Yang-Min Li

List of Publications by Year
in descending order

368 papers	7,984 citations	57631 44 h-index	71532 76 g-index
376 all docs	376 docs citations	376 times ranked	3698 citing authors

#	Article	IF	Citations
1	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.	3.4	11
2	An obstacle avoidance algorithm for space hyper-redundant manipulators using combination of RRT and shape control method. Robotica, 2022, 40, 1036-1069.	1.3	4
3	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.	2.7	12
4	DCPR-GAN: Dental Crown Prosthesis Restoration Using Two-Stage Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 151-160.	3.9	25
5	Predefined-Time Barrier Function Adaptive Sliding-Mode Control and Its Application to Piezoelectric Actuators. IEEE Transactions on Industrial Informatics, 2022, 18, 8682-8691.	7.2	13
6	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.	4.4	13
7	Identification of Preisach Model Parameters Based on an Improved Particle Swarm Optimization Method for Piezoelectric Actuators in Micro-Manufacturing Stages. Micromachines, 2022, 13, 698.	1.4	14
8	Design and Modeling of a Novel Tripteron-Inspired Triaxial Parallel Compliant Manipulator with Compact Structure. Micromachines, 2022, 13, 678.	1.4	2
9	Configuration design and experimental verification of a variable constant-force compliant mechanism. Robotica, 2022, 40, 3463-3475.	1.3	13
10	A Suspended Cable-Driven Parallel Robot With Articulated Reconfigurable Moving Platform for Schönflies Motions. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5173-5184.	3.7	9
11	Design, Assembly, and Simulation of Flexure-Based Modular Micro-Positioning Stages. Machines, 2022, 10, 421.	1.2	9
12	Kinematic and Dynamic Modeling and Workspace Analysis of a Suspended Cable-Driven Parallel Robot for Schönflies Motions. Machines, 2022, 10, 451.	1.2	5
13	The Navigation of Mobile Robot in the Indoor Dynamic Unknown Environment Based on Decision Tree Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	2
14	A survey on synthesis of compliant constant force/torque mechanisms. Mechanism and Machine Theory, 2022, 176, 104970.	2.7	23
15	Novel Double Compensation for Impedanceâ€"Frequency Characteristics of Rotary Ultrasonic Machining via Multiobjective Genetic Algorithm. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1928-1938.	3.4	8
16	Design of Discrete-Time Sliding Mode Control With Disturbance Compensator-Based Switching Function. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1268-1272.	2.2	7
17	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.	2.2	10
18	Finite-time bounded control design for one-sided Lipschitz differential inclusions. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 943-951.	0.7	0

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19	Design and analysis of a novel compact XYZ parallel precision positioning stage. Microsystem Technologies, 2021, 27, 1925-1932.	1.2	20
20	A new structure to achieve large-scale damage-avoiding capture based on compliant mechanism. Microsystem Technologies, 2021, 27, 937-944.	1.2	4
21	Design and control of a novel electromagnetic actuated 3-DoFs micropositioner. Microsystem Technologies, 2021, 27, 3763-3772.	1.2	6
22	Design and control of a novel micro-gripper using adaptive backstepping slide mode control method. Microsystem Technologies, 2021, 27, 4227-4239.	1.2	6
23	Disturbance estimator-based switching function for discrete-time sliding mode control systems with control saturation. Transactions of the Institute of Measurement and Control, 2021, 43, 2715-2723.	1.1	1
24	A Hybrid Active and Passive Cable-Driven Segmented Redundant Manipulator: Design, Kinematics, and Planning. IEEE/ASME Transactions on Mechatronics, 2021, 26, 930-942.	3.7	47
25	Analysis and multi-objective optimal design of a planar differentially driven cable parallel robot. Robotica, 2021, 39, 2193-2209.	1.3	6
26	Saturated adaptive barrier sliding mode control with state–dependent uncertainty limit. IET Control Theory and Applications, 2021, 15, 1762-1768.	1.2	5
27	Development of a 3-DOF Flexible Micro-Motion Platform Based on a New Compound Lever Amplification Mechanism. Micromachines, 2021, 12, 686.	1.4	7
28	A spring-damping contact force model considering normal friction for impact analysis. Nonlinear Dynamics, 2021, 105, 1437-1457.	2.7	12
29	A Novel Variable Exponential Discrete Time Sliding Mode Reaching Law. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2518-2522.	2.2	14
30	Design of a spatial constant-force end-effector for polishing/deburring operations. International Journal of Advanced Manufacturing Technology, 2021, 116, 3507-3515.	1.5	33
31	Adaptive Barrier Sliding-Mode Control Considering State-Dependent Uncertainty. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3301-3305.	2.2	7
32	FEA-based optimization and experimental verification of a typical flexure-based constant force module. Sensors and Actuators A: Physical, 2021, 332, 113083.	2.0	19
33	Disturbance Compensation Based Discrete-time Sliding Mode Control with a Reference Trajectory Generator. International Journal of Control, Automation and Systems, 2021, 19, 3862-3868.	1.6	4
34	Kinematic analysis of deployable parallel mechanisms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 263-272.	1.1	5
35	A Novel Dead Zone Reaching Law of Discrete-Time Sliding Mode Control With Disturbance Compensation. IEEE Transactions on Industrial Electronics, 2020, 67, 4815-4825.	5.2	38
36	Classification and analysis of constraint singularities for parallel mechanisms using differential manifolds. Applied Mathematical Modelling, 2020, 77, 469-477.	2.2	9

