Zhufeng Shao

List of Publications by Year
in descending order

39	594	623734	642732
papers	citations	14	23
		h-index	g-index

39	39	39	374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic performance analysis of the X4 high-speed pick-and-place parallel robot. Robotics and Computer-Integrated Manufacturing, 2017, 46, 48-57.	9.9	62
2	Research on the inertia matching of the Stewart parallel manipulator. Robotics and Computer-Integrated Manufacturing, 2012, 28, 649-659.	9.9	43
3	Optimization and implementation of a high-speed 3-DOFs translational cable-driven parallel robot. Mechanism and Machine Theory, 2020, 145, 103693.	4.5	43
4	Dynamic modeling and wind vibration control of the feed support system in FAST. Nonlinear Dynamics, 2012, 67, 965-985.	5.2	42
5	Trajectory generation and tracking control of a multi-level hybrid support manipulator in FAST. Mechatronics, 2013, 23, 1113-1122.	3.3	36
6	Torsional Stiffness Improvement of a Soft Pneumatic Finger Using Embedded Skeleton. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	27
7	Improving the kinematic performance of a planar 3-RRR parallel manipulator through actuation mode conversion. Mechanism and Machine Theory, 2018, 130, 86-108.	4.5	25
8	Atlas based kinematic optimum design of the Stewart parallel manipulator. Chinese Journal of Mechanical Engineering (English Edition), 2015, 28, 20-28.	3.7	23
9	Optimal Design of a High-Speed Pick-and-Place Cable-Driven Parallel Robot. Mechanisms and Machine Science, 2018, , 340-352.	0.5	22
10	Optimal Design of a 3-DOF Cable-Driven Upper Arm Exoskeleton. Advances in Mechanical Engineering, 2014, 6, 157096.	1.6	18
11	Analysis and optimization of a novel planar 5R parallel mechanism with variable actuation modes. Robotics and Computer-Integrated Manufacturing, 2019, 56, 178-190.	9.9	18
12	Accuracy synthesis of a multi-level hybrid positioning mechanism for the feed support system in FAST. Robotics and Computer-Integrated Manufacturing, 2014, 30, 565-575.	9.9	17
13	Controller Design Based On Wavelet Neural Adaptive Proportional Plus Conventional Integral-Derivative For Bilateral Teleoperation Systems With Time-Varying Parameters. International Journal of Control, Automation and Systems, 2018, 16, 2405-2420.	2.7	17
14	Inertia Match of a 3-RRR Reconfigurable Planar Parallel Manipulator. Chinese Journal of Mechanical Engineering (English Edition), 2009, 22, 791.	3.7	17
15	Workspace Analysis and Optimal Design of a Translational Cable-Driven Parallel Robot With Passive Springs. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	15
16	A Fuzzy PID Approach for the Vibration Control of the FSPM. International Journal of Advanced Robotic Systems, 2013, 10, 59.	2.1	14
17	Adaptive Controller Design Based On Predicted Time-delay for Teleoperation Systems Using Lambert W function. International Journal of Control, Automation and Systems, 2019, 17, 1445-1453.	2.7	14
18	Driving force analysis for the secondary adjustable system in FAST. Robotica, 2011, 29, 903-915.	1.9	13

#	ARTICLE	IF	CITATIONS
19	Analytical modeling and optimization of a corrugated soft pneumatic finger considering the performance of pinch and power grasps. Extreme Mechanics Letters, 2021, 44, 101215.	4.1	12
20	Optimum Design of 3-3 Stewart Platform Considering Inertia Property. Advances in Mechanical Engineering, 2013, 5, 249121.	1.6	11
21	The Structure and Dimensional Design of a Reconfigurable PKM. International Journal of Advanced Robotic Systems, 2013, 10, 267.	2.1	11
22	Design and analysis of the cable-driven parallel robot for cleaning exterior wall of buildings. International Journal of Advanced Robotic Systems, 2021, 18, 172988142199031.	2.1	11
23	Research on Longitudinal Vibration Characteristic of the Six-Cable-Driven Parallel Manipulator in FAST. Advances in Mechanical Engineering, 2013, 5, 547416.	1.6	9
24	Dimensional optimization of the Stewart platform based on inertia decoupling characteristic. Robotica, 2016, 34, 1151-1167.	1.9	9
25	Kinematic analysis of the X4 translational–rotational parallel robot. International Journal of Advanced Robotic Systems, 2018, 15, 172988141880384.	2.1	9
26	Dynamics Verification Experiment of the Stewart Parallel Manipulator. International Journal of Advanced Robotic Systems, 2015, 12, 144.	2.1	8
27	Lambert W Function Controller Design for Teleoperation Systems. International Journal of Precision Engineering and Manufacturing, 2019, 20, 101-110.	2.2	8
28	Self-Excited Vibration Analysis for the Feed Support System in FAST. International Journal of Advanced Robotic Systems, 2014, 11, 63.	2.1	7
29	Self-calibration Method of Planar Flexible 3-RRR Parallel Manipulator. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2009, 45, 150.	0.5	7
30	Research on the Orientation Error of the Translational Cable-Driven Parallel Robots. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	6
31	An eikonal equation based path planning method using polygon decomposition and curve evolution. Defence Technology, 2020, 16, 1001-1018.	4.2	5
32	Study on Energy Consumption and Cable Force Optimization of Cable-Driven Parallel Mechanism in Automated Storage/Retrieval System. , 2015, , .		4
33	Analysis of flexible supported industrial robot on terminal accuracy. International Journal of Advanced Robotic Systems, 2018, 15, 172988141879302.	2.1	4
34	Design and Analysis of a Wire-Driven Parallel Mechanism for Low-Gravity Environment Simulation. Advances in Mechanical Engineering, 2014, 6, 810606.	1.6	3
35	Health Evaluation Method of CNC Machine Tools Based on Fuzzy Grey Clustering and Combined Weighting Method. , 2019, , .		2
36	Design and Optimization of the New Cable-Driven Ankle Rehabilitation Equipment. Lecture Notes in Computer Science, 2021, , 597-607.	1.3	1

#	Article	IF	Citations
37	Performance Research of Planar 5R Parallel Mechanism with Variable Drive Configurations. Lecture Notes in Computer Science, 2017, , 453-463.	1.3	1
38	Research on Stiffness Improvement of a Soft Pneumatic Finger Using Skeleton. , 2019, , .		0
39	Research on the Dynamic Trajectory of Cable-Suspended Parallel Robot Considering the Uniformity of Cable Tension. , 2019, , .		0