Xianwen Kong

List of Publications by Year in descending order

168 papers	3,437 citations	172457 29 h-index	168389 53 g-index
175 all docs	175 docs citations	175 times ranked	901 citing authors

#	Article	IF	Citations
1	Structure Synthesis and Reconfiguration Analysis of Variable-Degree-of-Freedom Single-Loop Mechanisms With Prismatic Joints Using Dual Quaternions. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	8
2	Motion/structure mode analysis and classification of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e260" altimg="si144.svg"><mml:mi>n</mml:mi></mml:math>-RR planar parallelogram mechanisms. Mechanism and Machine Theory, 2022, 169, 104623.	4.5	1
3	Design of Deployable Mechanisms Based on Wren Parallel Mechanism Units. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	14
4	A Compact Mirror-Symmetrical XY Compliant Parallel Manipulator for Minimizing Parasitic Rotations. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	6
5	Representation of planar kinematic chains with multiple joints based on a modified graph and isomorphism identification. Mechanism and Machine Theory, 2022, 172, 104793.	4.5	3
6	Classification of 3-Degree-of-Freedom 3-UPU Translational Parallel Mechanisms Based on Constraint Singularity Loci Using GrÃ¶bner Cover. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	3
7	A multiple-mode mechanism composed of four antiparallelogram units and four revolute joints. Mechanism and Machine Theory, 2021, 155, 104106.	4.5	4
8	Synthesis of multi-mode single-loop Bennett-based mechanisms using factorization of motion polynomials. Mechanism and Machine Theory, 2021, 155, 104110.	4.5	11
9	Kinematic Type. , 2021, , 1-5.		0
10	On the Performance Analyses of a Modified Force Field Algorithm for Obstacle Avoidance in Swarm Robotics. Communications in Computer and Information Science, 2021, , 111-122.	0.5	0
11	Classification of a 3-RER Parallel Manipulator Based on the Type and Number of Operation Modes. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	2
12	Variable Degree-of-Freedom Spatial Mechanisms Composed of Four Circular Translation Joints. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	2
13	On the Performance Analyses of a Modified Force Field Algorithm and Neural Network Approach for Obstacle Avoidance in Swarm Robotics. SN Computer Science, 2021, 2, 1.	3.6	0
14	Design of a train cleaning robot for the train carriage interior. Procedia CIRP, 2021, 100, 804-809.	1.9	3
15	Multi-Loop Rover: A Kind of Modular Rolling Robot Constructed by Multi-Loop Linkages. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	1
16	Kinematics analysis of a novel 2R1T 3-PUU parallel mechanism with multiple rotation centers. Mechanism and Machine Theory, 2020, 152, 103938.	4.5	6
17	Type synthesis of multi-mode mobile parallel mechanisms based on refined virtual chain approach. Mechanism and Machine Theory, 2020, 152, 103908.	4.5	12
18	Constraint and Mobility Change Analysis of Rubikâ€™s Cube-inspired Reconfigurable Joints and Corresponding Parallel Mechanisms. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	3.7	35

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19	Operation mode analysis of lower-mobility parallel mechanisms based on dual quaternions. Mechanism and Machine Theory, 2019, 142, 103577.	4.5	8
20	A Novel Method for Constructing Multimode Deployable Polyhedron Mechanisms Using Symmetric Spatial Compositional Units. Journal of Mechanisms and Robotics, 2019, 11, .	2.2	13
21	Reconfiguration Analysis of a 3-DOF Parallel Mechanism. Robotics, 2019, 8, 66.	3.5	1
22	Operation mode analysis of a 4-DOF n-RER parallel manipulator with three operation modes. Mechanisms and Machine Science, 2019, , 2531-2537.	0.5	0
23	A geometric approach to the static balancing of mechanisms constructed using spherical kinematic chain units. Mechanism and Machine Theory, 2019, 140, 305-320.	4.5	15
24	A Double-Faced 6R Single-Loop Overconstrained Spatial Mechanism. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	4
25	CGA-Based approach to direct kinematics of parallel mechanisms with the 3-RS structure. Mechanism and Machine Theory, 2018, 124, 162-178.	4.5	11
26	Deployable polyhedron mechanisms constructed by connecting spatial single-loop linkages of different types and/or in different sizes using S joints. Mechanism and Machine Theory, 2018, 124, 211-225.	4.5	36
27	Kinematics, Workspace, and Singularity Analysis of a Parallel Robot With Five Operation Modes. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	22
28	On a simplified nonlinear analytical model for the characterisation and design optimisation of a compliant XY micro-motion stage. Robotics and Computer-Integrated Manufacturing, 2018, 49, 66-76.	9.9	31
29	Deployable mechanisms constructed by connecting orthogonal Bricard linkages, 8R or 10R single-loop linkages using S joints. Mechanism and Machine Theory, 2018, 120, 178-191.	4.5	49
30	A variable-DOF single-loop 7R spatial mechanism with five motion modes. Mechanism and Machine Theory, 2018, 120, 239-249.	4.5	31
31	A Novel Method for Constructing Multi-Mode Deployable Polyhedron Mechanisms Using Symmetric Spatial RRR Compositional Units. , 2018, , .		3
32	A Single-Loop 7R Spatial Mechanism That Has Three Motion Modes With the Same Instantaneous DOF but Different Finite DOF. , 2018, , .		3
33	Type Synthesis of 3-RSR Equivalent 2R1T Parallel Mechanisms. , 2018, , .		2
34	Reconfiguration Analysis of an RRRRS Single-Loop Mechanism. Robotics, 2018, 7, 51.	3.5	1
35	Reconfiguration Analysis of a Variable Degrees-of-freedom Multi-mode Parallel Manipulator. , 2018, , .		0
36	A reconfigurable tri-prism mobile robot with eight modes. Robotica, 2018, 36, 1454-1476.	1.9	13

