

Yunqing Zhang

List of Publications by Year in descending order

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89
papers

2,227
citations

279798

23
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233421

45
g-index

91
all docs

91
docs citations

91
times ranked

1173
citing authors

#	ARTICLE	IF	CITATIONS
1	A Chebyshev interval method for nonlinear dynamic systems under uncertainty. Applied Mathematical Modelling, 2013, 37, 4578-4591.	4.2	214
2	Simulation of planar flexible multibody systems with clearance and lubricated revolute joints. Nonlinear Dynamics, 2010, 60, 489-511.	5.2	204
3	Dynamics of spatial flexible multibody systems with clearance and lubricated spherical joints. Computers and Structures, 2009, 87, 913-929.	4.4	184
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	A new uncertain analysis method and its application in vehicle dynamics. Mechanical Systems and Signal Processing, 2015, 50-51, 659-675.	8.0	114
6	Compliant mechanism design using multi-objective topology optimization scheme of continuum structures. Structural and Multidisciplinary Optimization, 2005, 30, 142-154.	3.5	107
7	Manufacturing- and machining-based topology optimization. International Journal of Advanced Manufacturing Technology, 2006, 27, 531-536.	3.0	82
8	A new interval uncertain optimization method for structures using Chebyshev surrogate models. Computers and Structures, 2015, 146, 185-196.	4.4	80
9	An interval uncertain optimization method for vehicle suspensions using Chebyshev metamodels. Applied Mathematical Modelling, 2014, 38, 3706-3723.	4.2	72
10	An Efficient Hybrid Method for Multibody Dynamics Simulation Based on Absolute Nodal Coordinate Formulation. Journal of Computational and Nonlinear Dynamics, 2009, 4, .	1.2	65
11	Nonlinear dynamic model of air spring with a damper for vehicle ride comfort. Nonlinear Dynamics, 2017, 89, 1545-1568.	5.2	61
12	A novel air spring dynamic model with pneumatic thermodynamics, effective friction and viscoelastic damping. Journal of Sound and Vibration, 2017, 408, 87-104.	3.9	57
13	Frequency analysis of a typical planar flexible multibody system with joint clearances. Mechanism and Machine Theory, 2018, 126, 429-456.	4.5	52
14	Modeling and optimization for pneumatically pitch-interconnected suspensions of a vehicle. Journal of Sound and Vibration, 2018, 432, 290-309.	3.9	45
15	Study of key algorithms in topology optimization. International Journal of Advanced Manufacturing Technology, 2007, 32, 787-796.	3.0	43
16	Simulation of a viscoelastic flexible multibody system using absolute nodal coordinate and fractional derivative methods. Multibody System Dynamics, 2009, 21, 281-303.	2.7	42
17	A novel approach for lower frequency performance design of hydraulic engine mounts. Computers and Structures, 2006, 84, 572-584.	4.4	36
18	Fuzzy tolerance multilevel approach for structural topology optimization. Computers and Structures, 2006, 84, 127-140.	4.4	35