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37	A point cloud registration algorithm based on normal vector and particle swarm optimization. Measurement and Control, 2020, 53, 265-275.	0.9	21
38	Different Kinds of 3T2R Serial Kinematic Chains and Their Applications in Synthesis of Parallel Mechanisms. Mechanism and Machine Theory, 2020, 144, 103637.	2.7	10
39	An Incremental Feedback Control for Uncertain Mechanical System. IEEE Access, 2020, 8, 20725-20734.	2.6	2
40	Tracking Control of PZT-Driven Compliant Precision Positioning Micromanipulator. IEEE Access, 2020, 8, 126477-126487.	2.6	10
41	Novel Surface Design of Deployable Reflector Antenna Based on Polar Scissor Structures. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	1.9	10
42	Notice of Retraction: Perspective and Prediction of the Rule of High Temperature Melting of SiO_2 via Visual Analysis. IEEE Access, 2020, 8, 171334-171349.	2.6	1
43	Optimal attitude tracking control for an unmanned aerial quadrotor under lumped disturbances. International Journal of Micro Air Vehicles, 2020, 12, 175682932092356.	1.0	4
44	H_∞ Control of Networked Control System With Data Packet Dropout via Observer-Based Controller. IEEE Access, 2020, 8, 58300-58309.	2.6	5
45	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.	0.8	27
46	Noise-tolerance consensus formation control for multi-robotic networks. Transactions of the Institute of Measurement and Control, 2020, 42, 1569-1581.	1.1	10
47	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.	0.7	21
48	Fractional Order Exponential Type Discrete-time Sliding Mode Control. International Journal of Control, Automation and Systems, 2020, 18, 374-383.	1.6	8
49	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.	2.6	13
50	Sliding Mode Control: An Incremental Perspective. IEEE Access, 2020, 8, 20108-20117.	2.6	9
51	Two-Mode-Dependent Controller Design for Networked Markov System With Time-Delay in Both S/C Link and C/A Link. IEEE Access, 2020, 8, 56181-56190.	2.6	2
52	An Investigation on a Novel 3-RCU Flexible Micromanipulator. Micromachines, 2020, 11, 423.	1.4	6
53	Design of flexure-based modular architecture micro-positioning stage. Microsystem Technologies, 2020, 26, 2893-2901.	1.2	11
54	Motion Control of Magnetic Microrobot Using Uniform Magnetic Field. IEEE Access, 2020, 8, 71083-71092.	2.6	18

