

Bing Li

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184
papers

1,537
citations

20
h-index

31
g-index

250
ext. papers

2,035
ext. citations

2.6
avg, IF

5.15
L-index

#	Paper	IF	Citations
184	Design and Kinematic Modeling of In-Situ Torsionally-Steerable Flexible Surgical Robots. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1864-1871	4.2	0
183	Design and Experimental Validation of a Shock-Absorption Mechanism Inspired From the Frog's Forelimbs. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 2079-2085	4.2	
182	A Modular Lockable Mechanism for Tendon-Driven Robots: Design, Modeling and Characterization. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 2023-2030	4.2	2
181	Type synthesis of single-loop deployable mechanisms based on improved atlas method for single-DOF grasping manipulators. <i>Mechanism and Machine Theory</i> , 2022 , 169, 104656	4	2
180	Design of deployable curved-surface rigid origami flashers. <i>Mechanism and Machine Theory</i> , 2022 , 167, 104512	4	3
179	A Stability and Safety Control Method in Robot-Assisted Decompressive Laminectomy Considering Respiration and Deformation of Spine. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-13	4.9	0
178	Launching of a Cyborg Locust via Co-Contraction Control of Hindleg Muscles. <i>IEEE Transactions on Robotics</i> , 2022 , 1-12	6.5	2
177	A 5-DOF redundantly actuated parallel mechanism for large tilting five-face machining. <i>Mechanism and Machine Theory</i> , 2022 , 172, 104785	4	4
176	Design of a novel three-limb deployable mechanism with mobility bifurcation. <i>Mechanism and Machine Theory</i> , 2022 , 172, 104789	4	0
175	An Automatic Path Planning Method of Pedicle Screw Placement Based on Preoperative CT Images. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022 , 1-1	3.1	1
174	Coupled Force/Position Control for Dynamic Contact Force Tracking in Uncertain Environment. <i>Actuators</i> , 2022 , 11, 150	2.4	
173	The function of pitching in Beetle's flight revealed by insect-wearable backpack. <i>Biosensors and Bioelectronics</i> , 2021 , 198, 113818	11.8	0
172	Kinematic and Dynamic Analysis of a Novel 5-DOF Multi-fingered Deployable Robotic Gripper. <i>Lecture Notes in Computer Science</i> , 2021 , 415-424	0.9	
171	Design of a Compliant Joint Based on Antagonistic-Driven Torsion Springs. <i>Lecture Notes in Computer Science</i> , 2021 , 622-630	0.9	0
170	Thermal-Mechanical Coupling Analysis and Structural Optimization of a Deployable Grasping Manipulator. <i>Lecture Notes in Computer Science</i> , 2021 , 451-462	0.9	
169	Muscular stimulation based biological actuator from locust's hindleg 2021 ,		1
168	Design of Transformable Hinged Ori-Block Dissected from Cylinders and Cones. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2021 , 143,	3	4

