Yang-Min Li

List of Publications by Year
in descending order

368	7,984	57758	71685
papers	citations	44 h-index	76 g-index

376	376	376	3698
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Analysis of a Totally Decoupled Flexure-Based XY Parallel Micromanipulator. IEEE Transactions on Robotics, 2009, 25, 645-657.	10.3	343
2	Adaptive Sliding Mode Control With Perturbation Estimation and PID Sliding Surface for Motion Tracking of a Piezo-Driven Micromanipulator. IEEE Transactions on Control Systems Technology, 2010, 18, 798-810.	5.2	297
3	Analytical modeling, optimization and testing of a compound bridge-type compliant displacement amplifier. Mechanism and Machine Theory, 2011, 46, 183-200.	4.5	216
4	Kinematic analysis of a 3-PRS parallel manipulator. Robotics and Computer-Integrated Manufacturing, 2007, 23, 395-408.	9.9	203
5	A Totally Decoupled Piezo-Driven XYZ Flexure Parallel Micropositioning Stage for Micro/Nanomanipulation. IEEE Transactions on Automation Science and Engineering, 2011, 8, 265-279.	5.2	194
6	Stiffness analysis for a 3-PUU parallel kinematic machine. Mechanism and Machine Theory, 2008, 43, 186-200.	4.5	178
7	Modeling and High Dynamic Compensating the Rate-Dependent Hysteresis of Piezoelectric Actuators via a Novel Modified Inverse Preisach Model. IEEE Transactions on Control Systems Technology, 2013, 21, 1549-1557.	5.2	161
8	A Compliant Parallel XY Micromotion Stage With Complete Kinematic Decoupling. IEEE Transactions on Automation Science and Engineering, 2012, 9, 538-553.	5.2	149
9	A Novel Piezoactuated XY Stage With Parallel, Decoupled, and Stacked Flexure Structure for Micro-/Nanopositioning. IEEE Transactions on Industrial Electronics, 2011, 58, 3601-3615.	7.9	139
10	Development and Active Disturbance Rejection Control of a Compliant Micro-/Nanopositioning Piezostage With Dual Mode. IEEE Transactions on Industrial Electronics, 2014, 61, 1475-1492.	7.9	138
11	A Modified PSO Structure Resulting in High Exploration Ability With Convergence Guaranteed. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1271-1289.	5.0	132
12	Kinematics, Dynamics, and Control of a Cable-Driven Hyper-Redundant Manipulator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1693-1704.	5.8	130
13	Kinematic Analysis and Design of a New 3-DOF Translational Parallel Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 729-737.	2.9	123
14	Dahl Model-Based Hysteresis Compensation and Precise Positioning Control of an XY Parallel Micromanipulator With Piezoelectric Actuation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	119
15	Design, Analysis, and Test of a Novel 2-DOF Nanopositioning System Driven by Dual Mode. IEEE Transactions on Robotics, 2013, 29, 650-662.	10.3	117
16	Design and Robust Repetitive Control of a New Parallel-Kinematic XY Piezostage for Micro/Nanomanipulation. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1120-1132.	5.8	114
17	Design and analysis of a novel 6-DOF redundant actuated parallel robot with compliant hinges for high precision positioning. Nonlinear Dynamics, 2010, 61, 829-845.	5.2	108
18	Development and Assessment of a Novel Decoupled XY Parallel Micropositioning Platform. IEEE/ASME Transactions on Mechatronics, 2010, 15, 125-135.	5.8	105

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19	Micro-/Nanopositioning Using Model Predictive Output Integral Discrete Sliding Mode Control. IEEE Transactions on Industrial Electronics, 2012, 59, 1161-1170.	7.9	102
20	Kinematics and inverse dynamics analysis for a general 3-PRS spatial parallel mechanism. Robotica, 2005, 23, 219-229.	1.9	101
21	Optimal Design, Fabrication, and Control of an XY Micropositioning Stage Driven by Electromagnetic Actuators. IEEE Transactions on Industrial Electronics, 2013, 60, 4613-4626.	7.9	99
22	Modeling and performance evaluation of a flexure-based XY parallel micromanipulator. Mechanism and Machine Theory, 2009, 44, 2127-2152.	4.5	97
