

Jinglai Wu

List of Publications by Year in descending order

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44
papers

1,730
citations

331670

21
h-index

276875

41
g-index

44
all docs

44
docs citations

44
times ranked

968
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	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
3	A new uncertain analysis method and its application in vehicle dynamics. Mechanical Systems and Signal Processing, 2015, 50-51, 659-675.	8.0	114
4	Level-set topology optimization for mechanical metamaterials under hybrid uncertainties. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 414-441.	6.6	91
5	Efficiency comparison of electric vehicles powertrains with dual motor and single motor input. Mechanism and Machine Theory, 2018, 128, 569-585.	4.5	89
6	A new interval uncertain optimization method for structures using Chebyshev surrogate models. Computers and Structures, 2015, 146, 185-196.	4.4	80
7	An interval uncertain optimization method for vehicle suspensions using Chebyshev metamodels. Applied Mathematical Modelling, 2014, 38, 3706-3723.	4.2	72
8	An investigation of hybrid energy storage system in multi-speed electric vehicle. Energy, 2017, 140, 291-306.	8.8	70
9	Modelling and control of a novel two-speed transmission for electric vehicles. Mechanism and Machine Theory, 2018, 127, 13-32.	4.5	59
10	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
11	Incremental modeling of a new high-order polynomial surrogate model. Applied Mathematical Modelling, 2016, 40, 4681-4699.	4.2	54
12	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
13	Power-on shifting in dual input clutchless power-shifting transmission for electric vehicles. Mechanism and Machine Theory, 2018, 121, 487-501.	4.5	50
14	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
15	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
16	Non-probabilistic reliability-based topology optimization with multidimensional parallelepiped convex model. Structural and Multidisciplinary Optimization, 2018, 57, 2205-2221.	3.5	42
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	A new hybrid uncertainty optimization method for structures using orthogonal series expansion. Applied Mathematical Modelling, 2017, 45, 474-490.	4.2	30
20	A novel shift control concept for multi-speed electric vehicles. Mechanical Systems and Signal Processing, 2018, 112, 171-193.	8.0	24
21	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
22	Uncertain analysis of vehicle handling using interval method. International Journal of Vehicle Design, 2011, 56, 81.	0.3	20
23	Robust Design of a Pneumatic Brake System in Commercial Vehicles. SAE International Journal of Commercial Vehicles, 2009, 2, 17-28.	0.4	19
24	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. Engineering Optimization, 2015, 47, 1264-1288.	2.6	18
25	Target torque estimation for gearshift in dual clutch transmission with uncertain parameters. Applied Mathematical Modelling, 2017, 51, 1-20.	4.2	18
26	Level-set topology optimization for robust design of structures under hybrid uncertainties. International Journal for Numerical Methods in Engineering, 2019, 117, 523-542.	2.8	18
27	Dynamic computation of flexible multibody system with uncertain material properties. Nonlinear Dynamics, 2016, 85, 1231-1254.	5.2	17
28	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
29	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
30	Driving mode shift control for planetary gear based dual motor powertrain in electric vehicles. Mechanism and Machine Theory, 2021, 158, 104217.	4.5	16
31	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
32	A new sequential sampling method for constructing the high-order polynomial surrogate models. Engineering Computations, 2018, 35, 529-564.	1.4	14
33	Dynamic computation for rigid-flexible multibody systems with hybrid uncertainty of randomness and interval. Multibody System Dynamics, 2019, 47, 43-64.	2.7	14
34	Power on gear shift control strategy design for a parallel hydraulic hybrid vehicle. Mechanical Systems and Signal Processing, 2021, 159, 107798.	8.0	13
35	A new sequential space-filling sampling strategy for elementary effects-based screening method. Applied Mathematical Modelling, 2020, 83, 419-437.	4.2	11
36	Design Optimization of Centrifugal Pump Using Radial Basis Function Metamodels. Advances in Mechanical Engineering, 2014, 6, 457542.	1.6	10

#	ARTICLE	IF	CITATIONS
37	The dynamic and economic performance study of a new Simpson planetary gearset based dual motor powertrain for electric vehicles. Mechanism and Machine Theory, 2022, 167, 104579.	4.5	10
38	Dynamics modeling and shift control of a novel spring-based synchronizer for electric vehicles. Mechanism and Machine Theory, 2022, 168, 104586.	4.5	10
39	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
40	Suspension Kinematic/Compliance Uncertain Optimization Using a Chebyshev Polynomial Approach. SAE International Journal of Materials and Manufacturing, 0, 8, 257-262.	0.3	5
41	Robust Design Optimization of Electrical Machines Considering Hybrid Random and Interval Uncertainties. IEEE Transactions on Energy Conversion, 2020, 35, 1815-1824.	5.2	5
42	A Polynomial Chaos-Based Method for Recursive Maximum Likelihood Parameter Estimation of Load Sensing Proportional Valve. SAE International Journal of Commercial Vehicles, 2014, 7, 124-131.	0.4	4
43	Design of a new type yokeless and segmented armature axial flux machine. International Journal of Applied Electromagnetics and Mechanics, 2020, 62, 823-834.	0.6	3
44	Modeling, Experimentation and Sensitivity Analysis of a Pneumatic Brake System in Commercial Vehicles. SAE International Journal of Commercial Vehicles, 2014, 7, 37-44.	0.4	2