167	Stability analysis and optimal enveloping grasp planning of a deployable robotic hand. <i>Mechanism and Machine Theory</i> , 2021 , 158, 104241	4	2
166	Hybrid Adaptive Control Strategy for Continuum Surgical Robot Under External Load. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1407-1414	4.2	10
165	A Lightweight Soft Gripper Driven by Self-Sensing Super-Coiled Polymer Actuator. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2775-2782	4.2	7
164	Study of Obstacle-Crossing and Pitch Control Characteristic of a Novel Jumping Robot. <i>Sensors</i> , 2021 , 21,	3.8	1
163	On the kinematics of forelimb landing of frog <i>Rana rugulosus</i> . <i>Journal of Biomechanics</i> , 2021 , 121, 110417.	3.9	0
162	A parallel learning particle swarm optimizer for inverse kinematics of robotic manipulator. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 6101-6132	8.4	5
161	Variable Admittance Control Based on Trajectory Prediction of Human Hand Motion for Physical Human-Robot Interaction. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5651	2.6	0
160	Type synthesis of plane-symmetric deployable grasping parallel mechanisms using constraint force parallelogram law. <i>Mechanism and Machine Theory</i> , 2021 , 161, 104330	4	7
159	Diffeomorphic respiratory motion estimation of thoracoabdominal organs for image-guided interventions. <i>Medical Physics</i> , 2021 , 48, 4160-4176	4.4	1
158	Impingement-assisted self-assembly of ferrofluid droplets under magnetic field. <i>Applied Physics Letters</i> , 2021 , 119, 041601	3.4	2
157	Automatic registration and precise tumour localization method for robot-assisted puncture procedure under inconsistent breath-holding conditions. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021 , 17, e2319	2.9	1
156	A fuzzy adaptive admittance controller for force tracking in an uncertain contact environment. <i>IET Control Theory and Applications</i> , 2021 , 15, 2158	2.5	1
155	Human-Robot Interaction Control for Robot Driven by Variable Stiffness Actuator With Force Self-Sensing. <i>IEEE Access</i> , 2021 , 9, 6696-6705	3.5	7
154	Design and Implementation of a Novel Variable Stiffness Actuator With Cam-Based Relocation Mechanism. <i>Journal of Mechanisms and Robotics</i> , 2021 , 13,	2.2	5
153	Feedback Altitude Control of a Flying Insect-Computer Hybrid Robot. <i>IEEE Transactions on Robotics</i> , 2021 , 1-11	6.5	4
152	Type synthesis of metamorphic mechanisms with scissor-like linkage based on different kinds of connecting pairs. <i>Mechanism and Machine Theory</i> , 2020 , 151, 103848	4	8
151	Model-Based Compensation of Moving Tissue for State Recognition in Robotic-Assisted Pedicle Drilling. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020 , 2, 463-473	3.1	2
150	Stiffness modeling of n(3RRIS) reconfigurable series-parallel manipulators by combining virtual joint method and matrix structural analysis. <i>Mechanism and Machine Theory</i> , 2020 , 152, 103960	4	9

149	Design and Optimize of a Novel Segmented Soft Pneumatic Actuator. <i>IEEE Access</i> , 2020 , 8, 122304-122313	3.5	5
148	Design and Analysis of a Novel Truss-Shaped Variable-Stiffness Deployable Robotic Grasper. <i>IEEE Access</i> , 2020 , 8, 112944-112956	3.5	1
147	A Truss-type Deployable Manipulator Actuated by Parallel Twisted and Coiled Nylon Fiber Actuator* 2020 ,		1
146	Mobility Analysis of Thin-Panel Origamis Based on a Coplanar 2-Twist Screw System. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2020 , 142,	3	1
145	Design, Development, and Analysis of a Hybrid Serial-Parallel Machine for Precision Polishing. <i>Precision Manufacturing</i> , 2020 , 1-35	0.1	
144	Design, Development, and Analysis of a Hybrid Serial-Parallel Machine for Precision Polishing. <i>Precision Manufacturing</i> , 2020 , 171-205	0.1	2
143	Soft Sensitive Skin for Safety Control of a Nursing Robot Using Proximity and Tactile Sensors. <i>IEEE Sensors Journal</i> , 2020 , 20, 3822-3830	4	25
142	Torque Estimation for Robotic Joint With Harmonic Reducer Based on Deformation Calibration. <i>IEEE Sensors Journal</i> , 2020 , 20, 991-1002	4	6
141	State recognition of decompressive laminectomy with multiple information in robot-assisted surgery. <i>Artificial Intelligence in Medicine</i> , 2020 , 102, 101763	7.4	6
140	Design and analysis of a cable-driven rigidflexible coupling parallel mechanism with variable stiffness. <i>Mechanism and Machine Theory</i> , 2020 , 153, 104030	4	6
139	Collision Detection and Coordinated Compliance Control for a Dual-Arm Robot Without Force/Torque Sensing Based on Momentum Observer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2261-2272	5.5	16
138	Design methodology of a novel variable stiffness actuator based on antagonistic-driven mechanism. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 6967-6984	1.3	6
137	Deployment Dynamics of Large Space Antenna and Supporting Arms. <i>IEEE Access</i> , 2019 , 7, 69922-69935	3.5	5
136	Design of a truss-shaped deployable grasping mechanism using mobility bifurcation. <i>Mechanism and Machine Theory</i> , 2019 , 139, 346-358	4	13
135	Actuation distribution and workspace analysis of a novel 3(3RRIS) metamorphic serial-parallel manipulator for grasping space non-cooperative targets. <i>Mechanism and Machine Theory</i> , 2019 , 139, 424-442	4.42	11
134	Design, analysis and control of a novel deployable grasping manipulator. <i>Mechanism and Machine Theory</i> , 2019 , 138, 182-204	4	15
133	Design, analysis, and performance verification of a water jet thruster for amphibious jumping robot. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 5431-5447	1.3	5
132	Dynamic Modeling and Control for a Deployable Grasping Manipulator. <i>IEEE Access</i> , 2019 , 7, 23000-23011	3.5	9