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55	Design of funnel function‐based discrete‐time sliding mode control. IET Control Theory and Applications, 2020, 14, 2413-2418.	1.2	2
56	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.	1.4	15
57	Compensation Modeling and Optimization on Contactless Rotary Transformer in Rotary Ultrasonic Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	8
58	Discrete-Time Sliding-Mode Control With Enhanced Power Reaching Law. IEEE Transactions on Industrial Electronics, 2019, 66, 4629-4638.	5.2	48
59	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
60	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.	2.6	14
61	Motion generators of quadric surfaces. Mechanism and Machine Theory, 2019, 140, 446-456.	2.7	4
62	Multi-Power Reaching Law Based Discrete-Time Sliding-Mode Control. IEEE Access, 2019, 7, 49822-49829.	2.6	19
63	Electromechanical Dynamics Model of Ultrasonic Transducer in Ultrasonic Machining Based on Equivalent Circuit Approach. Sensors, 2019, 19, 1405.	2.1	16
64	Novel Optimization Approach in Ultrasonic Machining: Unilateral Compensation for Resonant Vibration in Primary Side. IEEE Access, 2019, 7, 34131-34140.	2.6	12
65	A Generalized Input-output-based Digital Sliding-mode Control for Piezoelectric Actuators with Non-minimum Phase Property. International Journal of Control, Automation and Systems, 2019, 17, 773-782.	1.6	7
66	Improved Mechanical Design and Simplified Motion Planning of Hybrid Active and Passive Cable-Driven Segmented Manipulator with Coupled Motion. , 2019, , .		15
67	Observer-based control for active suspension system with time-varying delay and uncertainty. Advances in Mechanical Engineering, 2019, 11, 168781401988950.	0.8	4
68	Optimum Design of a Piezo-Actuated Triaxial Compliant Mechanism for Nanocutting. IEEE Transactions on Industrial Electronics, 2018, 65, 6362-6371.	5.2	64
69	External force estimation of a piezo-actuated compliant mechanism based on a fractional order hysteresis model. Mechanical Systems and Signal Processing, 2018, 110, 296-306.	4.4	27
70	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.	5.2	81
71	Design and analysis of a flexure-based modular precision positioning stage with two different materials. Multidiscipline Modeling in Materials and Structures, 2018, 14, 516-529.	0.6	4
72	Fast dynamic hysteresis modeling using a regularized online sequential extreme learning machine with forgetting property. International Journal of Advanced Manufacturing Technology, 2018, 94, 3473-3484.	1.5	5

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73	Distributed learning particle swarm optimizer for global optimization of multimodal problems. Frontiers of Computer Science, 2018, 12, 122-134.	1.6	10
74	Analysis of soil–structural interface behavior using three–dimensional DEM simulations. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 339-357.	1.7	66
75	Design and implementation of a variable stiffness actuator based on flexible gear rack mechanism. Robotica, 2018, 36, 448-462.	1.3	15
76	Design and Analysis of a New Type of Spatial Flexible Micromanipulation Platform. , 2018, , .		0
77	Kinematics Performance Analysis of 2-RPU & 2-SPS Spatial Parallel Manipulator. , 2018, , .		0
78	A Cable-Driven Redundant Spatial Manipulator with Improved Stiffness and Load Capacity. , 2018, , .		27
79	An investigation on kinematics and dynamics performance of a novel 3-PRC-compliant parallel micromanipulator. Advances in Mechanical Engineering, 2018, 10, 168781401878980.	0.8	5
80	High Dynamic Control of a Flexure Fast Tool Servo Using On-line Sequential Extreme Learning Machine. , 2018, , .		2
81	Design and Dynamic Modeling of Variable Stiffness Joint Actuator Based on Archimedes Spiral. IEEE Access, 2018, 6, 43798-43807.	2.6	15
82	Hysteresis Compensation and Sliding Mode Control with Perturbation Estimation for Piezoelectric Actuators. Micromachines, 2018, 9, 241.	1.4	29
83	Configuration Analysis and Design of a Multidimensional Tele-operator Based on a 3-P(4S) Parallel Mechanism. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 339-348.	2.0	4
84	Design and Implementation of a Two-Wheel and Hopping Robot With a Linkage Mechanism. IEEE Access, 2018, 6, 42422-42430.	2.6	28
85	Kinematics, Dynamics, and Control of a Cable-Driven Hyper-Redundant Manipulator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1693-1704.	3.7	130
86	Design and optimization of full decoupled micro/nano-positioning stage based on mathematical calculation. Mechanical Sciences, 2018, 9, 417-429.	0.5	10
87	Hand Detection and Location Based on Improved SSD for Space Human-Robot Interaction. Lecture Notes in Computer Science, 2018, , 164-175.	1.0	3
88	On the Interface Shearing Behavior Between Granular Soil and Artificial Rough Surfaces. Springer Series in Geomechanics and Geoengineering, 2017, , 437-444.	0.0	2
89	Development of a novel large stroke 2-DOF micromanipulator for micro/nano manipulation. Microsystem Technologies, 2017, 23, 2993-3003.	1.2	29
90	Analytical solution of a hyperbolic partial differential equation and its application. International Journal of Intelligent Computing and Cybernetics, 2017, 10, 183-199.	1.6	3

