multibody system with uncertain material properties. <i>Nonlinear Dynamics</i> , 2016 , 85, 1231-1254	5	14
173	Topological design for mechanical metamaterials using a multiphase level set method. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 54, 937-952	3.6	14
172	Roll and pitch independently tuned interconnected suspension: modelling and dynamic analysis. <i>Vehicle System Dynamics</i> , 2015 , 53, 1830-1849	2.8	13
171	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
170	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
169	Target torque estimation for gearshift in dual clutch transmission with uncertain parameters. <i>Applied Mathematical Modelling</i> , 2017 , 51, 1-20	4.5	13
168	Model-based Fuzzy Control for Buildings Installed with Magneto-rheological Dampers. <i>Journal of Intelligent Material Systems and Structures</i> , 2009 , 20, 1091-1105	2.3	13
167	Dynamic Modeling of Hydraulic Power Steering System with Variable Ratio Rack and Pinion Gear. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2005 , 48, 251-260		13
166	Modelling of structural response and optimization of structural control system using neural network and genetic algorithm. <i>Structural Design of Tall Buildings</i> , 2000 , 9, 279-293		13
165	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

164	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
163	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
162	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
161	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2019-2030	5.5	12
160	Difference resonances in a controlled van der Pol-Duffing oscillator involving time delay. <i>Chaos, Solitons and Fractals</i> , 2009 , 42, 975-980	9.3	12
159	Additive resonances of a controlled van der Pol-Duffing oscillator. <i>Journal of Sound and Vibration</i> , 2008 , 315, 22-33	3.9	12
158	The exact solution of coupled thermoelectroelastic behavior of piezoelectric laminates. <i>Computers and Structures</i> , 2002 , 80, 1201-1212	4.5	12
157	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
156	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
155	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
154	Investigation into on-road vehicle parameter identification based on subspace methods. <i>Journal of Sound and Vibration</i> , 2014 , 333, 6760-6779	3.9	11
153	Transmission of Engine Harmonics to Synchronizer Mechanisms in Dual Clutch Transmissions. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2014 , 136,	1.6	11
152	Simulations of drag torque affecting synchronisers in a dual clutch transmission. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2011 , 28, 119-140	0.6	11
151	Dynamic analysis and control for an electric vehicle with harpoon-shift synchronizer. <i>Mechanism and Machine Theory</i> , 2019 , 133, 750-766	4	11
150	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
149	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
148	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
147	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

146	Kinematics of a smart variable caster mechanism for a vehicle steerable wheel. <i>Vehicle System Dynamics</i> , 2012 , 50, 1861-1875	2.8	10
145	Nonlinear response of a forced van der Pol-Duffing oscillator at non-resonant bifurcations of codimension two. <i>Chaos, Solitons and Fractals</i> , 2009 , 41, 1467-1475	9.3	10
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139	Investigation of a Novel Coaxial Power-Split Hybrid Powertrain for Mining Trucks. <i>Energies</i> , 2018 , 11, 172	3.1	9
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81	A system analysis and modeling of a HEV based on ultracapacitor battery 2017 ,		3
80	Comparison of Powertrain System Configurations for Electric Passenger Vehicles 2015 ,		3
79	Implementation and Experimental Study of a Novel Air Spring Combined with Hydraulically Interconnected Suspension to Enhance Roll Stiffness on Buses 2015 ,		3
78	Design of Hydraulically Interconnected Suspension Systems for Tri-axle Straight Trucks with Rear Tandem Axle Bogie Suspensions. <i>SAE International Journal of Commercial Vehicles</i> , 2013 , 6, 200-208	1	3
77	Robust Vehicle Stability Control Based on Sideslip Angle Estimation 2011 ,		3
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72	Seismic random vibration analysis of shear beams with random structural parameters. <i>Journal of Mechanical Science and Technology</i> , 2010 , 24, 497-504	1.6	3
71	Robust active suspension design subject to vehicle inertial parameter variations. <i>International Journal of Automation and Computing</i> , 2010 , 7, 419-427	3.5	3
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62	Two high performance position estimation schemes based on sliding-mode observer for sensorless SPMSM drives 2016 ,		2
61	Dynamic Characteristics Analysis of an Ambulance with Hydraulically Interconnected Suspension System 2018 ,		2
60	Load-dependent observer design for active suspension systems. <i>International Journal of Vehicle Design</i> , 2015 , 68, 162	2.4	2
59	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
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55	Development and implementation of fuzzy, fuzzy PID and LQR controllers for an roll-plane active Hydraulically Interconnected Suspension 2014 ,		2
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52	Robust controller design for vehicle semi-active suspensions with electrorheological dampers 2009 ,		2
51	Parameter Design of a Parallel Hydraulic Hybrid Vehicle Driving System Based on Regenerative Braking Control Strategy		2
50	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
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42	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
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39	Investigation of the Influence of an Hydraulically Interconnected Suspension (HIS) on Steady-State Cornering 2017 ,		1

38	Experimental Investigation of Interconnected Hydraulic Suspensions with Different Configurations to Soften Warp Mode for Improving Off-Road Vehicle Trafficability 2015 ,		1
37	Hybrid probabilistic interval dynamic analysis of vehicle-bridge interaction system with uncertainties. <i>International Journal of Structural Stability and Dynamics</i> , 2014 , 14, 1350069	1.9	1
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35	Experimental Study of a Roll-Plane Hydraulically Interconnected Suspension System Under Vehicle Articulation Mode 2013 ,		1
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32	Probabilistic and Interval Static Response Analysis of Truss Structures with Uncertain Parameters. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2008 , 9, 260-269	0.7	1
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30	A FINITE ELEMENT METHOD FOR DYNAMIC ANALYSIS OF AUTOMATIC TRANSMISSION GEAR SHIFTING. <i>The Proceedings of the International Conference on Motion and Vibration Control</i> , 2002 , 6.1, 514-519	0	1
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27	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
26	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
25	Friction observer-based hybrid controller for a seat suspension with semi-active electromagnetic damper. <i>Mechatronics</i> , 2021 , 76, 102568	3	1
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22	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
21	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

20	Robust Digital Current Control Based on Adaptive Disturbance Estimation for PMSM Drives with Low Pulse Ratio 2018 ,		1
19	Lateral Dynamics and Suspension Tuning for a Two-Axle Bus Fitted with Roll-Resistant Hydraulically Interconnected Suspension 2018 ,		1
18	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
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8	A Novel Controllable Electromagnetic Variable Inertance Device for Vehicle Vibration Reduction 2021 , 103-109		
7	Modelling and Vibration Characteristics Analysis of a Parallel Hydraulic Hybrid Vehicle 2021 , 137-142		
6	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	
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