131	Correction to Dynamic Modeling and Control for a Deployable Grasping Manipulator <i>IEEE Access</i> , 2019 , 7, 46135-46135	3.5	
130	Model-based spinal deformation compensation in robot-assisted decompressive laminectomy. <i>Mechatronics</i> , 2019 , 59, 115-126	3	3
129	Singularity Avoidance for a Deployable Mechanism Using Elastic Joints. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019 , 141,	3	6
128	A Transformation Method to Generate the Workspace of an n(3RRS) SerialParallel Manipulator. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019 , 141,	3	3
127	Design of Large Single-Mobility Surface-Deployable Mechanism Using Irregularly Shaped Triangular Prismoid Modules. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019 , 141,	3	14
126	Design and analysis of a cable-driven multistage orderly deployable/retractable space telescopic boom. <i>Mechanisms and Machine Science</i> , 2019 , 2299-2308	0.3	
125	Design and Analysis of a High-Payload Manipulator Based on a Cable-Driven Serial-Parallel Mechanism. <i>Journal of Mechanisms and Robotics</i> , 2019 , 11,	2.2	9
124	Robust Adaptive Force Tracking Impedance Control for Robotic Capturing of Unknown Objects. <i>Lecture Notes in Computer Science</i> , 2019 , 677-688	0.9	1
123	A Complete, Continuous, and Minimal Product of Exponentials-Based Model for Five-Axis Machine Tools Calibration With a Single Laser Tracker, an R-Test, or a Double Ball-Bar. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	6
122	Design and Analysis of a Novel Deployable Robotic Grasper 2019 ,		1
121	Trajectory Optimization and Force Control with Modified Dynamic Movement Primitives under Curved Surface Constraints* 2019 ,		3
120	Finite element analysis for fatigue behaviour of a self-expanding Nitinol peripheral stent under physiological biomechanical conditions. <i>Computers in Biology and Medicine</i> , 2019 , 104, 205-214	7	14
119	Coordinated control of a dual-arm robot for surgical instrument sorting tasks. <i>Robotics and Autonomous Systems</i> , 2019 , 112, 1-12	3.5	11
118	Robot-Assisted Decompressive Laminectomy Planning Based on 3D Medical Image. <i>IEEE Access</i> , 2018 , 6, 22557-22569	3.5	20
117	Wheeled hopping robot with combustion-powered actuator. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 172988141774560	1.4	8
116	Influence of SiC surface defects on materials removal in atmospheric pressure plasma polishing. <i>Computational Materials Science</i> , 2018 , 146, 26-35	3.2	11
115	Design and Kinematic Analysis of a 3RRIS Metamorphic Parallel Mechanism for Large-Scale Reconfigurable Space Multifingered Hand. <i>Journal of Mechanisms and Robotics</i> , 2018 , 10,	2.2	20
114	Synthesis of a novel type of metamorphic mechanism module for large scale deployable grasping manipulators. <i>Mechanism and Machine Theory</i> , 2018 , 128, 544-559	4	20

