

# Wuxiang Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/546229/publications.pdf>

Version: 2024-02-01

28  
papers

524  
citations

933447

10  
h-index

713466

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of current design and analysis of potential theories for automated fibre placement mechanisms. Chinese Journal of Aeronautics, 2022, 35, 1-13.	5.3	9
2	Anti-Disturbance Sliding Mode Control of a Novel Variable Stiffness Actuator for the Rehabilitation of Neurologically Disabled Patients. Frontiers in Robotics and AI, 2022, 9, 864684.	3.2	4
3	Gait-Symmetry-Based Human-in-the-Loop Optimization for Unilateral Transtibial Amputees With Robotic Prostheses. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 744-753.	3.2	2
4	Joint-Angle Adaptive Coordination Control of a Serial-Parallel Lower Limb Rehabilitation Exoskeleton. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 775-784.	3.2	3
5	Configuration synthesis of variable stiffness mechanisms based on guide-bar mechanisms with length-adjustable links. Mechanism and Machine Theory, 2021, 156, 104153.	4.5	22
6	Design and optimisation of load-adaptive actuator with variable stiffness for compact ankle exoskeleton. Mechanism and Machine Theory, 2021, 161, 104323.	4.5	42
7	Human-centred adaptive control of lower limb rehabilitation robot based on human-robot interaction dynamic model. Mechanism and Machine Theory, 2021, 162, 104340.	4.5	39
8	Dynamic Modeling and Compliant Control for a Lower Extremity Exoskeleton Robot Based on BP Neural Network. , 2021, , .		0
9	Modelling and layout design for an automated fibre placement mechanism. Mechanism and Machine Theory, 2020, 144, 103651.	4.5	3
10	Assist-as-needed attitude control in three-dimensional space for robotic rehabilitation. Mechanism and Machine Theory, 2020, 154, 104044.	4.5	17
11	Design and analysis of a novel mechanism with a two-DOF remote centre of motion. Mechanism and Machine Theory, 2020, 153, 103990.	4.5	13
12	Parametric generation of three-dimensional gait for robot-assisted rehabilitation. Biology Open, 2020, 9, .	1.2	9
13	Optimization of the Rotational Asymmetric Parallel Mechanism for Hip Rehabilitation With Force Transmission Factors. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	19
14	Recent development on innovation design of reconfigurable mechanisms in China. Frontiers of Mechanical Engineering, 2019, 14, 15-20.	4.3	9
15	A Review on Lower Limb Rehabilitation Exoskeleton Robots. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	3.7	239
16	Force field control for the three-dimensional gait adaptation using a lower limb rehabilitation robot. Mechanisms and Machine Science, 2019, , 1919-1928.	0.5	6
17	Multi-axis additive manufacturing process for continuous fibre reinforced composite parts. Procedia CIRP, 2019, 85, 114-120.	1.9	16
18	Design and Optimization of Single-degree-of-freedom Six- bar Mechanisms for Knee Joint of Lower Extremity Exoskeleton Robot. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
19	Novel Motor-free Passive Walk-assisting Knee Exoskeleton. , 2019, , .		0
20	Design of hip joint assistant asymmetric parallel mechanism and optimization of singularity-free workspace. Mechanism and Machine Theory, 2018, 122, 389-403.	4.5	26
21	Modular design method for filament winding process equipment based on GGA and NSGA-II. International Journal of Advanced Manufacturing Technology, 2018, 94, 2057-2076.	3.0	8
22	Design of Small-Scale Filament Winding & Placement Machine. , 2018, , .		0
23	Design and Analysis of a Metamorphic Quadruped Robot. , 2018, , .		1
24	Design and analysis of a metamorphic mechanism for automated fibre placement. Mechanism and Machine Theory, 2018, 130, 463-476.	4.5	7
25	A Planar Mechanism with Variable Topology for Automated Fiber Placement. , 2018, , .		3
26	Design of the control system platform for modular lower extremity rehabilitation exoskeleton. , 2018, , .		1
27	Design and Kinematic Analysis of a Novel Metamorphic Mechanism for Lower Limb Rehabilitation. Mechanisms and Machine Science, 2016, , 545-558.	0.5	8
28	An optimization method for metamorphic mechanisms based on multidisciplinary design optimization. Chinese Journal of Aeronautics, 2014, 27, 1612-1618.	5.3	11