Nong Zhang

List of Publications by Year
in descending order

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		38742	76900
328	8,860	50	74
papers	citations	h-index	g-index

330	330	330	5002
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	control of active vehicle suspensions with actuator time delay. Journal of Sound and Vibration, 2007, 301, 236-252.	3.9	232
2	Fuzzy Control for Nonlinear Uncertain Electrohydraulic Active Suspensions With Input Constraint. IEEE Transactions on Fuzzy Systems, 2009, 17, 343-356.	9.8	208
3	A multi-material level set-based topology and shape optimization method. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1570-1586.	6.6	208
4	Interval uncertain method for multibody mechanical systems using Chebyshev inclusion functions. International Journal for Numerical Methods in Engineering, 2013, 95, 608-630.	2.8	169
5	Topological shape optimization of microstructural metamaterials using a level set method. Computational Materials Science, 2014, 87, 178-186.	3.0	151
6	Semi-active variable stiffness vibration control of vehicle seat suspension using an MR elastomer isolator. Smart Materials and Structures, 2011, 20, 105003.	3.5	142
7	Stabilizing Vehicle Lateral Dynamics With Considerations of Parameter Uncertainties and Control Saturation Through Robust Yaw Control. IEEE Transactions on Vehicular Technology, 2010, 59, 2593-2597.	6.3	132
8	A comparative study energy consumption and costs of battery electric vehicle transmissions. Applied Energy, 2016, 165, 119-134.	10.1	128
9	Application of evolving Takagiâ€“Sugeno fuzzy model to nonlinear system identification. Applied Soft Computing Journal, 2008, 8, 676-686.	7.2	116
10	A new uncertain analysis method and its application in vehicle dynamics. Mechanical Systems and Signal Processing, 2015, 50-51, 659-675.	8.0	114
11	Control of gear shifts in dual clutch transmission powertrains. Mechanical Systems and Signal Processing, 2011, 25, 1923-1936.	8.0	113
12	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
13	Integrated Seat and Suspension Control for a Quarter Car With Driver Model. IEEE Transactions on Vehicular Technology, 2012, 61, 3893-3908.	6.3	108
14	Hydraulically interconnected vehicle suspension: background and modelling. Vehicle System Dynamics, 2010, 48, 17-40.	3.7	106
15	A Novel Observer Design for Simultaneous Estimation of Vehicle Steering Angle andÂSideslip Angle. IEEE Transactions on Industrial Electronics, 2016, 63, 4357-4366.	7.9	105
16	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
17	Level-set topology optimization for mechanical metamaterials under hybrid uncertainties. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 414-441.	6.6	91
18	Efficiency comparison of electric vehicles powertrains with dual motor and single motor input. Mechanism and Machine Theory, 2018, 128, 569-585.	4.5	89

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19	Parameter-dependent input-delayed control of uncertain vehicle suspensions. Journal of Sound and Vibration, 2008, 317, 537-556.	3.9	87
20	Numerical and experimental investigation of drag torque in a two-speed dual clutch transmission. Mechanism and Machine Theory, 2014, 79, 46-63.	4.5	87
21	An Adaptive Power-Split Strategy for Batteryâ€“Supercapacitor Powertrainâ€”Design, Simulation, and Experiment. IEEE Transactions on Power Electronics, 2017, 32, 9364-9375.	7.9	86
22	Topology optimization of structures using meshless density variable approximants. International Journal for Numerical Methods in Engineering, 2013, 93, 443-464.	2.8	83
23	A new interval uncertain optimization method for structures using Chebyshev surrogate models. Computers and Structures, 2015, 146, 185-196.	4.4	80
24	Velocity-dependent robust control for improving vehicle lateral dynamics. Transportation Research Part C: Emerging Technologies, 2011, 19, 454-468.	7.6	76
25	An interval uncertain optimization method for vehicle suspensions using Chebyshev metamodels. Applied Mathematical Modelling, 2014, 38, 3706-3723.	4.2	72
26	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
27	An investigation of hybrid energy storage system in multi-speed electric vehicle. Energy, 2017, 140, 291-306.	8.8	70
28	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
29	Interval multi-objective optimisation of structures using adaptive Kriging approximations. Computers and Structures, 2013, 119, 68-84.	4.4	69
30	Modelling of a magneto-rheological damper by evolving radial basis function networks. Engineering Applications of Artificial Intelligence, 2006, 19, 869-881.	8.1	68
31	Torsional finite elements and nonlinear numerical modelling in vehicle powertrain dynamics. Journal of Sound and Vibration, 2005, 284, 825-849.	3.9	67
32	Suppression of the primary resonance vibrations of a forced nonlinear system using a dynamic vibration absorber. Journal of Sound and Vibration, 2010, 329, 2044-2056.	3.9	67
33	Hydraulically interconnected vehicle suspension: handling performance. Vehicle System Dynamics, 2011, 49, 87-106.	3.7	67
34	Modelling, Simulations, and Optimisation of Electric Vehicles for Analysis of Transmission Ratio Selection. Advances in Mechanical Engineering, 2013, 5, 340435.	1.6	67
35	control for buildings with time delay in control via linear matrix inequalities and genetic algorithms. Engineering Structures, 2008, 30, 81-92.	5.3	64
36	Modelling of dual clutch transmission equipped powertrains for shift transient simulations. Mechanism and Machine Theory, 2013, 60, 47-59.	4.5	63