113	Safety Tracking Motion Control Based on Forbidden Virtual Fixtures in Robot Assisted Nasal Surgery. <i>IEEE Access</i> , 2018 , 6, 44905-44916	3.5	3
112	Design of a Sliding Morphing Skin with Segmented Rigid Panels. <i>Journal of Aircraft</i> , 2018 , 55, 1985-1994	1.6	2
111	Deterministic removal of atmospheric pressure plasma polishing based on the Lucy-Richardson algorithm. <i>Machining Science and Technology</i> , 2018 , 22, 953-967	2	2
110	Modular dynamic modeling and analysis of planar closed-loop mechanisms with clearance joints and flexible links. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017 , 231, 522-540	1.3	6
109	Large deployable network constructed by Altmann linkages. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017 , 231, 341-355	1.3	5
108	Design and Mobility Analysis of Large Deployable Mechanisms Based on Plane-Symmetric Bricard Linkage. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2017 , 139,	3	46
107	Stiffness modeling and optimization of a 3-DOF parallel robot in a serial-parallel polishing machine. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017 , 18, 497-507	1.7	16
106	A Novel Dual-Parallelogram Passive Rocking Vibration Isolator: A Theoretical Investigation and Experiment. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 367	2.6	2
105	Modelling and application of particle distribution for atmospheric plasma excitation. <i>International Journal of Nanomanufacturing</i> , 2017 , 13, 43	0.7	2
104	Precise robust adaptive dynamic surface control of permanent magnet synchronous motor based on extended state observer. <i>IET Science, Measurement and Technology</i> , 2017 , 11, 590-599	1.5	16
103	Kinematics analysis of a hybrid manipulator for computer controlled ultra-precision freeform polishing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 44, 44-56	9.2	38
102	Dynamic analysis of a linear Delta robot in hybrid polishing machine based on the principle of virtual work 2017 ,		1
101	Analysis of an underactuated biomimetic octopus hand for grasping space non-cooperative objects 2017 ,		1
100	Mobile Robot with Multiple Modes Based on 4-URU Parallel Mechanism. <i>Mechanisms and Machine Science</i> , 2017 , 399-407	0.3	2
99	Advanced Parallel Robot with Extended RSUR Kinematic for a Circulating Working Principle. <i>Lecture Notes in Computer Science</i> , 2017 , 405-416	0.9	
98	Dynamic analysis of planar mechanisms with revolute clearance joints based on two evaluation indices. <i>Mechanics Based Design of Structures and Machines</i> , 2016 , 44, 231-249	1.7	15
97	Mobility Analysis of Symmetric Deployable Mechanisms Involved in a Coplanar 2-Twist Screw System. <i>Journal of Mechanisms and Robotics</i> , 2016 , 8,	2.2	13
96	Type synthesis to design variable camber mechanisms. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401666600	1.1	1

95	Modelling and optimisation of a five dimensional vibration isolator. <i>International Journal of Materials and Product Technology</i> , 2016 , 53, 171	1	2
94	Mobility analysis of a family of one-dimensional deployable mechanisms based on Sarrus mechanism 2016 ,		1
93	Dynamic modeling and control for a five-dimensional hybrid vibration isolator based on a position/orientation decoupled parallel mechanism. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 3368-3383	2	4
92	Kinematics and cooperative control of a robotic spinal surgery system. <i>Robotica</i> , 2016 , 34, 226-242	2.1	7
91	Singularity Analysis and Avoidance for Robot Manipulators With Nonspherical Wrists. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 277-290	8.9	52
90	Modeling and analysis of deployment dynamics for a novel ring mechanism. <i>Acta Astronautica</i> , 2016 , 120, 59-74	2.9	23
89	Modeling and Design on Modular Deployable Antenna. <i>Mechanisms and Machine Science</i> , 2016 , 1037-1048	3	1
88	Modeling and Design on Trailing Edge of Morphing Wing. <i>Mechanisms and Machine Science</i> , 2016 , 495-503	3	
87	A New Family of Bricard-Derived Deployable Mechanisms. <i>Journal of Mechanisms and Robotics</i> , 2016 , 8,	2.2	21
86	Study on Influence of Silicon Crystal Dislocation on Removal in Atmospheric Pressure Plasma Polishing. <i>Materials Science Forum</i> , 2016 , 878, 83-88	0.4	3
85	A Bone Milling Robot for Spinal Surgery1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	2
84	2016 ,		1
83	Gait planning for a multi-motion mode wheel-legged hexapod robot 2016 ,		2
82	An improved ACO algorithm for mobile robot path planning 2016 ,		3
81	A New Parallel External Fixator Design for Correcting Ankle and Foot Sagittal Plane Deformities1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
80	Analysis and optimization of a camber morphing wing model. <i>International Journal of Advanced Robotic Systems</i> , 2016 , 13, 172988141666484	1.4	1
79	Fault tolerance kinematics and trajectory planning of a 6-DOF space manipulator under a single joint failure 2016 ,		2
78	A large ring deployable mechanism for space satellite antenna. <i>Aerospace Science and Technology</i> , 2016 , 58, 498-510	4.9	46