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19	Uncertain dynamic analysis for rigid-flexible mechanisms with random geometry and material properties. <i>Mechanical Systems and Signal Processing</i> , 2017, 85, 487-511.	8.0	35
20	A dynamic sliding-mode controller with fuzzy adaptive tuning for an active suspension system. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007, 221, 417-428.	1.9	32
21	On the workspace boundary determination of serial manipulators with non-unilateral constraints. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008, 24, 60-76.	9.9	29
22	First order sensitivity analysis of flexible multibody systems using absolute nodal coordinate formulation. <i>Multibody System Dynamics</i> , 2012, 27, 153-171.	2.7	26
23	Dual-chamber pneumatically interconnected suspension: Modeling and theoretical analysis. <i>Mechanical Systems and Signal Processing</i> , 2021, 147, 107125.	8.0	26
24	Non-stationary Random Vibration Analysis of Vehicle with Fractional Damping. , 2008, , .		21
25	State estimation in roll dynamics for commercial vehicles. <i>Vehicle System Dynamics</i> , 2017, 55, 313-337.	3.7	21
26	Uncertain analysis of vehicle handling using interval method. <i>International Journal of Vehicle Design</i> , 2011, 56, 81.	0.3	20
27	Robust Design of a Pneumatic Brake System in Commercial Vehicles. <i>SAE International Journal of Commercial Vehicles</i> , 2009, 2, 17-28.	0.4	19
28	Interval analysis method based on Legendre polynomial approximation for uncertain multibody systems. <i>Advances in Engineering Software</i> , 2018, 121, 223-234.	3.8	19
29	Kinematics & compliance analysis of double wishbone air suspension with frictions and joint clearances. <i>Mechanism and Machine Theory</i> , 2021, 156, 104127.	4.5	19
30	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. <i>Engineering Optimization</i> , 2015, 47, 1264-1288.	2.6	18
31	Velocity and normal tyre force estimation for heavy trucks based on vehicle dynamic simulation considering the road slope angle. <i>Vehicle System Dynamics</i> , 2016, 54, 137-167.	3.7	18
32	Dynamic computation of flexible multibody system with uncertain material properties. <i>Nonlinear Dynamics</i> , 2016, 85, 1231-1254.	5.2	17
33	Simulation of planar mechanisms with revolute clearance joints using the multipatch based isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 343, 453-489.	6.6	17
34	A fuzzy control strategy and optimization for four wheel steering system. , 2007, , .		16
35	Multiple stiffness topology optimizations of continuum structures. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 30, 203-214.	3.0	15
36	The concept design and dynamics analysis of a novel vehicle suspension mechanism with invariable orientation parameters. <i>Vehicle System Dynamics</i> , 2010, 48, 1495-1510.	3.7	15

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37	Fuzzy adaptive sliding mode controller for an air spring active suspension. International Journal of Automotive Technology, 2012, 13, 1057-1065.	1.4	15
38	Time response of structure with interval and random parameters using a new hybrid uncertain analysis method. Applied Mathematical Modelling, 2018, 64, 426-452.	4.2	15
39	Enhanced Fuzzy Sliding Mode Controller for Automated Clutch of AMT Vehicle. , 2006, , .		14
40	A crossing sensitivity filter for structural topology optimization with chamfering, rounding, and checkerboard-free patterns. Structural and Multidisciplinary Optimization, 2009, 37, 529-540.	3.5	11
41	Optimization and Analysis of Centrifugal Pump considering Fluid-Structure Interaction. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	8
42	A New Interval Inverse Analysis Method and Its Application in Vehicle Suspension Design. SAE International Journal of Materials and Manufacturing, 0, 9, 315-320.	0.3	8
43	Modeling and simulation of revolute clearance joint with friction using the NURBS-based isogeometric analysis. Nonlinear Dynamics, 2019, 95, 195-215.	5.2	8
44	TWO-LINK FLEXIBLE MANIPULATOR MODELLING AND TIP TRAJECTORY TRACKING BASED ON THE ABSOLUTE NODAL COORDINATE METHOD. International Journal of Robotics and Automation, 2009, 24, .	0.1	7
45	A hybrid topology optimization algorithm for structural design. Engineering Optimization, 2005, 37, 849-866.	2.6	6
46	Modeling and Co-simulation of Hydraulic Power Steering System. , 2011, , .		6
47	The Dynamic Analysis of Multibody Systems with Uncertain Parameters Using Interval Method. Applied Mechanics and Materials, 2012, 152-154, 1555-1561.	0.2	6
48	Suspension Kinematic/Compliance Uncertain Optimization Using a Chebyshev Polynomial Approach. SAE International Journal of Materials and Manufacturing, 0, 8, 257-262.	0.3	5
49	Kinematic analysis of a PPPR spatial serial mechanism with geometric errors. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 225-240.	2.1	5
50	Robust Optimal Design for Enhancing Vehicle Handling Performance. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 1, 536-544.	0.4	4
51	Optimization of Suspension Elastomeric Bushing Compliance Under Constraints of Handling, Ride and Durability. SAE International Journal of Materials and Manufacturing, 2010, 3, 468-483.	0.3	4
52	A Polynomial Chaos- Based Likelihood Approach for Parameter Estimation of Load Sensing Proportional Valve. , 2013, , .		4
53	Integrated chassis control using ANFIS. , 2008, , .		3
54	Multi-domain Modeling and Simulation of Clutch Actuation System Based on Modelica. SAE International Journal of Engines, 2009, 2, 1125-1131.	0.4	3

