

# Yan-Jie Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	An Enhanced Hybrid Visual-Inertial Odometry System for Indoor Mobile Robot. <i>Sensors</i> , 2022, 22, 2930.	2.1	9
2	Magnetic resonance imaging and transrectal ultrasound prostate image segmentation based on improved level set for robotic prostate biopsy navigation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, 1-14.	1.2	9
3	Development of a transperineal prostate biopsy robot guided by MRI-TRUS image. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2266.	1.2	7
4	An Approach for Multi-Objective Obstacle Avoidance Using Dynamic Occupancy Grid Map. , 2020, , .		3
5	Modeling and Analysis of a Large-Load Magnetic Levitation Gravity Compensator. , 2019, , .		1
6	Characteristic Analysis and Design of a Novel Ironless Halbachmagnetized Permanent Magnet Linear Synchronous Motor. , 2018, , .		1
7	A Fast Fusion Method for Multi-exposure Image in YUV Color Space. , 2018, , .		2
8	Plantbot: A New ROS-based Robot Platform for Fast Building and Developing. , 2018, , .		4
9	N-PD cross-coupling synchronization control based on adjacent coupling error analysis. <i>Journal of Central South University</i> , 2018, 25, 1154-1164.	1.2	4
10	A Real-time Pre-impact Fall Detection and Protection System. , 2018, , .		13
11	Multiobjective Trajectory Optimization and Adaptive Backstepping Control for Rubber Unstacking Robot Based on RFWNN Method. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-19.	0.6	2
12	Burner-electrode position control of calcium carbide furnace based on BP-PID controller. , 2017, , .		2
13	A Method of Energy-Optimal Trajectory Planning for Palletizing Robot. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-10.	0.6	8
14	Investigation of an Ironless Permanent Magnet Linear Synchronous Motor with Cooling System. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 422.	1.3	3
15	A Novel Tactile Sensor with Electromagnetic Induction and Its Application on Stick-Slip Interaction Detection. <i>Sensors</i> , 2016, 16, 430.	2.1	25
16	A method of structure optimization for high-speed and heavy-load robot based on dynamic characteristic analysis. , 2016, , .		1
17	An integrated system of detecting end-effector motion states and wafer stick-slip on a wafer transfer robot. , 2016, , .		1
18	Development of micro-fiber array with high-friction and low-adhesion for wafer transfer on a wafer transfer robot. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Stick-Slip Interactions of the Soft-Solid Contact: An Integrated LuGre/Beam Network Model Approach. , 2015, , .		2
20	A novel cross-coupled synchronizing control method of industrial robot for trajectory tracking. , 2015, , .		1
21	Vision-based cylinder posture recognition and on-line adjustment strategy. , 2015, , .		1
22	Method for Structural Optimization Design of Wafer Handling Robot Arms. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2015, 51, 1.	0.7	13
23	A detection method of stick-slip state on wafer transfer surface and its sensor design. , 2014, , .		0
24	Resolution and precision measurement of a three dimension force sensor based on piezoresistive conductive ink. , 2014, , .		1
25	Research, design and experiment of end effector for wafer transfer robot. Industrial Robot, 2012, 39, 79-91.	1.2	8
26	Modeling and parameters identification of the cross roller guide way. , 2012, , .		0
27	Asymmetric Velocity Profile with Fixed Motion Time for Motion Control. Advanced Science Letters, 2012, 6, 593-598.	0.2	3
28	Frame vibration suppression for wafer transfer system. , 2011, , .		2
29	Global Model of PMLSM Drive System Using Bond Graph Method. Lecture Notes in Electrical Engineering, 2011, , 615-622.	0.3	0
30	A novel velocity sensor based on electromagnetic induction. , 2011, , .		1
31	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
32	Stable and accurate trajectory control technology for the wafer transfer robot. , 2010, , .		2
33	Vibration suppression for wafer transfer robot during trajectory tracking. , 2010, , .		4
34	Accurate and steady control on trajectory tracking for the wafer transfer robot. Industrial Robot, 2010, 37, 552-561.	1.2	6
35	Heat Affected Zone in the MEMS Wire Bonding. , 2009, , .		0
36	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

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37	Gold wire stress analysis of wire feed system in automatic wire bonder. , 2009, , .		2
38	Factors governing heat affected zone during wire bonding. Transactions of Nonferrous Metals Society of China, 2009, 19, s490-s494.	1.7	5
39	Automatic wire bonder designed for MEMS packaging. , 2008, , .		0
40	Research on a New Composite Ultrasonic Energy Transmission Mechanism with Parallel Structure. , 2008, , .		0
41	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
42	A novel 2-DOF planar parallel robot with high accelerate / high precision. , 2007, , .		2
43	Research on a New Composite Ultrasonic Energy Transmission System with the Serial Structure. , 2007, , .		1
44	Time-Optimal Trajectory Generation of a Fast-Motion Planar Parallel Manipulator. , 2006, , .		5
45	Design Research of a Novel High Speed Nanometer Positioning System on Macro/Micro Driven for MEMS. , 2006, , .		4
46	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
47	Optimal Kinematic Design of a Planar Parallel Manipulator with High Speed and High Precision. , 2006, , .		4
48	Acceleration feedback control of a harmonic drive parallel robot. , 0, , .		2
49	Design and simulation of a macro-micro dual-drive high acceleration precision XY-stage for IC bonding technology. , 0, , .		5
50	An Approach for Generating High Velocity and High Acceleration Trajectories of Industrial Robots. , 0, , .		1
51	Fast-motion trajectory generation for a new direct-drive planar parallel manipulator. , 0, , .		1
52	Mechanism and control of linear positioning for IC wire bonders. , 0, , .		1