77	The Effect of Area Contact on the Static Performance of Multileaf Foil Bearings. <i>Tribology Transactions</i> , 2015 , 58, 592-601	1.8	8
76	Development of a remote-controlled mobile robot with binocular vision for environment monitoring 2015 ,		1
75	Distributed Containment Control for Multiple Unknown Second-Order Nonlinear Systems With Application to Networked Lagrangian Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 1885-99	10.3	98
74	Design of joint servo control system based on FPGA 2015 ,		1
73	Mechanical drilling of PCB micro hole and its application in micro ultrasonic powder molding. <i>Circuit World</i> , 2015 , 41, 87-94	0.7	8
72	Multi-feature based high-speed ball shape target tracking 2015 ,		5
71	Modeling and analysis of a large deployable antenna structure. <i>Acta Astronautica</i> , 2014 , 95, 51-60	2.9	41
70	Safety analysis and control of a robotic spinal surgical system. <i>Mechatronics</i> , 2014 , 24, 55-65	3	16
69	Path planning of mechanical polishing process for freeform surface with a small polishing tool. <i>Robotics and Biomimetics</i> , 2014 , 1,		11
68	Micro ultrasonic powder molding for semi-crystalline polymers. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 045014	2	13
67	Hydrodynamic analysis of multileaf gas foil bearing with backing springs. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014 , 228, 529-547	1.4	9
66	Static Performance Analysis of Foil Thrust Bearing Based on Thin Plate Theory. <i>Key Engineering Materials</i> , 2014 , 621, 437-442	0.4	
65	The Noise Characteristics Research in Subway Cars. <i>Advanced Materials Research</i> , 2014 , 1051, 431-434	0.5	
64	Improvement of plasma jet in atmospheric pressure plasma polishing. <i>International Journal of Manufacturing Research</i> , 2014 , 9, 245	0.4	2
63	2014 ,		3
62	Design and constant force control of a parallel polishing machine 2014 ,		6
61	Analysis and Optimization of a Vibration Isolation Platform Based on 6-DOF Parallel Mechanism. <i>Key Engineering Materials</i> , 2014 , 625, 748-753	0.4	2
60	Stiffness Modeling and Optimization Analysis of a Novel 6-DOF Collaborative Parallel Manipulator. <i>Lecture Notes in Computer Science</i> , 2014 , 60-71	0.9	0

