

# Jinglai Wu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4753499/publications.pdf>

Version: 2024-02-01

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	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.	4.5	10
2	Dynamics modeling and shift control of a novel spring-based synchronizer for electric vehicles. <i>Mechanism and Machine Theory</i> , 2022, 168, 104586.	4.5	10
3	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.	8.0	16
4	Driving mode shift control for planetary gear based dual motor powertrain in electric vehicles. <i>Mechanism and Machine Theory</i> , 2021, 158, 104217.	4.5	16
5	Power on gear shift control strategy design for a parallel hydraulic hybrid vehicle. <i>Mechanical Systems and Signal Processing</i> , 2021, 159, 107798.	8.0	13
6	Design of a new type yokeless and segmented armature axial flux machine. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2020, 62, 823-834.	0.6	3
7	Robust Design Optimization of Electrical Machines Considering Hybrid Random and Interval Uncertainties. <i>IEEE Transactions on Energy Conversion</i> , 2020, 35, 1815-1824.	5.2	5
8	A new sequential space-filling sampling strategy for elementary effects-based screening method. <i>Applied Mathematical Modelling</i> , 2020, 83, 419-437.	4.2	11
9	A robust online energy management strategy for fuel cell/battery hybrid electric vehicles. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14093-14107.	7.1	51
10	Energy management and shifting stability control for a novel dual input clutchless transmission system. <i>Mechanism and Machine Theory</i> , 2019, 135, 298-321.	4.5	16
11	Dynamic computation for rigid-flexible multibody systems with hybrid uncertainty of randomness and interval. <i>Multibody System Dynamics</i> , 2019, 47, 43-64.	2.7	14
12	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.	4.5	42
13	Level-set topology optimization for robust design of structures under hybrid uncertainties. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 523-542.	2.8	18
14	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.	5.2	43
15	Development of continuously variable transmission and multi-speed dual-clutch transmission for pure electric vehicle. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401875822.	1.6	42
16	A robust energy management strategy for EVs with dual input power-split transmission. <i>Mechanical Systems and Signal Processing</i> , 2018, 111, 442-455.	8.0	21
17	Non-probabilistic reliability-based topology optimization with multidimensional parallelepiped convex model. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 2205-2221.	3.5	42
18	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.	8.0	56

#	ARTICLE	IF	CITATIONS
19	Power-on shifting in dual input clutchless power-shifting transmission for electric vehicles. Mechanism and Machine Theory, 2018, 121, 487-501.	4.5	50
20	Modelling and control of a novel two-speed transmission for electric vehicles. Mechanism and Machine Theory, 2018, 127, 13-32.	4.5	59
21	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
22	Efficiency comparison of electric vehicles powertrains with dual motor and single motor input. Mechanism and Machine Theory, 2018, 128, 569-585.	4.5	89
23	A novel shift control concept for multi-speed electric vehicles. Mechanical Systems and Signal Processing, 2018, 112, 171-193.	8.0	24
24	A new sequential sampling method for constructing the high-order polynomial surrogate models. Engineering Computations, 2018, 35, 529-564.	1.4	14
25	A new hybrid uncertainty optimization method for structures using orthogonal series expansion. Applied Mathematical Modelling, 2017, 45, 474-490.	4.2	30
26	Level-set topology optimization for mechanical metamaterials under hybrid uncertainties. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 414-441.	6.6	91
27	An investigation of hybrid energy storage system in multi-speed electric vehicle. Energy, 2017, 140, 291-306.	8.8	70
28	Target torque estimation for gearshift in dual clutch transmission with uncertain parameters. Applied Mathematical Modelling, 2017, 51, 1-20.	4.2	18
29	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
30	Incremental modeling of a new high-order polynomial surrogate model. Applied Mathematical Modelling, 2016, 40, 4681-4699.	4.2	54
31	Dynamic computation of flexible multibody system with uncertain material properties. Nonlinear Dynamics, 2016, 85, 1231-1254.	5.2	17
32	A new sampling scheme for developing metamodels with the zeros of Chebyshev polynomials. Engineering Optimization, 2015, 47, 1264-1288.	2.6	18
33	A new interval uncertain optimization method for structures using Chebyshev surrogate models. Computers and Structures, 2015, 146, 185-196.	4.4	80
34	A new uncertain analysis method and its application in vehicle dynamics. Mechanical Systems and Signal Processing, 2015, 50-51, 659-675.	8.0	114
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	An interval uncertain optimization method for vehicle suspensions using Chebyshev metamodels. Applied Mathematical Modelling, 2014, 38, 3706-3723.	4.2	72
38	Design Optimization of Centrifugal Pump Using Radial Basis Function Metamodels. Advances in Mechanical Engineering, 2014, 6, 4575-42.	1.6	10
39	A Chebyshev interval method for nonlinear dynamic systems under uncertainty. Applied Mathematical Modelling, 2013, 37, 4578-4591.	4.2	214
40	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
41	Uncertain analysis of vehicle handling using interval method. International Journal of Vehicle Design, 2011, 56, 81.	0.3	20
42	Robust Design of a Pneumatic Brake System in Commercial Vehicles. SAE International Journal of Commercial Vehicles, 2009, 2, 17-28.	0.4	19
43	Suspension Kinematic/Compliance Uncertain Optimization Using a Chebyshev Polynomial Approach. SAE International Journal of Materials and Manufacturing, 0, 8, 257-262.	0.3	5
44	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