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37	Time series prediction using evolving radial basis function networks with new encoding scheme. Neurocomputing, 2008, 71, 1388-1400.	5.9	62
38	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
39	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
40	Vibration control of an energy regenerative seat suspension with variable external resistance. Mechanical Systems and Signal Processing, 2018, 106, 94-113.	8.0	62
41	Hydraulically interconnected vehicle suspension: theoretical and experimental ride analysis. Vehicle System Dynamics, 2010, 48, 41-64.	3.7	61
42	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
43	Micromechanics of braided composites via multivariable FEM. Computers and Structures, 2003, 81, 2021-2027.	4.4	60
44	Level-set topology optimization for multimaterial and multifunctional mechanical metamaterials. Engineering Optimization, 2017, 49, 22-42.	2.6	60
45	Modelling and control of a novel two-speed transmission for electric vehicles. Mechanism and Machine Theory, 2018, 127, 13-32.	4.5	59
46	Regenerative active suspension system with residual energy for in-wheel motor driven electric vehicle. Applied Energy, 2020, 260, 114180.	10.1	59
47	Direct voltage control of magnetorheological damper for vehicle suspensions. Smart Materials and Structures, 2013, 22, 105016.	3.5	57
48	Enhanced Regenerative Braking Strategies for Electric Vehicles: Dynamic Performance and Potential Analysis. Energies, 2017, 10, 1875.	3.1	57
49	A Condensation Method for the Dynamic Analysis of Vertical Vehicleâ€“Track Interaction Considering Vehicle Flexibility. Journal of Vibration and Acoustics, Transactions of the ASME, 2015, 137, .	1.6	56
50	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
51	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
52	Deadbeat control based on a multipurpose disturbance observer for permanent magnet synchronous motors. IET Electric Power Applications, 2018, 12, 708-716.	1.8	53
53	Impulsive response of an automatic transmission system with multiple clearances: Formulation, simulation and experiment. Journal of Sound and Vibration, 2007, 306, 444-466.	3.9	52
54	Structural shape and topology optimization using a meshless Galerkin level set method. International Journal for Numerical Methods in Engineering, 2012, 90, 369-389.	2.8	52