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91	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.	2.5	31
92	Free-flying dynamics and control of an astronaut assistant robot based on fuzzy sliding mode algorithm. Acta Astronautica, 2017, 138, 462-474.	1.7	25
93	Interface Direct Shearing Behavior Between Soil and Saw-tooth Surfaces by DEM Simulation. Procedia Engineering, 2017, 175, 36-42.	1.2	25
94	Static Hand Gesture Recognition with Parallel CNNs for Space Human-Robot Interaction. Lecture Notes in Computer Science, 2017, , 462-473.	1.0	37
95	Development and visual servo control of an electromagnetic actuated micromanipulation system. , 2017, , .		1
96	Kinematics analysis of a four degree-of-freedom parallel manipulator. , 2017, , .		1
97	A large-stroke flexure fast tool servo with new displacement amplifier. , 2017, , .		7
98	Kinematic and workspace analyses of a 2-RRU&RSR parallel manipulator. , 2017, , .		0
99	A regularized on-line sequential extreme learning machine with forgetting property for fast dynamic hysteresis modeling. , 2017, , .		2
100	Design and Analysis of a New High Precision Decoupled XY Compact Parallel Micromanipulator. Micromachines, 2017, 8, 82.	1.4	29
101	Design and analysis of a 3-DOF planar micromanipulation stage with large rotational displacement for micromanipulation system. Mechanical Sciences, 2017, 8, 117-126.	0.5	37
102	Univariate Gaussian Model for Multimodal Inseparable Problems. Lecture Notes in Computer Science, 2017, , 612-623.	1.0	4
103	Kinematics Comparative Study of Two Overconstrained Parallel Manipulators. Mathematical Problems in Engineering, 2016, 2016, 1-12.	0.6	7
104	Attitude control for astronaut assisted robot in the space station. International Journal of Control, Automation and Systems, 2016, 14, 1082-1095.	1.6	22
105	Guaranteed cost synchronization of complex networks with uncertainties and timeâ€varying delays. Complexity, 2016, 21, 381-395.	0.9	14
106	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.	1.3	10
107	Optimized PID tracking control for piezoelectric actuators based on the Bouc-Wen model. , 2016, , .		13
108	Kinematic analysis and gait planning for a DARwIn-OP Humanoid Robot. , 2016, , .		3

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109	Design of Variable Stiffness Actuator Based on Modified Gear–Rack Mechanism. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	25
110	Smooth trajectory planning for a parallel manipulator with joint friction and jerk constraints. International Journal of Control, Automation and Systems, 2016, 14, 1022-1036.	1.6	29
111	Mobile robot autonomous path planning based on fuzzy logic and filter smoothing in dynamic environment. , 2016, , .		13
112	Comparative study of two 2-RPU+SPR parallel manipulators. , 2016, , .		1
113	Comparative stiffness analysis of two over-constrained manipulators. , 2016, , .		2
114	Kinematics analysis of a novel over-constrained three degree-of-freedom spatial parallel manipulator. Mechanism and Machine Theory, 2016, 104, 222-233.	2.7	36
115	synchronization of coupled reaction–diffusion neural networks with mixed delays. Complexity, 2016, 21, 42-53.	0.9	17
116	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.	1.9	38
117	Development of an Electromagnetic Actuated Microdisplacement Module. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1252-1261.	3.7	22
118	Design, analysis and simulation of a novel 3-DOF translational micromanipulator based on the PRB model. Mechanism and Machine Theory, 2016, 100, 235-258.	2.7	38
119	A Memetic Algorithm for Global Optimization of Multimodal Nonseparable Problems. IEEE Transactions on Cybernetics, 2016, 46, 1375-1387.	6.2	23
120	Control and synchronization of a hyperchaotic finance system via single controller scheme. International Journal of Intelligent Computing and Cybernetics, 2015, 8, 330-344.	1.6	8
121	Design of Control Strategy for a Novel Compliant Flexure-Based Microgripper With Two Jaws. , 2015, , .		3
122	Parallel and Cooperative Particle Swarm Optimizer for Multimodal Problems. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	4
123	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.	3.7	59
124	A novel kinematics analysis for a 5-DOF manipulator based on KUKA youBot. , 2015, , .		3
125	Dynamic analysis of a 3-DOF 3-PUU parallel manipulator based on the principle of virtual work. , 2015, , .		6
126	Workspace analysis for a 3-DOF compliant parallel mechanism based on SimMechanics. , 2015, , .		5