23	Model Predictive Discrete-Time Sliding Mode Control of a Nanopositioning Piezostage Without Modeling Hysteresis. IEEE Transactions on Control Systems Technology, 2012, 20, 983-994.	5.2	95
24	Design and Development of a Medical Parallel Robot for Cardiopulmonary Resuscitation. IEEE/ASME Transactions on Mechatronics, 2007, 12, 265-273.	5.8	93
25	Inverse Kinematics and Control of a 7-DOF Redundant Manipulator Based on the Closed-Loop Algorithm. International Journal of Advanced Robotic Systems, 2010, 7, 37.	2.1	81
26	Development and Repetitive-Compensated PID Control of a Nanopositioning Stage With Large-Stroke and Decoupling Property. IEEE Transactions on Industrial Electronics, 2018, 65, 3995-4005.	7.9	81
27	A novel design and analysis of a 2-DOF compliant parallel micromanipulator for nanomanipulation. IEEE Transactions on Automation Science and Engineering, 2006, 3, 247-254.	5.2	77
28	Optimal design of a 3-PUPU parallel robot with compliant hinges for micromanipulation in a cubic workspace. Robotics and Computer-Integrated Manufacturing, 2011, 27, 977-985.	9.9	76
29	Dynamic modeling and robust control of a 3-PRC translational parallel kinematic machine. Robotics and Computer-Integrated Manufacturing, 2009, 25, 630-640.	9.9	73
30	An investigation on mobility and stiffness of a 3-DOF translational parallel manipulator via screw theory. Robotics and Computer-Integrated Manufacturing, 2008, 24, 402-414.	9.9	68
31	A general dynamics and control model of a class of multi-DOF manipulators for active vibration control. Mechanism and Machine Theory, 2011, 46, 1549-1574.	4.5	68
32	Design, modeling, control and experiment for a 2-DOF compliant micro-motion stage. International Journal of Precision Engineering and Manufacturing, 2014, 15, 735-744.	2.2	67
33	Feedforward nonlinear PID control of a novel micromanipulator using Preisach hysteresis compensator. Robotics and Computer-Integrated Manufacturing, 2015, 34, 124-132.	9.9	67
34	Analysis of soilâ€structural interface behavior using threeâ€dimensional DEM simulations. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 339-357.	3.3	66
35	Optimum Design of a Piezo-Actuated Triaxial Compliant Mechanism for Nanocutting. IEEE Transactions on Industrial Electronics, 2018, 65, 6362-6371.	7.9	64
36	A New Flexure-Based <inline-formula><tex-math notation="LaTeX">$Yheta$</tex-math></inline-formula> Nanomanipulator With Nanometer-Scale Resolution and Millimeter-Scale Workspace. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1320-1330.	5.8	59

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37	Inverse dynamics of a 3-PRC parallel kinematic machine. Nonlinear Dynamics, 2012, 67, 1031-1041.	5.2	57
38	Dynamics and control of a parallel mechanism for active vibration isolation in space station. Nonlinear Dynamics, 2014, 76, 1737-1751.	5.2	55
39	Design, Fabrication, and Visual Servo Control of an XY Parallel Micromanipulator With Piezo-Actuation. IEEE Transactions on Automation Science and Engineering, 2009, 6, 710-719.	5.2	54
40	Dynamic compensation and control for piezoelectric actuators based on the inverse Boucâ€“Wen model. Robotics and Computer-Integrated Manufacturing, 2014, 30, 47-54.	9.9	54
41	Real-Time Tip-Over Prevention and Path Following Control for Redundant Nonholonomic Mobile Modular Manipulators via Fuzzy and Neural-Fuzzy Approaches. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 753-764.	1.6	51
42	Error analysis and optimal design of a class of translational parallel kinematic machine using particle swarm optimization. Robotica, 2009, 27, 67-78.	1.9	51
43	Design and Optimization of an XYZ Parallel Micromanipulator with Flexure Hinges. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 55, 377-402.	3.4	50
44	Smooth Path Planning of a Mobile Robot Using Stochastic Particle Swarm Optimization. , 2006, , .		48