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55	A robust online energy management strategy for fuel cell/battery hybrid electric vehicles. International Journal of Hydrogen Energy, 2020, 45, 14093-14107.	7.1	51
56	Investigation into untripped rollover of light vehicles in the modified fishhook and the sine maneuvers. Part I: Vehicle modelling, roll and yaw instability. Vehicle System Dynamics, 2008, 46, 271-293.	3.7	50
57	Interval dynamic response analysis of vehicle-bridge interaction system with uncertainty. Journal of Sound and Vibration, 2013, 332, 3218-3231.	3.9	50
58	Switched control of vehicle suspension based on motion-mode detection. Vehicle System Dynamics, 2014, 52, 142-165.	3.7	50
59	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
60	Power-on shifting in dual input clutchless power-shifting transmission for electric vehicles. Mechanism and Machine Theory, 2018, 121, 487-501.	4.5	50
61	Active damping of transient vibration in dual clutch transmission equipped powertrains: A comparison of conventional and hybrid electric vehicles. Mechanism and Machine Theory, 2014, 77, 1-12.	4.5	49
62	An electromagnetic variable inertance device for seat suspension vibration control. Mechanical Systems and Signal Processing, 2019, 133, 106259.	8.0	49
63	A method for estimation of vehicle inertial parameters. Vehicle System Dynamics, 2010, 48, 547-565.	3.7	48
64	Development of a torsional dynamic absorber using a magnetorheological elastomer for vibration reduction of a powertrain test rig. Journal of Intelligent Material Systems and Structures, 2013, 24, 2036-2044.	2.5	47
65	Gear shift schedule design for multi-speed pure electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 70-82.	1.9	46
66	Combinatorial optimal design of number and positions of actuators in actively controlled structures using genetic algorithms. Journal of Sound and Vibration, 2004, 270, 611-624.	3.9	45
67	A novel nonlinear road profile classification approach for controllable suspension system: Simulation and experimental validation. Mechanical Systems and Signal Processing, 2019, 125, 79-98.	8.0	45
68	Robust Fuzzy Control of an Active Magnetic Bearing Subject to Voltage Saturation. IEEE Transactions on Control Systems Technology, 2010, 18, 164-169.	5.2	44
69	Actuator saturation control of uncertain structures with input time delay. Journal of Sound and Vibration, 2011, 330, 4399-4412.	3.9	44
70	Frequency domain analysis of fluidâ€“structure interaction in liquid-filled pipe systems by transfer matrix method. International Journal of Mechanical Sciences, 2002, 44, 2067-2087.	6.7	43
71	Modelling and characteristic analysis of tri-axle trucks with hydraulically interconnected suspensions. Vehicle System Dynamics, 2012, 50, 1877-1904.	3.7	43
72	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

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73	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
74	Field measurements of amplitude-dependent damping in a 79-storey tall building and its efects on the structural dynamic responses. Structural Design of Tall Buildings, 2002, 11, 129-153.	0.3	42
75	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
76	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
77	Dynamic modelling and simulation of a manual transmission based mild hybrid vehicle. Mechanism and Machine Theory, 2017, 112, 218-239.	4.5	40
78	A stochastic quarter-car model for dynamic analysis of vehicles with uncertain parameters. Vehicle System Dynamics, 2008, 46, 1159-1169.	3.7	37
79	Stochastic interval analysis of natural frequency and mode shape of structures with uncertainties. Journal of Sound and Vibration, 2014, 333, 2483-2503.	3.9	37
80	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
81	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
82	A novel robust eventâ€triggered fault tolerant automatic steering control approach of autonomous land vehicles under inâ€vehicle network delay. International Journal of Robust and Nonlinear Control, 2021, 31, 2436-2464.	3.7	36
83	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
84	Two-Speed DCT Electric Powertrain Shifting Control and Rig Testing. Advances in Mechanical Engineering, 2013, 5, 323917.	1.6	34
85	Improvement of ride quality for patient lying in ambulance with a new hydro-pneumatic suspension. Advances in Mechanical Engineering, 2019, 11, 168781401983780.	1.6	34
86	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
87	An uncertain multidisciplinary design optimization method using interval convex models. Engineering Optimization, 2013, 45, 697-718.	2.6	33
88	DesigningH_{â^ž}/GH₂static-output feedback controller for vehicle suspensions using linear matrix inequalities and genetic algorithms. Vehicle System Dynamics, 2008, 46, 385-412.	3.7	32
89	A new method for random vibration analysis of stochastic truss structures. Finite Elements in Analysis and Design, 2009, 45, 190-199.	3.2	32
90	Engagement and control of synchroniser mechanisms in dual clutch transmissions. Mechanical Systems and Signal Processing, 2012, 26, 320-332.	8.0	32

