

# Hai-Qiang Zhang

## List of Publications by Year in descending order

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27  
papers

185  
citations

1307594

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h-index

1199594

12  
g-index

29  
all docs

29  
docs citations

29  
times ranked

143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the Kinematic Accuracy Reliability of a 3-DOF Parallel Robot Manipulator. International Journal of Advanced Robotic Systems, 2015, 12, 15.	2.1	31
2	Dynamic Performance Evaluation of a Redundantly Actuated and Over-constrained Parallel Manipulator. International Journal of Automation and Computing, 2019, 16, 274-285.	4.5	22
3	Forward Kinematics and Workspace Determination of a Novel Redundantly Actuated Parallel Manipulator. International Journal of Aerospace Engineering, 2019, 2019, 1-14.	0.9	13
4	Workspace Analysis of a Hybrid Kinematic Machine Tool with High Rotational Applications. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	11
5	Motion-force Transmissibility Characteristic Analysis of a Redundantly Actuated and Overconstrained Parallel Machine. International Journal of Automation and Computing, 2019, 16, 150-162.	4.5	11
6	Enumeration and optimum design of a class of translational parallel mechanisms with prismatic and parallelogram joints. Mechanism and Machine Theory, 2020, 150, 103846.	4.5	11
7	A Newton-Raphson and BP neural network Hybrid Algorithm for Forward Kinematics of Parallel Manipulator. , 2019, , .		8
8	Synthesis of 3-[P][S] Parallel Mechanism-Inspired Multimode Dexterous Hands With Parallel Finger Structure. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	8
9	Type Synthesis and Kinematics Performance Analysis of a Class of 3T2R Parallel Mechanisms with Large Output Rotational Angles. International Journal of Automation and Computing, 2019, 16, 775-785.	4.5	7
10	Adaptive Fuzzy Sliding Mode Control for a 3-DOF Parallel Manipulator with Parameters Uncertainties. Complexity, 2020, 2020, 1-16.	1.6	7
11	Non-singular terminal sliding mode control for redundantly actuated parallel mechanism. International Journal of Advanced Robotic Systems, 2020, 17, 172988142091954.	2.1	7
12	Stiffness Characteristics Analysis of a Novel 3- DOF Parallel Kinematic Machine Tool. International Journal of Engineering and Technology, 2018, 10, 346-354.	0.2	7
13	Design and Analysis of a Novel Hybrid Processing Robot Mechanism. International Journal of Automation and Computing, 2020, 17, 403-416.	4.5	6
14	Type Synthesis and Dynamics Performance Evaluation of a Class of 5-DOF Redundantly Actuated Parallel Mechanisms. International Journal of Automation and Computing, 2021, 18, 96-109.	4.5	6
15	Trajectory Tracking Control Study of a New Parallel Mechanism with Redundant Actuation. International Journal of Aerospace Engineering, 2020, 2020, 1-14.	0.9	5
16	The research of kinematic performances of 3-UPU-UPU parallel mechanism for automobile assembly line. , 2015, , .		4
17	Dynamic Modeling and Adaptive Robust Synchronous Control of Parallel Robotic Manipulator for Industrial Application. Complexity, 2020, 2020, 1-23.	1.6	4
18	Forward kinematics of parallel robot based on neural network Newton-Raphson iterative algorithm. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	Multi-objective optimization of a redundantly actuated parallel robot mechanism for special machining. Mechanical Sciences, 2022, 13, 123-136.	1.0	3
20	Simulation and analysis of a single actuated quadruped robot. Mechanical Sciences, 2022, 13, 137-146.	1.0	2
21	Kinematic Performance Analysis of a Novel Redundantly Actuated Parallel Mechanism. , 2019, , .		1
22	Kinematic Reliability Solution of 3-UPS-PU Parallel Mechanism Based on Monte Carlo Simulation. The Open Mechanical Engineering Journal, 2015, 9, 324-332.	0.3	1
23	Robust Design Optimization of a 4-UPS-S Parallel Manipulator for Orientation-Regulating Control System of Solar Gather Panels. Journal of Industrial Engineering, 2015, 2015, 1-10.	0.6	0
24	Force-Position Hybrid Control of a Novel Parallel Manipulator with Redundant Actuation*. , 2019, , .		0
25	Kinematics Dexterity Analysis and Optimization of 4-UPS-UPU Parallel Robot Manipulator. Lecture Notes in Computer Science, 2014, , 1-11.	1.3	0
26	The Dexterity Analysis of a Spatial Three-Degree of Freedom Parallel Manipulator with Constrained Branch. International Journal of Engineering and Technology, 2018, 10, 512-518.	0.2	0
27	KINEMATIC PERFORMANCE ANALYSIS OF A CABLE-DRIVEN REDUNDANT ACTUATED PARALLEL MANIPULATOR. International Journal of Robotics and Automation, 2019, 34, .	0.1	0