45	Discrete-Time Sliding-Mode Control With Enhanced Power Reaching Law. IEEE Transactions on Industrial Electronics, 2019, 66, 4629-4638.	7.9	48
46	Sliding Mode Adaptive Neural-Network Control for Nonholonomic Mobile Modular Manipulators. Journal of Intelligent and Robotic Systems: Theory and Applications, 2005, 44, 203-224.	3.4	47
47	A Hybrid Active and Passive Cable-Driven Segmented Redundant Manipulator: Design, Kinematics, and Planning. IEEE/ASME Transactions on Mechatronics, 2021, 26, 930-942.	5.8	47
48	Modeling and Control Analysis of a 3-PUPU Dual Compliant Parallel Manipulator for Micro Positioning and Active Vibration Isolation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	45
49	Visual Servo Feedback Control of a Novel Large Working Range Micro Manipulation System for Microassembly. Journal of Microelectromechanical Systems, 2014, 23, 181-190.	2.5	44
50	A novel analytical model for flexure-based proportion compliant mechanisms. Precision Engineering, 2014, 38, 449-457.	3.4	39
51	Noise tolerance leader-following of high-order nonlinear dynamical multi-agent systems with switching topology and communication delay. Journal of the Franklin Institute, 2016, 353, 108-143.	3.4	38
52	Design, analysis and simulation of a novel 3-DOF translational micromanipulator based on the PRB model. Mechanism and Machine Theory, 2016, 100, 235-258.	4.5	38
53	A Novel Dead Zone Reaching Law of Discrete-Time Sliding Mode Control With Disturbance Compensation. IEEE Transactions on Industrial Electronics, 2020, 67, 4815-4825.	7.9	38
54	Static Hand Gesture Recognition with Parallel CNNs for Space Human-Robot Interaction. Lecture Notes in Computer Science, 2017, , 462-473.	1.3	37

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55	Design and analysis of a 3-DOF planar micromanipulation stage with large rotational displacement for micromanipulation system. Mechanical Sciences, 2017, 8, 117-126.	1.0	37
56	A New Approach to the Architecture Optimization of a General 3-PUU Translational Parallel Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2006, 46, 59-72.	3.4	36
57	Kinematics analysis of a novel over-constrained three degree-of-freedom spatial parallel manipulator. Mechanism and Machine Theory, 2016, 104, 222-233.	4.5	36
58	A novel design of a 3-PRC translational compliant parallel micromanipulator for nanomanipulation. Robotica, 2006, 24, 527-528.	1.9	33
59	Design of a spatial constant-force end-effector for polishing/deburring operations. International Journal of Advanced Manufacturing Technology, 2021, 116, 3507-3515.	3.0	33
60	Design and analysis of a dual-mode driven parallel XY micromanipulator for micro/nanomanipulations. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 3043-3057.	2.1	32
61	New empirical stiffness equations for corner-filleted flexure hinges. Mechanical Sciences, 2013, 4, 345-356.	1.0	32
62	Mobile Robot Navigation Using Particle Swarm Optimization and Adaptive NN. Lecture Notes in Computer Science, 2005, , 628-631.	1.3	31
63	Simulation and control of a two-wheeled self-balancing robot. , 2013, , .		31
64	Nonlinear dynamic modeling and hybrid control design with dynamic compensator for a small-scale UAV quadrotor. Measurement: Journal of the International Measurement Confederation, 2017, 109, 51-64.	5.0	31
65	Kinematics and tip-over stability analysis for the mobile modular manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2005, 219, 331-342.	2.1	30
66	Smooth trajectory planning for a parallel manipulator with joint friction and jerk constraints. International Journal of Control, Automation and Systems, 2016, 14, 1022-1036.	2.7	29
67	Development of a novel large stroke 2-DOF micromanipulator for micro/nano manipulation. Microsystem Technologies, 2017, 23, 2993-3003.	2.0	29
68	Design and Analysis of a New High Precision Decoupled XY Compact Parallel Micromanipulator. Micromachines, 2017, 8, 82.	2.9	29