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91	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
92	Micromechanics of composite materials using multivariable finite element method and homogenization theory. International Journal of Solids and Structures, 2001, 38, 3007-3020.	2.7	31
93	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
94	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
95	Design of the frequency tuning scheme for a semi-active vibration absorber. Mechanism and Machine Theory, 2019, 140, 641-653.	4.5	31
96	MODELLING DYNAMICS OF A CONTINUOUS STRUCTURE WITH A PIEZOELECTRIC SENSORACTUATOR FOR PASSIVE STRUCTURAL CONTROL. Journal of Sound and Vibration, 2002, 249, 251-261.	3.9	30
97	A new hybrid uncertainty optimization method for structures using orthogonal series expansion. Applied Mathematical Modelling, 2017, 45, 474-490.	4.2	30
98	Parametric design and regenerative braking control of a parallel hydraulic hybrid vehicle. Mechanism and Machine Theory, 2020, 146, 103714.	4.5	30
99	Model and gear shifting control of a novel two-speed transmission for battery electric vehicles. Mechanism and Machine Theory, 2020, 152, 103902.	4.5	30
100	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. IEEE/ASME Transactions on Mechatronics, 2020, 25, 859-871.	5.8	30
101	Adaptive real-time optimal control for energy management strategy of extended range electric vehicle. Energy Conversion and Management, 2021, 234, 113874.	9.2	30
102	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
103	Motion-mode energy method for vehicle dynamics analysis and control. Vehicle System Dynamics, 2014, 52, 1-25.	3.7	29
104	Nonlinear Modeling and Analysis of Direct Acting Solenoid Valves for Clutch Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	29
105	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
106	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. IEEE Transactions on Industrial Electronics, 2020, 67, 6773-6784.	7.9	29
107	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
108	A rotary variable admittance device and its application in vehicle seat suspension vibration control. Journal of the Franklin Institute, 2019, 356, 7873-7895.	3.4	28

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109	Vibration Control of Vehicle Seat Integrating with Chassis Suspension and Driver Body Model. Advances in Structural Engineering, 2013, 16, 1-9.	2.4	27
110	Energy-to-peak control of seismic-excited buildings with input delay. Structural Control and Health Monitoring, 2007, 14, 947-970.	4.0	26
111	Active Vibration Control of Structures Subject to Parameter Uncertainties and Actuator Delay. JVC/Journal of Vibration and Control, 2008, 14, 689-709.	2.6	26
112	Performance Improvement of a Two Speed EV through Combined Gear Ratio and Shift Schedule Optimization. , 2013, , .		26
113	Design, implementation and characterization of a novel bi-directional energy conversion system on DC motor drive using super-capacitors. Applied Energy, 2015, 153, 101-111.	10.1	25
114	Enhanced Lateral and Roll Stability Study for a Two-Axle Bus via Hydraulically Interconnected Suspension Tuning. SAE International Journal of Vehicle Dynamics, Stability, and NVH, 0, 3, 5-18.	0.5	25
115	Vibration Performance Analysis of a Mining Vehicle with Bounce and Pitch Tuned Hydraulically Interconnected Suspension. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	3.7	25
116	Frequency-Based Modeling of a Vehicle Fitted With Roll-Plane Hydraulically Interconnected Suspension for Ride Comfort and Experimental Validation. IEEE Access, 2020, 8, 1091-1104.	4.2	25
117	A multilevel genetic algorithm for the optimum design of structural control systems. International Journal for Numerical Methods in Engineering, 2002, 55, 817-834.	2.8	24
118	Recent developments in passive interconnected vehicle suspension. Frontiers of Mechanical Engineering in China, 2010, 5, 1-18.	0.4	24
119	Robust sampled-data control of structures subject to parameter uncertainties and actuator saturation. Engineering Structures, 2012, 36, 39-48.	5.3	24
120	A novel shift control concept for multi-speed electric vehicles. Mechanical Systems and Signal Processing, 2018, 112, 171-193.	8.0	24
121	Parameters optimization of two-speed powertrain of electric vehicle based on genetic algorithm. Advances in Mechanical Engineering, 2020, 12, 168781402090165.	1.6	24
122	Multi-level design model and genetic algorithm for structural control system optimization. Earthquake Engineering and Structural Dynamics, 2001, 30, 927-942.	4.4	23
123	Experimental Investigation of a Hydraulically Interconnected Suspension in Vehicle Dynamics and Stability Control. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 5, 759-768.	0.4	23
124	Comprehensive design and optimization of an electric vehicle powertrain equipped with a two-speed dual-clutch transmission. Advances in Mechanical Engineering, 2017, 9, 168781401668314.	1.6	23
125	A Novel Electrical Variable Stiffness Device for Vehicle Seat Suspension Control With Mismatched Disturbance Compensation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2019-2030.	5.8	23
126	A condensed dynamic model of a heavy-duty truck for optimization of the powertrain mounting system considering the chassis frame flexibility. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 2602-2617.	1.9	23