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127	Dynamic modeling for high-performance controller design of a UAV quadrotor. , 2015, , .		11
128	Design and analysis of a novel 3-D micromanipulator with large range of motion. , 2015, , .		0
129	Dynamic dexterity evaluation of a 3-DOF 3-PUU parallel manipulator based on generalized inertia matrix. , 2015, , .		3
130	Passivity-based synchronization of a new hyperchaotic Lorenz System. , 2015, , .		0
131	Minimum-Jerk Trajectory Planning of a 3-DOF Translational Parallel Manipulator. , 2015, , .		2
132	Feedforward nonlinear PID control of a novel micromanipulator using Preisach hysteresis compensator. Robotics and Computer-Integrated Manufacturing, 2015, 34, 124-132.	6.1	67
133	Dual-layer fuzzy control architecture for the CAS rover arm. International Journal of Control, Automation and Systems, 2015, 13, 1262-1271.	1.6	5
134	Controller design and experimental investigation of a 3-universal-prismatic-universal compliant manipulator for active vibration isolation. JVC/Journal of Vibration and Control, 2015, 21, 3218-3238.	1.5	8
135	Cooperative particle swarm optimizer with improved elimination mechanism for global optimization. , 2015, , .		1
136	Control system design and study for an automatic mobile robot. , 2015, , .		2
137	Kinematic analysis of a novel 3-CRU translational parallel mechanism. Mechanical Sciences, 2015, 6, 57-64.	0.5	23
138	Single state feedback stabilization of unified chaotic systems and circuit implementation. Open Physics, 2014, 13, .	0.8	2
139	Design and analysis of a two layered 3-RRR micro/nano manipulating stage. , 2014, , .		2
140	Computer control for IGBT based heat load system with rapid response and large heat flux. , 2014, , .		0
141	Model based sliding mode control for a 3-DOF translational micro parallel positioning stage. , 2014, , .		3
142	Trajectory tracking control for a nonholonomic mobile robot using an improved ILC. , 2014, , .		13
143	Cooperative particle swarm optimizer with elimination mechanism for global optimization of multimodal problems. , 2014, , .		6
144	Comparative study of two 3-CRU translational parallel manipulators. , 2014, , .		6

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145	Design and analysis of a spatial 2-RPU & SPR parallel manipulator with 1T2R-Type. , 2014, , .		6
146	Design, comparison and analysis of a novel 3-D decoupling micromanipulator with different numbers of S-joints. , 2014, , .		0
147	Dynamic simulation of the vibration isolation system for astronaut treadmill. , 2014, , .		0
148	Design and analysis of a decoupled XY micro compliant parallel manipulator. , 2014, , .		8
149	Visual Servo Feedback Control of a Novel Large Working Range Micro Manipulation System for Microassembly. Journal of Microelectromechanical Systems, 2014, 23, 181-190.	1.7	44
150	Optimal design and comparative analysis of a novel microgripper based on matrix method. , 2014, , .		4
151	Design, implementation and control of a small-scale UAV quadrotor. , 2014, , .		5
152	Kinematic analysis and performance evaluation of the 3-PUU parallel module of a 3D printing manipulator. , 2014, , .		2
153	A novel analytical model for flexure-based proportion compliant mechanisms. Precision Engineering, 2014, 38, 449-457.	1.8	39
154	Dynamics and control of a parallel mechanism for active vibration isolation in space station. Nonlinear Dynamics, 2014, 76, 1737-1751.	2.7	55
155	Development of a 2-DOF micro-motion stage based on lever amplifying mechanism. , 2014, , .		1
156	Development and control of a compact 3-DOF micromanipulator for high-precise positioning. , 2014, , .		9
157	Dimensional synthesis of a 3-DOF translational parallel manipulator considering kinematic dexterity property. , 2014, , .		3
158	Dynamics analysis of a novel over-constrained three-DOF parallel manipulator. , 2014, , .		9
159	Development and Active Disturbance Rejection Control of a Compliant Micro-/Nanopositioning Piezostage With Dual Mode. IEEE Transactions on Industrial Electronics, 2014, 61, 1475-1492.	5.2	138
160	Design, modeling, control and experiment for a 2-DOF compliant micro-motion stage. International Journal of Precision Engineering and Manufacturing, 2014, 15, 735-744.	1.1	67
161	Dynamic compensation and control for piezoelectric actuators based on the inverse Boucâ€"Wen model. Robotics and Computer-Integrated Manufacturing, 2014, 30, 47-54.	6.1	54
162	Design, Modeling, and Analysis of a Novel Microgripper Based on Flexure Hinges. Advances in Mechanical Engineering, 2014, 6, 947584.	0.8	9