69	Hysteresis Compensation and Sliding Mode Control with Perturbation Estimation for Piezoelectric Actuators. Micromachines, 2018, 9, 241.	2.9	29
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71	Parameter Identification and Vibration Control in Modular Manipulators. IEEE/ASME Transactions on Mechatronics, 2004, 9, 700-705.	5.8	27
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73	A Cable-Driven Redundant Spatial Manipulator with Improved Stiffness and Load Capacity. , 2018, , .		27
74	Minimum-jerk trajectory planning pertaining to a translational 3-degree-of-freedom parallel manipulator through piecewise quintic polynomials interpolation. Advances in Mechanical Engineering, 2020, 12, 168781402091366.	1.6	27
75	Hybrid control approach to the peg-in hole problem. IEEE Robotics and Automation Magazine, 1997, 4, 52-60.	2.0	26
76	Design and analysis of a new singularity-free three-prismatic-revolute-cylindrical translational parallel manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 565-576.	2.1	25
77	Design of Variable Stiffness Actuator Based on Modified Gearâ€“Rack Mechanism. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	25
78	Free-flying dynamics and control of an astronaut assistant robot based on fuzzy sliding mode algorithm. Acta Astronautica, 2017, 138, 462-474.	3.2	25
79	Interface Direct Shearing Behavior Between Soil and Saw-tooth Surfaces by DEM Simulation. Procedia Engineering, 2017, 175, 36-42.	1.2	25
80	DCPR-GAN: Dental Crown Prosthesis Restoration Using Two-Stage Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 151-160.	6.3	25
81	Modeling and simulation of swarms for collecting objects. Robotica, 2006, 24, 315-324.	1.9	24
82	Active Vibration Control of a Modular Robot Combining a Back-Propagation Neural Network with a Genetic Algorithm. JVC/Journal of Vibration and Control, 2005, 11, 3-17.	2.6	23
83	A Memetic Algorithm for Global Optimization of Multimodal Nonseparable Problems. IEEE Transactions on Cybernetics, 2016, 46, 1375-1387.	9.5	23
84	Development Status of Micromanipulator Technology for Biomedical Applications. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2011, 47, 1.	0.5	23
85	Kinematic analysis of a novel 3-CRU translational parallel mechanism. Mechanical Sciences, 2015, 6, 57-64.	1.0	23
86	A survey on synthesis of compliant constant force/torque mechanisms. Mechanism and Machine Theory, 2022, 176, 104970.	4.5	23
87	Kinematic Analysis and Optimization of a New Compliant Parallel Micromanipulator. International Journal of Advanced Robotic Systems, 2006, 3, 47.	2.1	22
88	Attitude control for astronaut assisted robot in the space station. International Journal of Control, Automation and Systems, 2016, 14, 1082-1095.	2.7	22
89	Development of an Electromagnetic Actuated Microdisplacement Module. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1252-1261.	5.8	22
90	Kinematics and Dexterity Analysis for a Novel 3-DOF Translational Parallel Manipulator. , 0, , .		21

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91	Design and analysis of a novel flexure-based XY micro-positioning stage driven by electromagnetic actuators. , 2011, , .		21
92	A point cloud registration algorithm based on normal vector and particle swarm optimization. Measurement and Control, 2020, 53, 265-275.	1.8	21
93	Kinematics and dynamics analysis of the 3PUS-PRU parallel mechanism module designed for a novel 6-DOF gantry hybrid machine tool. Journal of Mechanical Science and Technology, 2020, 34, 345-357.	1.5	21
94	Optimal design of a novel micro-gripper with completely parallel movement of gripping arms. , 2011, , .		20
95	Design and analysis of a novel compact XYZ parallel precision positioning stage. Microsystem Technologies, 2021, 27, 1925-1932.	2.0	20
96	A model reference adaptive PID control for electromagnetic actuated micro-positioning stage. , 2012, , .		19
