

Wuxiang Zhang

List of Publications by Year in descending order

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papers

524
citations

933447

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28
all docs

28
docs citations

28
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Lower Limb Rehabilitation Exoskeleton Robots. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	3.7	239
2	Design and optimisation of load-adaptive actuator with variable stiffness for compact ankle exoskeleton. Mechanism and Machine Theory, 2021, 161, 104323.	4.5	42
3	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
4	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
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	Optimization of the Rotational Asymmetric Parallel Mechanism for Hip Rehabilitation With Force Transmission Factors. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	19
7	Assist-as-needed attitude control in three-dimensional space for robotic rehabilitation. Mechanism and Machine Theory, 2020, 154, 104044.	4.5	17
8	Multi-axis additive manufacturing process for continuous fibre reinforced composite parts. Procedia CIRP, 2019, 85, 114-120.	1.9	16
9	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
10	An optimization method for metamorphic mechanisms based on multidisciplinary design optimization. Chinese Journal of Aeronautics, 2014, 27, 1612-1618.	5.3	11
11	Recent development on innovation design of reconfigurable mechanisms in China. Frontiers of Mechanical Engineering, 2019, 14, 15-20.	4.3	9
12	Parametric generation of three-dimensional gait for robot-assisted rehabilitation. Biology Open, 2020, 9, .	1.2	9
13	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
14	Design and Kinematic Analysis of a Novel Metamorphic Mechanism for Lower Limb Rehabilitation. Mechanisms and Machine Science, 2016, , 545-558.	0.5	8
15	Modular design method for filament winding process equipment based on CGA and NSGA-II. International Journal of Advanced Manufacturing Technology, 2018, 94, 2057-2076.	3.0	8
16	Design and analysis of a metamorphic mechanism for automated fibre placement. Mechanism and Machine Theory, 2018, 130, 463-476.	4.5	7
17	Design and Optimization of Single-degree-of-freedom Six- bar Mechanisms for Knee Joint of Lower Extremity Exoskeleton Robot. , 2019, , .		7
18	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

#	ARTICLE	IF	CITATIONS
19	Anti-Disturbance Sliding Mode Control of a Novel Variable Stiffness Actuator for the Rehabilitation of Neurologically Disabled Patients. <i>Frontiers in Robotics and AI</i> , 2022, 9, 864684.	3.2	4
20	A Planar Mechanism with Variable Topology for Automated Fiber Placement. , 2018, , .		3
21	Modelling and layout design for an automated fibre placement mechanism. <i>Mechanism and Machine Theory</i> , 2020, 144, 103651.	4.5	3
22	Joint-Angle Adaptive Coordination Control of a Serial-Parallel Lower Limb Rehabilitation Exoskeleton. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 775-784.	3.2	3
23	Gait-Symmetry-Based Human-in-the-Loop Optimization for Unilateral Transtibial Amputees With Robotic Prostheses. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 744-753.	3.2	2
24	Design and Analysis of a Metamorphic Quadruped Robot. , 2018, , .		1
25	Design of the control system platform for modular lower extremity rehabilitation exoskeleton. , 2018, , .		1
26	Design of Small-Scale Filament Winding & Placement Machine. , 2018, , .		0
27	Novel Motor-free Passive Walk-assisting Knee Exoskeleton. , 2019, , .		0
28	Dynamic Modeling and Compliant Control for a Lower Extremity Exoskeleton Robot Based on BP Neural Network. , 2021, , .		0