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127	Dynamic model of the grinding process. Journal of Sound and Vibration, 2005, 280, 425-432.	3.9	22
128	Topology optimization of compliant mechanisms using element-free Galerkin method. Advances in Engineering Software, 2015, 85, 61-72.	3.8	21
129	Topological design for mechanical metamaterials using a multiphase level set method. Structural and Multidisciplinary Optimization, 2016, 54, 937-952.	3.5	21
130	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
131	Shifting strategy and energy management of a two-motor drive powertrain for extended-range electric buses. Mechanism and Machine Theory, 2020, 153, 103966.	4.5	21
132	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
133	DYNAMIC CONDENSATION OF MASS AND STIFFNESS MATRICES. Journal of Sound and Vibration, 1995, 188, 601-615.	3.9	20
134	Static Output Feedback Control for Electrohydraulic Active Suspensions via Tâ€“S Fuzzy Model Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	1.6	20
135	Robust control of vehicle electrorheological suspension subject to measurement noises. Vehicle System Dynamics, 2011, 49, 257-275.	3.7	20
136	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
137	Roll and pitch independently tuned interconnected suspension: modelling and dynamic analysis. Vehicle System Dynamics, 2015, 53, 1830-1849.	3.7	20
138	Investigation of integrated uninterrupted dual input transmission and hybrid energy storage system for electric vehicles. Applied Energy, 2020, 262, 114446.	10.1	20
139	A new procedure for static analysis of thermo-electric laminated composite plates under cylindrical bending. Composite Structures, 2002, 56, 131-140.	5.8	18
140	Dynamic Modeling of Hydraulic Power Steering System with Variable Ratio Rack and Pinion Gear. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 251-260.	0.3	18
141	Investigation of synchroniser engagement in dual clutch transmission equipped powertrains. Journal of Sound and Vibration, 2012, 331, 1398-1412.	3.9	18
142	Investigation into on-road vehicle parameter identification based on subspace methods. Journal of Sound and Vibration, 2014, 333, 6760-6779.	3.9	18
143	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. Engineering Optimization, 2015, 47, 1264-1288.	2.6	18
144	Topological shape optimization of multifunctional tissue engineering scaffolds with level set method. Structural and Multidisciplinary Optimization, 2016, 54, 333-347.	3.5	18