97	Multi-Power Reaching Law Based Discrete-Time Sliding-Mode Control. IEEE Access, 2019, 7, 49822-49829.	4.2	19
98	FEA-based optimization and experimental verification of a typical flexure-based constant force module. Sensors and Actuators A: Physical, 2021, 332, 113083.	4.1	19
99	Active Vibration Control of a Modular Robot Combining a Back-Propagation Neural Network with a Genetic Algorithm. JVC/Journal of Vibration and Control, 2005, 11, 3-17.	2.6	18
100	Development of a large working range flexure-based 3-DOF micro-parallel manipulator driven by electromagnetic actuators. , 2013, , .		18
101	Motion Control of Magnetic Microrobot Using Uniform Magnetic Field. IEEE Access, 2020, 8, 71083-71092.	4.2	18
102	Kinematics control of redundant manipulators using a CMAC neural network combined with a genetic algorithm. Robotica, 2004, 22, 611-621.	1.9	17
103	synchronization of coupled reactionâ€diffusion neural networks with mixed delays. Complexity, 2016, 21, 42-53.	1.6	17
104	Stability on Adaptive NN Formation Control with Variant Formation Patterns and Interaction Topologies. International Journal of Advanced Robotic Systems, 2008, 5, 8.	2.1	16
105	Inverse kinematics analysis for the arm of a mobile humanoid robot based on the closed-loop algorithm. , 2009, , .		16
106	Electromechanical Dynamics Model of Ultrasonic Transducer in Ultrasonic Machining Based on Equivalent Circuit Approach. Sensors, 2019, 19, 1405.	3.8	16
107	Online fuzzy logic control for tipover avoidance of autonomous redundant mobile manipulators. International Journal of Vehicle Autonomous Systems, 2006, 4, 24.	0.2	15
108	Design and implementation of a variable stiffness actuator based on flexible gear rack mechanism. Robotica, 2018, 36, 448-462.	1.9	15

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109	Design and Dynamic Modeling of Variable Stiffness Joint Actuator Based on Archimedes Spiral. IEEE Access, 2018, 6, 43798-43807.	4.2	15
110	Improved Mechanical Design and Simplified Motion Planning of Hybrid Active and Passive Cable-Driven Segmented Manipulator with Coupled Motion. , 2019, , .		15
111	A Novel Approach to Control of Piezo-Transducer in Microelectronics Packaging: PSO-PID and Editing Trajectory Optimization. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 795-805.	2.5	15
112	Dynamic analysis of a modified DELTA parallel robot for cardiopulmonary resuscitation. , 2005, , .		14
113	Optimal Design and Control Strategy of a Novel 2-DOF Micromanipulator. International Journal of Advanced Robotic Systems, 2013, 10, 162.	2.1	14
114	Guaranteed cost synchronization of complex networks with uncertainties and timeâ€Varying delays. Complexity, 2016, 21, 381-395.	1.6	14
115	Optimization of Thermal Efficiency and Unburned Carbon in Fly Ash of Coal-Fired Utility Boiler via Grey Wolf Optimizer Algorithm. IEEE Access, 2019, 7, 114414-114425.	4.2	14
116	A Novel Variable Exponential Discrete Time Sliding Mode Reaching Law. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2518-2522.	3.0	14
117	Identification of Preisach Model Parameters Based on an Improved Particle Swarm Optimization Method for Piezoelectric Actuators in Micro-Manufacturing Stages. Micromachines, 2022, 13, 698.	2.9	14
118	Kinematic analysis and dynamic control of a 3-PUU parallel manipulator for cardiopulmonary resuscitation. , 0, , .		13
119	Design and analysis of a novel micro-gripper with completely parallel movement of gripping arms. , 2011, , .		13
120	Orthogonal Experimental Design method used in Particle Swarm Optimization for multimodal problems. , 2013, , .		13
121	Adaptive nonlinear output-feedback dynamic surface control with unknown high-frequency gain sign. International Journal of Control, 2013, 86, 2203-2214.	1.9	13
122	Mobility analysis of a 3-PUU flexure-based manipulator based on screw theory and compliance matrix method. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1345-1353.	2.2	13
