Wenjie Ge

List of Publications by Year
in descending order

38 papers	417 citations	759233 12 h-index	839539 18 g-index
42 all docs	42 docs citations	42 times ranked	326 citing authors

#	Article	IF	Citations
1	Design and Evaluation of a Prosthetic Knee Joint Using the Geared Five-Bar Mechanism. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 1031-1038.	4.9	37
2	Topology optimization of compliant adaptive wing leading edge with composite materials. Chinese Journal of Aeronautics, 2014, 27, 1488-1494.	5.3	34
3	Jumping Locomotion Strategies: From Animals to Bioinspired Robots. Applied Sciences (Switzerland), 2020, 10, 8607.	2.5	26
4	Design of compliant mechanism-based variable camber morphing wing with nonlinear large deformation. International Journal of Advanced Robotic Systems, 2019, 16, 172988141988674.	2.1	23
5	Topology optimization method with direct coupled finite elementâ€“element-free Galerkin method. Advances in Engineering Software, 2018, 115, 217-229.	3.8	20
6	Review of Recent Progress in Robotic Knee Prosthesis Related Techniques: Structure, Actuation and Control. Journal of Bionic Engineering, 2021, 18, 764-785.	5.0	19
7	Topology optimization of hyperelastic structure based on a directly coupled finite element and element-free Galerkin method. Advances in Engineering Software, 2018, 123, 25-37.	3.8	18
8	Solving the Kinematics of the Planar Mechanism Using Data Structures of Assur Groups. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	15
9	Design and optimization of a powered ankle-foot prosthesis using a geared five-bar spring mechanism. International Journal of Advanced Robotic Systems, 2017, 14, 172988141770454.	2.1	15
10	Optimal Design of a Nonlinear Series Elastic Actuator for the Prosthetic Knee Joint Based on the Conjugate Cylindrical Cam. IEEE Access, 2019, 7, 140846-140859.	4.2	15
11	Modelling jumping in Locusta migratoria and the influence of substrate roughness. Entomologia Generalis, 2019, 38, 317-332.	3.1	15
12	Design and experiment of concentrated flexibility-based variable camber morphing wing. Chinese Journal of Aeronautics, 2022, 35, 455-469.	5.3	14
13	Design and Speed-Adaptive Control of a Powered Geared Five-Bar Prosthetic Knee Using BP Neural Network Gait Recognition. Sensors, 2019, 19, 4662.	3.8	12
14	Optimization of Combining Fiber Orientation and Topology for Constant-Stiffness Composite Laminated Plates. Journal of Optimization Theory and Applications, 2019, 181, 653-670.	1.5	12
15	Design, Optimization and Energetic Evaluation of an Efficient Fully Powered Ankle-Foot Prosthesis With a Series Elastic Actuator. IEEE Access, 2020, 8, 61491-61503.	4.2	12
16	Topology design and analysis of compliant mechanisms with composite laminated plates. Journal of Mechanical Science and Technology, 2019, 33, 613-620.	1.5	11
17	Effect of Substrates' Compliance on the Jumping Mechanism of Locusta migratoria. Frontiers in Bioengineering and Biotechnology, 2020, 8, 661.	4.1	11
18	Design and Experimental Research of Knee Joint Prosthesis Based on Gait Acquisition Technology. Biomimetics, 2021, 6, 28.	3.3	11

#	Article	IF	Citations
19	Research on one Bio-inspired Jumping Locomotion Robot for Search and Rescue. International Journal of Advanced Robotic Systems, 2014, 11, 168.	2.1	10
20	Topology optimization of compliant mechanisms with curvilinear fiber path laminated composites. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3101-3110.	2.1	8
21	Simultaneous optimization of fiber orientations and topology shape for composites compliant leading edge. Journal of Reinforced Plastics and Composites, 2019, 38, 706-716.	3.1	8
22	Impact of Different Developmental Instars on Locusta migratoria Jumping Performance. Applied Bionics and Biomechanics, 2020, 2020, 1-11.	1.1	8
23	Optimal fiber orientation and topology design for compliant mechanisms with fiber-reinforced composites. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2302-2312.	2.1	7
24	Landing Impact Analysis of a Bioinspired Intermittent Hopping Robot with Consideration of Friction. Mathematical Problems in Engineering, 2015, 2015, 1-12.	1.1	6
25	The effects of variable mechanical parameters on peak power and energy consumption of ankle-foot prostheses at different speeds. Advanced Robotics, 2018, 32, 1229-1240.	1.8	6
26	Integrated design of topology and material for composite morphing trailing edge based compliant mechanism. Chinese Journal of Aeronautics, 2021, 34, 331-340.	5.3	6
27	Design and Dynamics Analysis of a Bio-Inspired Intermittent Hopping Robot for Planetary Surface Exploration. International Journal of Advanced Robotic Systems, 2012, 9, 109.	2.1	5
28	Optimization of actuating torques in multi-bar prosthetic joints with springs. Engineering Optimization, 2017, 49, 1183-1196.	2.6	5
29	Optimization and Dynamics of Six-bar Mechanism Bionic Knee. , 2019, , .		4
30	Optimization and Experiment of a Novel Compliant Focusing Mechanism for Space Remote Sensor. Sensors, 2020, 20, 6826.	3.8	4
31	Path and function synthesis of multi-bar mechanisms using beetle antennae search algorithm. Filomat, 2020, 34, 5215-5233.	0.5	4
32	Design of Morphing Wing Leading Edge with Compliant Mechanism. Lecture Notes in Computer Science, 2019, , 382-392.	1.3	3
33	Multibody-Dynamic Modeling and Stability Analysis for a Bird-scale Flapping-wing Aerial Vehicle. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	3.4	3
34	Optimal fiber orientations and topology of compliant mechanisms using lamination parameters. , 2015, , .		2
35	Mechanical design and energy storage efficiency research of a variable stiffness elastic actuator. International Journal of Advanced Robotic Systems, 2020, 17, 172988142093095.	2.1	2
36	Topology Optimization of Multi-Materials Compliant Mechanisms. Applied Sciences (Switzerland), 2021, 11, 3828.	2.5	2

#	Article	IF	Citations
37	Optimal Control of Hopping Robot Based on Genetic Algorithm during Flight Phase. , 2017, , .		1
38	Kinematic analysis and optimization of a kangaroo geared five-bar knee joint mechanism. , 2017, , .		1