Yan-Jie Liu

List of Publications by Year
in descending order

52 papers	201 citations	1307366 7 h-index	1281743 11 g-index
52 all docs	52 docs citations	52 times ranked	221 citing authors

#	Article	IF	Citations
1	A Novel Tactile Sensor with Electromagnetic Induction and Its Application on Stick-Slip Interaction Detection. Sensors, 2016, 16, 430.	2.1	25
2	Design of a control system for a macro-micro dual-drive high acceleration high precision positioning stage for IC packaging. Science in China Series D: Earth Sciences, 2009, 52, 1858-1865.	0.9	24
3	A Real-time Pre-impact Fall Detection and Protection System. , 2018, , .		13
4	Method for Structural Optimization Design of Wafer Handling Robot Arms. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 1.	0.7	13
5	Magnetic resonance imaging and transrectal ultrasound prostate image segmentation based on improved level set for robotic prostate biopsy navigation. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, 1-14.	1.2	9
6	An Enhanced Hybrid Visual–Inertial Odometry System for Indoor Mobile Robot. Sensors, 2022, 22, 2930.	2.1	9
7	Research, design and experiment of end effector for wafer transfer robot. Industrial Robot, 2012, 39, 79-91.	1.2	8
8	A Method of Energy-Optimal Trajectory Planning for Palletizing Robot. Mathematical Problems in Engineering, 2017, 2017, 1-10.	0.6	8
9	Development of a transperineal prostate biopsy robot guided by MRI–TRUS image. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2266.	1.2	7
10	Accurate and steady control on trajectory tracking for the wafer transfer robot. Industrial Robot, 2010, 37, 552-561.	1.2	6
11	Design and simulation of a macro-micro dual-drive high acceleration precision XY-stage for IC bonding technology. , 0, , .		5
12	Time-Optimal Trajectory Generation of a Fast-Motion Planar Parallel Manipulator. , 2006, , .		5
13	Factors governing heat affected zone during wire bonding. Transactions of Nonferrous Metals Society of China, 2009, 19, s490-s494.	1.7	5
14	Design Research of a Novel High Speed Nanometer Positioning System on Macro/Micro Driven for MEMS. , 2006, , .		4
15	Optimal Kinematic Design of a Planar Parallel Manipulator with High Speed and High Precision. , 2006, , .		4
16	Vibration suppression for wafer transfer robot during trajectory tracking. , 2010, , .		4
17	Plantbot: A New ROS-based Robot Platform for Fast Building and Developing. , 2018, , .		4
18	N-PD cross-coupling synchronization control based on adjacent coupling error analysis. Journal of Central South University, 2018, 25, 1154-1164.	1.2	4

#	Article	IF	Citations
19	A Novel High Speed/High Precision Displacement Measurement Method Using Double Grating Scales for a Macro/Micro Driven System: Principle Design and Experimental Verification. , 2006, , .		3
20	Investigation of an Ironless Permanent Magnet Linear Synchronous Motor with Cooling System. Applied Sciences (Switzerland), 2016, 6, 422.	1.3	3
21	Asymmetric Velocity Profile with Fixed Motion Time for Motion Control. Advanced Science Letters, 2012, 6, 593-598.	0.2	3
22	An Approach for Multi-Objective Obstacle Avoidance Using Dynamic Occupancy Grid Map. , 2020, , .		3
23	Acceleration feedback control of a harmonic drive parallel robot. , 0, , .		2
24	A novel 2-DOF planar parallel robot with high accelerate / high precision. , 2007, , .		2
25	Gold wire stress analysis of wire feed system in automatic wire bonder. , 2009, , .		2
26	Stable and accurate trajectory control technology for the wafer transfer robot. , 2010, , .		2
27	Frame vibration suppression for wafer transfer system. , 2011, , .		2
28	Stick-Slip Interactions of the Soft-Solid Contact: An Integrated LuGre/Beam Network Model Approach. , 2015, , .		2
29	Burner-electrode position control of calcium carbide furnace based on BP-PID controller. , 2017, , .		2
30	A Fast Fusion Method for Multi-exposure Image in YUV Color Space. , 2018, , .		2
31	Multiobjective Trajectory Optimization and Adaptive Backstepping Control for Rubber Unstacking Robot Based on RFWNN Method. Mathematical Problems in Engineering, 2018, 2018, 1-19.	0.6	2
32	An Approach for Generating High Velocity and High Acceleration Trajectories of Industrial Robots. , 0, , .		1
33	Fast-motion trajectory generation for a new direct-drive planar parallel manipulator. , 0, , .		1
34	Mechanism and control of linear positioning for IC wire bonders. , 0, , .		1
35	Research on a New Composite Ultrasonic Energy Transmission System with the Serial Structure. , 2007, , .		1
36	A novel velocity sensor based on electromagnetic induction. , 2011, , .		1

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37	Resolution and precision measurement of a three dimension force sensor based on piezoresistive conductive ink. , 2014, , .		1
38	A novel cross-coupled synchronizing control method of industrial robot for trajectory tracking. , 2015, , .		1
39	Vision-based cylinder posture recognition and on-line adjustment strategy. , 2015, , .		1
40	A method of structure optimization for high-speed and heavy-load robot based on dynamic characteristic analysis. , 2016, , .		1
41	An integrated system of detecting end-effector motion states and wafer stick-slip on a wafer transfer robot. , 2016, , .		1
42	Characteristic Analysis and Design of a Novel Ironless Halbachmagnetized Permanent Magnet Linear Synchronous Motor. , 2018, , .		1
43	Modeling and Analysis of a Large-Load Magnetic Levitation Gravity Compensator. , 2019, , .		1
44	Modeling and Control of Macro-micro Dual-Drive High Acceleration and High Precision Positioning Stage Using for IC Packaging. Lecture Notes in Computer Science, 2008, , 269-278.	1.0	1
45	Modelling and Analysis of a High Acceleration and Precision Linear Motor Direct Drive Motion Stage with Bond Graph Approach. Jiqiren/Robot, 2011, 33, 467-474.	0.4	1
46	Automatic wire bonder designed for MEMS packaging. , 2008, , .		0
47	Research on a New Composite Ultrasonic Energy Transmission Mechanism with Parallel Structure. , 2008, , .		0
48	Heat Affected Zone in the MEMS Wire Bonding. , 2009, , .		0
49	Global Model of PMLSM Drive System Using Bond Graph Method. Lecture Notes in Electrical Engineering, 2011, , 615-622.	0.3	0
50	Modeling and parameters identification of the cross roller guide way. , 2012, , .		0
51	A detection method of stick-slip state on wafer transfer surface and its sensor design. , 2014, , .		0
52	Development of micro-fiber array with high-friction and low-adhesion for wafer transfer on a wafer transfer robot. , 2016, , .		0