123	Trajectory tracking control for a nonholonomic mobile robot using an improved ILC. , 2014, , .		13
124	Optimized PID tracking control for piezoelectric actuators based on the Bouc-Wen model. , 2016, , .		13
125	Mobile robot autonomous path planning based on fuzzy logic and filter smoothing in dynamic environment. , 2016, , .		13
126	Stabilization for Networked Control System With Time-Delay and Packet Loss in Both S-C Side and C-A Side. IEEE Access, 2020, 8, 2513-2523.	4.2	13

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127	Predefined-Time Barrier Function Adaptive Sliding-Mode Control and Its Application to Piezoelectric Actuators. IEEE Transactions on Industrial Informatics, 2022, 18, 8682-8691.	11.3	13
128	Design, modeling and testing of a vibration absorption device with energy harvesting based on force amplifier and piezoelectric stack. Energy Conversion and Management, 2022, 255, 115305.	9.2	13
129	Configuration design and experimental verification of a variable constant-force compliant mechanism. Robotica, 2022, 40, 3463-3475.	1.9	13
130	The identification of joint parameters for modular robots using fuzzy theory and a genetic algorithm. Robotica, 2002, 20, 509-517.	1.9	12
131	GA-Based Multi-Objective Optimal Design of a Planar 3-DOF Cable-Driven Parallel Manipulator. , 2006, , .		12
132	Radial basis function neural network control of an XY micropositioning stage without exact dynamic model. , 2009, , .		12
133	Hysteresis modeling and inverse feedforward control of an AFM piezoelectric scanner based on nano images. , 2011, , .		12
134	Design of an optimal flight control system with integral augmented compensator for a nonlinear UAV helicopter. , 2012, , .		12
135	Design and Assessment of a Flexure-Based 2-DOF Micromanipulator for Automatic Cell Micro-Injection. Advanced Materials Research, 0, 457-458, 445-448.	0.3	12
136	Novel Optimization Approach in Ultrasonic Machining: Unilateral Compensation for Resonant Vibration in Primary Side. IEEE Access, 2019, 7, 34131-34140.	4.2	12
137	A spring-damping contact force model considering normal friction for impact analysis. Nonlinear Dynamics, 2021, 105, 1437-1457.	5.2	12
138	Design and analysis of new ultra compact decoupled XYZ<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e965" altimg="si25.svg"><mml:mi>Î¸</mml:mi></mml:math> stage to achieve large-scale high precision motion. Mechanism and Machine Theory, 2022, 167, 104527.	4.5	12
139	Survey on parallel manipulators with micro/nano manipulation technology and applications. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2008, 44, 12.	0.5	12
140	Stiffness Modeling for an Orthogonal 3-PUU Compliant Parallel Micromanipulator. , 2006, , .		11
141	Kinematics and tip-over stability analysis for a mobile humanoid robot moving on a slope. , 2008, , .		11
142	Global sliding mode-based tracking control of a piezo-driven XY micropositioning stage with unmodeled hysteresis. , 2009, , .		11
143	Design and analysis of a completely decoupled compliant parallel XY micro-motion stage. , 2010, , .		11
144	Distance measurement of zooming image for a mobile robot. International Journal of Control, Automation and Systems, 2013, 11, 782-789.	2.7	11

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145	Design of Large-Range XY Compliant Parallel Manipulators Based on Parasitic Motion Compensation. , 2013, , .		11
146	Dynamic modeling for high-performance controller design of a UAV quadrotor. , 2015, , .		11
147	Multi-objective Dimensional Optimization of a 3-DOF Translational PKM Considering Transmission Properties. International Journal of Automation and Computing, 2019, 16, 748-760.	4.5	11
148	Design of flexure-based modular architecture micro-positioning stage. Microsystem Technologies, 2020, 26, 2893-2901.	2.0	11
