Bin Zi

List of Publications by Year in descending order

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58	1,261	20	34
papers	citations	h-index	g-index
58	58	58	915
all docs	docs citations	times ranked	citing authors

#	Article	lF	CITATIONS
1	A Review on Cable-driven Parallel Robots. Chinese Journal of Mechanical Engineering (English) Tj ETQq1 1 0.78431	.4 rgBT	/Overlock 10 T
2	The Design and Development of an Omni-Directional Mobile Robot Oriented to an Intelligent Manufacturing System. Sensors, 2017, 17, 2073.	3.8	93
3	Design and Development of a New Cable-Driven Parallel Robot for Waist Rehabilitation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1497-1507.	5.8	88
4	Dynamics and trajectory tracking control of cooperative multiple mobile cranes. Nonlinear Dynamics, 2016, 83, 89-108.	5.2	84
5	Lightâ€Driven Selfâ€Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. Angewandte Chemie - International Edition, 2021, 60, 20511-20517.	13.8	82
6	Design, stiffness analysis and experimental study of a cable-driven parallel 3D printer. Mechanism and Machine Theory, 2019, 132, 207-222.	4.5	64
7	Design, analysis and control of a winding hybrid-driven cable parallel manipulator. Robotics and Computer-Integrated Manufacturing, 2017, 48, 196-208.	9.9	60
8	Design of a New Piezoelectric Energy Harvester Based on Compound Two-Stage Force Amplification Frame. IEEE Sensors Journal, 2018, 18, 3989-4000.	4.7	53
9	New Graph Representation for Planetary Gear Trains. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	45
10	Kinematic Calibration of a Cable-Driven Parallel Robot for 3D Printing. Sensors, 2018, 18, 2898.	3.8	45
11	Analysis and control of the cable-supporting system including actuator dynamics. Control Engineering Practice, 2011, 19, 491-501.	5.5	44
12	State-of-the-art research in robotic hip exoskeletons: A general review. Journal of Orthopaedic Translation, 2020, 20, 4-13.	3.9	44
13	Development of an active and passive finger rehabilitation robot using pneumatic muscle and magnetorheological damper. Mechanism and Machine Theory, 2020, 147, 103762.	4. 5	38
14	Dynamic Simulation of Hybrid-Driven Planar Five-Bar Parallel Mechanism Based on SimMechanics and Tracking Control. International Journal of Advanced Robotic Systems, 2011, 8, 37.	2.1	37
15	Steady-State Heat-Flow Coupling Field of a High-Power Magnetorheological Fluid Clutch Utilizing Liquid Cooling. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	30
16	Design and Optimization of a Hybrid-Driven Waist Rehabilitation Robot. Sensors, 2016, 16, 2121.	3.8	28
17	Kinematics and error analysis of cooperative cable parallel manipulators for multiple mobile cranes. International Journal of Mechanics and Materials in Design, 2014, 10, 395-409.	3.0	25
18	External Force Self-Sensing Based on Cable-Tension Disturbance Observer for Surgical Robot End-Effector. IEEE Sensors Journal, 2019, 19, 5274-5284.	4.7	24