59	Analysis on formation mechanism of ultra-smooth surfaces in atmospheric pressure plasma polishing. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 65, 1239-1245	3.2	7
58	Design and optimization of large deployable mechanism constructed by Myard linkages. <i>CEAS Space Journal</i> , 2013 , 5, 147-155	1.2	29
57	Fast vision-based pose estimation iterative algorithm. <i>Optik</i> , 2013 , 124, 1116-1121	2.5	9
56	H∞ consensus and synchronization of nonlinear systems based on a novel fuzzy model. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 2157-69	10.2	86
55	Containment control for networked unknown Lagrangian systems with multiple dynamic leaders under a directed graph 2013 ,		1
54	Randomized multi-objective optimal design of a novel deployable truss. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2013 , 227, 1720-1736	0.9	5
53	Analysis and Simulation of Deployable Modularized Truss Mechanisms. <i>Key Engineering Materials</i> , 2013 , 572, 429-432	0.4	
52	Analysis and Optimal Design of a Spherical Parallel Manipulator with Three Rotational Degrees of Freedom. <i>Communications in Computer and Information Science</i> , 2013 , 71-81	0.3	
51	The Vibration Modeling and Analysis of Stewart Platform-Based Machine Tool. <i>Key Engineering Materials</i> , 2013 , 572, 421-424	0.4	
50	Micro UHMW-PE column array molded by the utilization of PCB as mold insert. <i>Circuit World</i> , 2013 , 39, 95-101	0.7	8
49	Design and Analysis of a Novel 5 Dimensional Active Vibration Isolator with Parallel Mechanism. <i>Key Engineering Materials</i> , 2013 , 572, 425-428	0.4	
48	Semi-active control for a multi-dimensional vibration isolator with parallel mechanism. <i>JVC/Journal of Vibration and Control</i> , 2013 , 19, 879-888	2	10
47	Modelling and Control of Inverse Dynamics for a 5-DOF Parallel Kinematic Polishing Machine. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 314	1.4	9
46	Virtual Chain Approach for Mobility Analysis of Multiloop Deployable Mechanisms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013 , 135,	3	18
45	Topography-Selective Removal of Atmospheric Pressure Plasma Polishing. <i>Lecture Notes in Mechanical Engineering</i> , 2013 , 537-545	0.4	
44	A 6-DOF adaptive parallel manipulator with large tilting capacity. <i>Robotics and Computer-Integrated Manufacturing</i> , 2012 , 28, 275-283	9.2	9
43	Modeling and analysis of a multi-dimensional vibration isolator based on the parallel mechanism. <i>Journal of Manufacturing Systems</i> , 2012 , 31, 50-58	9.1	18
42	Modeling and representation of a computer-aided conceptual design system. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 3515-3524	1.6	2

41	Kinematics and Dexterity Analysis for a Novel Hybrid Kinematic Machine. <i>Key Engineering Materials</i> , 2012 , 516, 420-425	0.4	
40	Conceptual design and workspace analysis of reconfigurable fixturing robots for sheet metal assembly. <i>Assembly Automation</i> , 2012 , 32, 293-299	2.1	8
39	Mobile Assemblies of Large Deployable Mechanisms. <i>Journal of Space Engineering</i> , 2012 , 5, 1-14		32
38	Surface Quality Improvement of Atmospheric Pressure Plasma Polishing (APPP) in Machining of Silicon Ultra-Smooth Surfaces. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012 , 6, 464-471	0.6	1
37	A Novel Surface Deployable Antenna Structure Based on Special Form of Bricard Linkages 2012 , 783-792		6
36	Analysis and Synthesis of a Kind of Mobility Reconfigurable Robot with Multi-Task Capability. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2011 , 5, 87-102	0.6	6
35	A Piecewise Acceleration-Optimal and Smooth-Jerk Trajectory Planning Method for Robot Manipulator along a Predefined Path. <i>International Journal of Advanced Robotic Systems</i> , 2011 , 8, 50	1.4	8
34	A universal on-orbit servicing system used in the geostationary orbit. <i>Advances in Space Research</i> , 2011 , 48, 95-119	2.4	76
33	Conceptual design and analysis of the 2T1R mechanism for a cooking robot. <i>Robotics and Autonomous Systems</i> , 2011 , 59, 74-83	3.5	9
32	Numerical simulations of motion behaviors of pan mechanism in a cooking robot with granular cuisine. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 803-808	1.6	3
31	Dynamic Modeling of the Capture Process of Snare Space Grapple Device. <i>Advanced Materials Research</i> , 2011 , 217-218, 1093-1097	0.5	
30	Parametric Optimization for a Tapered Deployable Mast in an Integrated Design Environment. <i>Advanced Materials Research</i> , 2011 , 346, 426-432	0.5	2
29	Design of Large Deployable Networks Constructed by Myard Linkages. <i>Key Engineering Materials</i> , 2011 , 486, 291-296	0.4	6
28	Synthesis of Deployable/Foldable Single Loop Mechanisms With Revolute Joints. <i>Journal of Mechanisms and Robotics</i> , 2011 , 3,	2.2	45
27	Expert-System-Based Design of Large Networks of Deployable Mechanisms. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 259-262	0.2	
26	Design and Analysis of a Tapered Deployable Mast. <i>Key Engineering Materials</i> , 2010 , 450, 31-34	0.4	2
25	2010 ,		6
24	An Integrated Fuzzy Multi-Attribute Decision-Making Methodology for Evaluation of Mechanical Product. <i>Key Engineering Materials</i> , 2010 , 450, 534-538	0.4	