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145	Target torque estimation for gearshift in dual clutch transmission with uncertain parameters. Applied Mathematical Modelling, 2017, 51, 1-20.	4.2	18
146	An Electromagnetic Variable Inertance and Damping Seat Suspension With Controllable Circuits. IEEE Transactions on Industrial Electronics, 2022, 69, 2811-2821.	7.9	18
147	Impeller Behavior and Displacement of the VentrAssist Implantable Rotary Blood Pump. Artificial Organs, 2004, 28, 287-297.	1.9	17
148	Development of a Clunk Simulation Model for a Rear Wheel Drive Vehicle With Automatic Transmission. , 0, , .		17
149	Additive resonances of a controlled van der Polâ€“Duffing oscillator. Journal of Sound and Vibration, 2008, 315, 22-33.	3.9	17
150	Nonlinear response of a forced van der Polâ€“Duffing oscillator at non-resonant bifurcations of codimension two. Chaos, Solitons and Fractals, 2009, 41, 1467-1475.	5.1	17
151	A meshfree level-set method for topological shape optimization of compliant multiphysics actuators. Computer Methods in Applied Mechanics and Engineering, 2012, 223-224, 133-152.	6.6	17
152	Modelling and simulation of gear synchronisation and shifting in dual-clutch transmission equipped powertrains. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 276-287.	2.1	17
153	Characteristic analysis of pitch-resistant hydraulically interconnected suspensions for two-axle vehicles. JVC/Journal of Vibration and Control, 2015, 21, 3167-3188.	2.6	17
154	Real-time identification of vehicle motion-modes using neural networks. Mechanical Systems and Signal Processing, 2015, 50-51, 632-645.	8.0	17
155	Dynamic computation of flexible multibody system with uncertain material properties. Nonlinear Dynamics, 2016, 85, 1231-1254.	5.2	17
156	Efficiency improvement of vehicle active suspension based on multi-objective integrated optimization. JVC/Journal of Vibration and Control, 2017, 23, 539-554.	2.6	17
157	Difference resonances in a controlled van der Pol-Duffing oscillator involving time delay. Chaos, Solitons and Fractals, 2009, 42, 975-980.	5.1	16
158	Energy management and shifting stability control for a novel dual input clutchless transmission system. Mechanism and Machine Theory, 2019, 135, 298-321.	4.5	16
159	Mode switching analysis and control for a parallel hydraulic hybrid vehicle. Vehicle System Dynamics, 2021, 59, 928-948.	3.7	16
160	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
161	Driving mode shift control for planetary gear based dual motor powertrain in electric vehicles. Mechanism and Machine Theory, 2021, 158, 104217.	4.5	16
162	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

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163	The exact solution of coupled thermoelectroelastic behavior of piezoelectric laminates. Computers and Structures, 2002, 80, 1201-1212.	4.4	15
164	Experimental Determination of Dynamic Characteristics of the VentrAssist Implantable Rotary Blood Pump. Artificial Organs, 2004, 28, 1089-1094.	1.9	15
165	Mixed H2/Hâˆž control of tall buildings with reduced-order modelling technique. Structural Control and Health Monitoring, 2008, 15, 64-89.	4.0	15
166	Suppression of super-harmonic resonance response using a linear vibration absorber. Mechanics Research Communications, 2011, 38, 411-416.	1.8	15
167	Transmission of Engine Harmonics to Synchronizer Mechanisms in Dual Clutch Transmissions. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, .	1.6	15
168	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
169	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
170	Investigation of a Novel Coaxial Power-Split Hybrid Powertrain for Mining Trucks. Energies, 2018, 11, 172.	3.1	15
171	Dynamic analysis and control for an electric vehicle with harpoon-shift synchronizer. Mechanism and Machine Theory, 2019, 133, 750-766.	4.5	15
172	Optimal coordinating gearshift control of a two-speed transmission for battery electric vehicles. Mechanical Systems and Signal Processing, 2020, 136, 106521.	8.0	15
173	Rear-Steering Based Decentralized Control of Four-Wheel Steering Vehicle. IEEE Transactions on Vehicular Technology, 2020, 69, 10899-10913.	6.3	15
174	Robust adaptive backstepping sliding mode control for motion mode decoupling of twoâ€axle vehicles with active kinetic dynamic suspension systems. International Journal of Robust and Nonlinear Control, 2020, 30, 3110-3133.	3.7	15
175	Model-based Fuzzy Control for Buildings Installed with Magneto-rheological Dampers. Journal of Intelligent Material Systems and Structures, 2009, 20, 1091-1105.	2.5	14
176	Two Motor Two Speed Power-Train System Research of Pure Electric Vehicle. , 0, , .		14
177	Comparison of Power Consumption Efficiency of CVT and Multi-Speed Transmissions for Electric Vehicle. International Journal of Automotive Engineering, 2018, 9, 268-275.	0.5	14
178	A new sequential sampling method for constructing the high-order polynomial surrogate models. Engineering Computations, 2018, 35, 529-564.	1.4	14
179	Dynamic computation for rigidâ€“flexible multibody systems with hybrid uncertainty of randomness and interval. Multibody System Dynamics, 2019, 47, 43-64.	2.7	14
180	Modelling of structural response and optimization of structural control system using neural network and genetic algorithm. Structural Design of Tall Buildings, 2000, 9, 279-293.	0.3	13

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