#	Article	IF	CITATIONS
19	Effects of unbalance on the nonlinear dynamics of rotors with transverse cracks. Nonlinear Dynamics, 2018, 91, 2755-2772.	5.2	23
20	Dynamic Trajectory Planning for a Three Degrees-of-Freedom Cable-Driven Parallel Robot Using Quintic B-Splines. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	22
21	Dynamics-based nonsingular interval model and luffing angular response field analysis of the DACS with narrowly bounded uncertainty. Nonlinear Dynamics, 2017, 90, 2599-2626.	5.2	21
22	New Structural Representation and Digital-Analysis Platform for Symmetrical Parallel Mechanisms. International Journal of Advanced Robotic Systems, 2013, 10, 243.	2.1	19
23	A Clamping Force Estimation Method Based on a Joint Torque Disturbance Observer Using PSO-BPNN for Cable-Driven Surgical Robot End-Effectors. Sensors, 2019, 19, 5291.	3.8	17
24	Three-dimensional static and dynamic stiffness analyses of the cable driven parallel robot with non-negligible cable mass and elasticity. Mechanics Based Design of Structures and Machines, 2018, 46, 455-482.	4.7	13
25	Design and Analysis of Cooperative Cable Parallel Manipulators for Multiple Mobile Cranes. International Journal of Advanced Robotic Systems, 2012, 9, 207.	2.1	12
26	Integrated Mechanism Design and Control for Completely Restrained Hybrid-Driven Based Cable Parallel Manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 643-661.	3.4	12
27	Non-smooth dynamical analysis and experimental validation of the cable-suspended parallel manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2456-2466.	2.1	11
28	Combined kinematic and static analysis of an articulated lower limb traction device for a rehabilitation robotic system. Science China Technological Sciences, 2021, 64, 1189-1202.	4.0	11
29	Algebraic Method-Based Point-to-Point Trajectory Planning of an Under-Constrained Cable-Suspended Parallel Robot with Variable Angle and Height Cable Mast. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	3.7	11
30	Development of Modular Cable-Driven Parallel Robotic Systems. IEEE Access, 2019, 7, 5541-5553.	4.2	10
31	Design and analysis of a novel cable-actuated palletizing robot. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774108.	2.1	9
32	Development and Control of an MR Brake-Based Passive Force Feedback Data Glove. IEEE Access, 2019, 7, 172477-172488.	4.2	9
33	Kinematic Uncertainty Analysis of a Cable-Driven Parallel Robot Based on an Error Transfer Model. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	9
34	Dynamic Modeling and Error Analysis of a Cable-Linkage Serial-Parallel Palletizing Robot. IEEE Access, 2021, 9, 2188-2200.	4.2	8
35	Collision free force closure workspace determination of reconfigurable planar cable driven parallel robot. , 2016, , .		7
36	Vibration Characteristics of Rotating Mistuned Bladed Disks considering the Coriolis Force, Spin Softening, and Stress Stiffening Effects. Shock and Vibration, 2019, 2019, 1-22.	0.6	5

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37	Cable Angle and Minimum Resultant Force Response Analysis of Lower Limb Traction Device for Rehabilitation Robot With Interval Parameters. Journal of Computing and Information Science in Engineering, 2021, 21, .	2.7	5
38	Typical configuration analysis of a modular reconfigurable cable-driven parallel robot. International Journal of Advanced Robotic Systems, 2019, 16, 172988141983475.	2.1	4
39	Design and Simulation of a Robotic Knee Exoskeleton with a Variable Stiffness Actuator for Gait Rehabilitation. , 2021, , .		4
40	Application of Deep Learning for Defect Detection of Paint Film., 2021,,.		3
41	Lightâ€Driven Selfâ€Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. Angewandte Chemie, 2021, 133, 20674-20680.	2.0	3
42	Iterative Learning Tracking Control of a Hybrid-Driven Based Three-Cable Parallel Manipulator. Advances in Mechanical Engineering, 2014, 6, 248385.	1.6	2
43	Mechanism Design and Kinematic Analysis of a Waist and Lower Limbs Cable-Driven Parallel Rehabilitation Robot., 2019,,.		2
44	Smooth Trajectory Planning for a Cable-Driven Waist Rehabilitation Robot Using Quintic NURBS. Lecture Notes in Computer Science, 2021, , 555-563.	1.3	2
45	Special Issue on Rehabilitation Robots, Devices, and Methodologies. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2020, 3, .	0.5	2
46	Path Planning for a Cable-Driven Parallel Waist Rehabilitation Robot Based on Discriminant Analysis Model. , 2021, , .		2
47	Design and analysis of a 2-DOF hybrid-driven planar parallel manipulator based on virtual prototype technology. , 2010, , .		1
48	Luffing angular response field prediction of the DACS with narrowly random payload parameters based on a modified hybrid random method. Archive of Applied Mechanics, 2018, 88, 1767-1789.	2.2	1
49	Kinematics Modeling and Analysis of a Novel Five-DoF Spraying Robot. , 2019, , .		1
50	Simulation and Analysis of Mechanical Characteristics of a 6-DOF Spray-painting Robot. , 2019, , .		1
51	On Control System of the Cable-Supporting Parallel Mechanism Including Actuator Dynamics. , 2009, ,		0
52	Trajectory control of the cable-based parallel mechanism based on dynamics. , 2009, , .		0
53	Design and analysis of completely restrained cable manipulators with 3 Degrees of Freedom. , 2010, , .		0
54	Research on a Virtual Simulation System for Master-slave Teaching of a Spraying Robot. , 2019, , .		0

#	Article	IF	CITATIONS
55	Design, Modeling and Analysis of a Novel Backdrivable Cable-driven Series Elastic Actuator. , 2019, , .		О
56	Control and Monitoring of a Double Cable Driven System., 2021,,.		O
57	Design and Modeling for Hybrid Driven Knee Orthosis with SMA actuator., 2021,,.		O
58	Design and Kinematic Analysis of a Rigid-flexible Coupling Driven Parallel Spraying Robot., 2021,,.		0