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55	Special Analytical Target Cascading for Handling Performance and Ride Quality Based on Conceptual Suspension Model and Multi-body Model. , 0, , .		3
56	Object oriented modeling and simulation of a pneumatic brake system with ABS. , 2009, , .		3
57	Multidisciplinary Co-Simulation of All-Terrain Crane With the Hydro-Pneumatic Suspension and Multi-Bridges Steering System. , 2010, , .		3
58	Robust Design for Vehicle Ride Comfort and Handling with Multi-Objective Evolutionary Algorithm. , 2013, , .		3
59	Robust Design of Load Sensing Proportional Valve by Orthogonal Experiment Analysis with Constrained Multi-objective Genetic Algorithm. , 2013, , .		3
60	Ride Optimization for a Heavy Commercial Vehicle. SAE International Journal of Commercial Vehicles, 0, 7, 150-156.	0.4	3
61	The Interval Uncertain Optimization Strategy Based on Chebyshev Meta-model. Springer Proceedings in Mathematics and Statistics, 2015, , 203-216.	0.2	3
62	Multi-objective optimisation of parallel hybrid electric vehicles based on fuzzy logic control. International Journal of Vehicle Autonomous Systems, 2008, 6, 236.	0.2	2
63	Synthesis and Analysis of the Double-Axle Steering Mechanism Considering Dynamic Loads. , 0, , .		2
64	A Fuzzy Synthesis Control Strategy for Active Four-Wheel Steering Based on Multi-Body Models. , 2008, , .		2
65	Modeling and Optimization of Vehicle Acceleration and Fuel Economy Performance with Uncertainty Based on Modelica. , 0, , .		2
66	Multi-domain modeling and simulation of clutch actuation system. , 2009, , .		2
67	Multi-domain Modeling and Simulation of Hydraulic Power Steering System Based on Modelica. , 0, , .		2
68	Interval Analysis Method of a Powertrain Mounting System with Uncertain Parameters. , 2010, , .		2
69	Optimization of Braking Force Distribution for Three-Axle Truck. , 0, , .		2
70	Numerical Solution of Stochastic Differential Equations with Application to Vehicle Handling. , 0, , .		1
71	Study on the Integrated Modeling of the Entire Rider-Vehicle-Road System. Key Engineering Materials, 0, 439-440, 1328-1336.	0.4	1
72	3D road surface digital modeling in time domain for virtual proving ground of vehicles. , 2010, , .		1

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73	Multi-domain Modeling and Simulation of AMT Based on Modelica. , 0, , .		1
74	A Fuzzy Sliding Mode Controller for an Air Spring Active Suspension. Applied Mechanics and Materials, 2011, 66-68, 350-355.	0.2	1
75	Monte Carlo Simulation of Flexible Multibody System with Uncertainties. Applied Mechanics and Materials, 0, 55-57, 1382-1385.	0.2	1
76	Robust Design Optimization of an Shock Absorber for Enhancing Ride Performance. , 0, , .		1
77	Multi-domain Modeling and Simulation of Vehicle Thermal System Based on Modelica. , 0, , .		1
78	Recursive parameter estimation for load sensing proportional valve based on polynomial chaos expansion. Engineering Computations, 2015, 32, 1343-1371.	1.4	1
79	A Fuzzy Synthesis Control Scheme and Optimization for Vehicle Dynamic Stability System. , 2007, , .		0
80	Fractional-order PI<sup>λ</sup>D<sup>μ</sup> control and optimization for vehicle active steering. , 2008, , .		0
81	Modeling and Simulation of Hydraulic System with Fuzzy Uncertain Parameters. , 0, , .		0
82	Notice of Retraction: Modeling and simulation of shock absorber with fuzzy uncertain parameters. , 2010, , .		0
83	Integrated control of semi-active suspension and vehicle dynamics control system. , 2010, , .		0
84	The efficient numerical simulation of stochastic road excitation to vehicles in time domain. , 2010, , .		0
85	Self-Adaptation of Natural-Coordinate System. Applied Mechanics and Materials, 0, 367, 286-291.	0.2	0
86	Recursive Estimation of Vehicle Inertial Parameters Using Polynomial Chaos Theory via Vehicle Handling Model. , 2015, , .		0
87	Ride Analysis under a Random Road Model with Interval Parameters. , 2017, , .		0
88	Flexible Multibody Dynamics of Sewing Machine with Multi-Clearance Joints. , 2017, , .		0
89	A New Reduction Method on Constant Constraints With Natural Coordinates. , 2010, , .		0