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163	Distance measurement of zooming image for a mobile robot. International Journal of Control, Automation and Systems, 2013, 11, 782-789.	1.6	11
164	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.	3.2	161
165	Design of a new R-P compliant joint. , 2013, , .		0
166	Optimal Design, Fabrication, and Control of an XY Micropositioning Stage Driven by Electromagnetic Actuators. IEEE Transactions on Industrial Electronics, 2013, 60, 4613-4626.	5.2	99
167	Design and analysis of a 2-DOF micro-motion stage based on differential amplifier. , 2013, , .		3
168	Development and assessment of a novel hydraulic displacement amplifier for piezo-actuated large stroke precision positioning. , 2013, , .		9
169	Analysis of a compliant mechanism with leverage and closed-loop structure based on matrix dimension-reduce method. , 2013, , .		1
170	Orthogonal Experimental Design method used in Particle Swarm Optimization for multimodal problems. , 2013, , .		13
171	Adaptive nonlinear output-feedback dynamic surface control with unknown high-frequency gain sign. International Journal of Control, 2013, 86, 2203-2214.	1.2	13
172	Design, Analysis, and Test of a Novel 2-DOF Nanopositioning System Driven by Dual Mode. IEEE Transactions on Robotics, 2013, 29, 650-662.	7.3	117
173	Simulation and control of a two-wheeled self-balancing robot. , 2013, , .		31
174	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.	1.1	13
175	Optimal design of proportion compliant mechanisms with corner-filleted flexure hinges. , 2013, , .		0
176	Design of Large-Range XY Compliant Parallel Manipulators Based on Parasitic Motion Compensation. , 2013, , .		11
177	Realization of the flight control for an indoor UAV quadrotor. , 2013, , .		7
178	A novel flexure-based dual-arm robotic system for high-throughput biomanipulations on micro-fluidic chip. , 2013, , .		7
179	Sensor fault diagnosis method based on fractal dimension. , 2013, , .		0
180	Kinematics and workspace analysis for a novel 6-PSS parallel manipulator. , 2013, , .		5

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181	Development and implementation of a biomanipulation system with magnetic-driven microrobots. , 2013, , .		0
182	Development of a large working range flexure-based 3-DOF micro-parallel manipulator driven by electromagnetic actuators. , 2013, , .		18
183	Kinematics and interactive simulation system modeling for robot manipulators. , 2013, , .		6
184	A Novel Analytical Model for Flexure-based Proportion Compliant Mechanisms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 612-619.	0.4	1
185	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
186	New Yθ compliant micromanipulator with ultra-large workspace for biomanipulations. , 2013, , .		0
187	Optimal Design and Control Strategy of a Novel 2-DOF Micromanipulator. International Journal of Advanced Robotic Systems, 2013, 10, 162.	1.3	14
188	Design and Analysis of a Novel 3-DOF Large Stroke Micro-positioning Platform. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2013, 49, 48.	0.7	11
189	New empirical stiffness equations for corner-filleted flexure hinges. Mechanical Sciences, 2013, 4, 345-356.	0.5	32
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