23	Parametric Optimal Design of Robot End-Effector Tool for Robot-Assisted Automatic Polishing System. <i>Key Engineering Materials</i> , 2010 , 450, 333-336	0.4	
22	Variation Analysis and Robust Fixture Design of a Flexible Fixturing System for Sheet Metal Assembly. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010 , 132,	3.3	11
21	The cooperated MPPT control of stand-alone PV Power generation system 2010 ,		4
20	Dynamic Modeling and Performance Analysis of a 3-DOF Pan Mechanism for a Cooking Robot#. <i>Mechanics Based Design of Structures and Machines</i> , 2010 , 38, 243-260	1.7	10
19	Stiffness modeling of a family of 6-DoF parallel mechanisms with three limbs based on screw theory. <i>Journal of Mechanical Science and Technology</i> , 2010 , 24, 373-382	1.6	11
18	Dynamic analysis and robust reliability design of pan mechanism for a cooking robot 2009 ,		2
17	Quality design of tolerance allocation for sheet metal assembly with resistance spot weld. <i>International Journal of Production Research</i> , 2009 , 47, 1695-1711	7.8	7
16	Development of motion type reconfigurable modular robot for multi-task application 2009 ,		3
15	Research of Quick-Return Mechanisms Using for Automatic Cooking Robot. <i>Materials Science Forum</i> , 2009 , 626-627, 435-440	0.4	1
14	Geometrical method to determine the reciprocal screws and applications to parallel manipulators. <i>Robotica</i> , 2009 , 27, 929-940	2.1	31
13	A spherical hopping robot for exploration in complex environments 2009 ,		12
12	Kinematics analysis of a novel parallel platform with passive constraint chain. <i>International Journal of Design Engineering</i> , 2008 , 1, 316	0.5	3
11	A comparative study on quality design of fixture planning for sheet metal assembly. <i>Journal of Engineering Design</i> , 2008 , 19, 1-13	1.8	8
10	Analysis and simulation for a parallel drill point grinder. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 31, 915-925	3.2	5
9	Quality design of fixture planning for sheet metal assembly. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 32, 690-697	3.2	20
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7	Analysis of Kinematics and Dynamics for a Novel Hybrid Kinematics Machine. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2007 , 1, 58-69	0.6	6
6	Dynamic Modeling and Design for the Parallel Mechanism of a Hybrid Type Parallel Kinematic Machine. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2007 , 1, 481-492	0.6	2

5	Synthesis and Analysis of 4-DOF Parallel Manipulator with Passive Subchain. <i>Materials Science Forum</i> , 2006 , 532-533, 677-680	0.4	1
4	Analysis and simulation for a parallel drill point grinder. <i>International Journal of Advanced Manufacturing Technology</i> , 2006 , 30, 221-226	3.2	5
3	Robust Fixture Configuration Design for Sheet Metal Assembly With Laser Welding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2003 , 125, 120-127	3.3	22
2	Tolerance Allocation of Sheet Metal Assembly Using a Finite Element Model. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2002 , 45, 258-266		3
1	A snake-inspired swallowing robot based on Hoberman's linkages. <i>Journal of Mechanisms and Robotics</i> , 1-17	2.2	0