149	Development and Testing of a Large-Stroke Nanopositioning Stage With Linear Active Disturbance Rejection Controller. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2461-2470.	5.2	11
150	Design and Analysis of a Novel 3-DOF Large Stroke Micro-positioning Platform. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2013, 49, 48.	0.5	11
151	Enumeration of the Non-Isomorphic Configurations for a Reconfigurable Modular Robot with Square-Cubic-Cell Modules. International Journal of Advanced Robotic Systems, 2010, 7, 31.	2.1	10
152	Massaging human feet by a redundant manipulator equipped with a tactile sensor. , 2010, , .		10
153	Traching Control Of A Redundant Manipulator With The Assistance Of Tactile Sensing. Intelligent Automation and Soft Computing, 2011, 17, 833-845.	2.1	10
154	A verifiable dynamic threshold key management scheme based on bilinear pairing without a trusted party in mobile ad hoc network. , 2012, , .		10
155	A novel flexure-based 3-DOF micro-parallel manipulator with a gripper for micro/nano manipulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 606-611.	0.4	10
156	Optimal guaranteed cost synchronization of coupled neural networks with Markovian jump and mode-dependent mixed time-delay. Optimal Control Applications and Methods, 2016, 37, 922-947.	2.1	10
157	Distributed learning particle swarm optimizer for global optimization of multimodal problems. Frontiers of Computer Science, 2018, 12, 122-134.	2.4	10
158	Different Kinds of 3T2R Serial Kinematic Chains and Their Applications in Synthesis of Parallel Mechanisms. Mechanism and Machine Theory, 2020, 144, 103637.	4.5	10
159	Tracking Control of PZT-Driven Compliant Precision Positioning Micromanipulator. IEEE Access, 2020, 8, 126477-126487.	4.2	10
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161	Noise-tolerance consensus formation control for multi-robotic networks. Transactions of the Institute of Measurement and Control, 2020, 42, 1569-1581.	1.7	10
162	Sliding Mode Control for Uncertain Discrete-Time Systems Using an Adaptive Reaching Law. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 722-726.	3.0	10

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163	Design and optimization of full decoupled micro/nano-positioning stage based on mathematical calculation. Mechanical Sciences, 2018, 9, 417-429.	1.0	10
164	Parameters identification and vibration control for modular manipulators. , 0, , .		9
165	Stability on multi-robot formation with dynamic interaction topologies. , 2005, , .		9
166	Dynamic control of multi-robot formation. , 0, , .		9
167	Tracking performance characterization and improvement of a piezoactuated micropositioning system based on an empirical index. Robotics and Computer-Integrated Manufacturing, 2010, 26, 744-752.	9.9	9
168	Mobility and kinematic analysis of a novel dexterous micro gripper. , 2012, , .		9
169	Optimal design of the lever displacement amplifiers for a flexure-based dual-mode motion stage. , 2012, , .		9
170	Development and assessment of a novel hydraulic displacement amplifier for piezo-actuated large stroke precision positioning. , 2013, , .		9
171	Development and control of a compact 3-DOF micromanipulator for high-precise positioning. , 2014, , .		9
172	Dynamics analysis of a novel over-constrained three-DOF parallel manipulator. , 2014, , .		9
173	Design, Modeling, and Analysis of a Novel Microgripper Based on Flexure Hinges. Advances in Mechanical Engineering, 2014, 6, 947584.	1.6	9
174	Classification and analysis of constraint singularities for parallel mechanisms using differential manifolds. Applied Mathematical Modelling, 2020, 77, 469-477.	4.2	9
175	Sliding Mode Control: An Incremental Perspective. IEEE Access, 2020, 8, 20108-20117.	4.2	9
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178	Control of a mobile modular manipulator moving on a slope. , 0, , .		8
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