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37	Type Synthesis of Parallel Mechanisms With a Constant Jacobian Matrix. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	8
38	Material Handling System for a Hybrid Machine. , 2018, , 215-237.		1
39	A reconfigurable multi-mode mobile parallel robot. Mechanism and Machine Theory, 2017, 111, 39-65.	4.5	39
40	Kinematic Analysis and Dimensional Synthesis of a Meso-Gripper. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	13
41	Standing on the shoulders of giants: A brief note from the perspective of kinematics. Chinese Journal of Mechanical Engineering (English Edition), 2017, 30, 1-2.	3.7	38
42	Identification and Comparison for Continuous Motion Characteristics of Three Two-Degree-of-Freedom Pointing Mechanisms. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	3
43	Reconfiguration Analysis of Multimode Single-Loop Spatial Mechanisms Using Dual Quaternions. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	32
44	A 6R Single-Loop Overconstrained Spatial Mechanism That Has Two Pairs of Revolute Joints With Intersecting Axes and One Pair of Revolute Joints With Parallel Axes. , 2017, , .		4
45	Reconfigurable deployable polyhedral mechanism based on extended parallelogram mechanism. Mechanism and Machine Theory, 2017, 116, 467-480.	4.5	32
46	Single-Loop Foldable 8R Mechanisms with Multiple Modes. Mechanisms and Machine Science, 2017, , 503-510.	0.5	5
47	Algebraic Analysis of a New Variable-DOF 7R Mechanism. Mechanisms and Machine Science, 2017, , 71-79.	0.5	3
48	Kinematics, Workspace and Singularity Analysis of a Multi-Mode Parallel Robot. , 2017, , .		3
49	Biped 4-UPU Parallel Mechanism. , 2017, , .		0
50	Design, Fabrication and Testing of a Dual-Range XY Micro-Motion Stage Driven by Voice Coil Actuators. Advances in Science, Technology and Engineering Systems, 2017, 2, 498-504.	0.5	1
51	Reconfiguration Analysis of a Variable Degrees-of-Freedom Parallel Manipulator With Both 3-DOF Planar and 4-DOF 3T1R Operation Modes. , 2016, , .		3
52	Reconfiguration Analysis of a Two Degrees-of-Freedom 3-4R Parallel Manipulator With Planar Base and Platform1. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	15
53	Kinematic Analysis of Conventional and Multi-Mode Spatial Mechanisms Using Dual Quaternions. , 2016, , .		4
54	Design, fabrication and testing of a hybrid micro-motion XY stage driven by voice coil actuators. , 2016, , .		1

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55	A Comparative Study on Motion Characteristics of Three Two-Degree-of-Freedom Pointing Mechanisms. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	12
56	A class of reconfigurable deployable platonic mechanisms. Mechanism and Machine Theory, 2016, 105, 409-427.	4.5	44
57	Geometric construction and kinematic analysis of a 6R single-loop overconstrained spatial mechanism that has three pairs of revolute joints with intersecting joint axes. Mechanism and Machine Theory, 2016, 102, 196-202.	4.5	14
58	Comments on â€œDesign and analysis of a new compliant XY micropositioning stage based on Roberts mechanismâ€•[Mechanism and Machine Theory 95 (2016) 125â€“139]. Mechanism and Machine Theory, 2016, 100, 368-369.	4.5	0
59	Determination of the Workspace of a Three-Degrees-of-Freedom Parallel Manipulator Using a Three-Dimensional Computer-Aided-Design Software Package and the Concept of Virtual Chains1. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	9
60	Design and Analysis of a New 7R Single-Loop Mechanism with 4R, 6R and 7R Operation Modes. Mechanisms and Machine Science, 2016, , 27-37.	0.5	4
61	Reconfiguration analysis of a 4-DOF 3-RER parallel manipulator with equilateral triangular base and moving platform. Mechanism and Machine Theory, 2016, 98, 180-189.	4.5	24
62	A rolling mechanism with two modes of planar and spherical linkages. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2110-2123.	2.1	6
63	Type Synthesis of 3-DOF multi-mode translational/spherical parallel mechanisms with lockable joints. Mechanism and Machine Theory, 2016, 96, 323-333.	4.5	51
64	A Two-Fingered Anthropomorphic Robotic Hand with Contact-Aided Cross Four-Bar Mechanisms as Finger Joints. Lecture Notes in Computer Science, 2016, , 28-39.	1.3	8
65	A structure design method for compliant parallel manipulators with actuation isolation. Mechanical Sciences, 2016, 7, 247-253.	1.0	18
66	Kinematic Analysis of a Mechanism With Dual Remote Centre of Motion and its Potential Application. , 2015, , .		4
67	Analysis and characterisation of a kinematically decoupled compliant XY stage. , 2015, , .		2
68	Design of compliant parallel grippers using the position space concept for manipulating sub-millimeter objects. , 2015, , .		2
69	Type Synthesis of Two-Degrees-of-Freedom 3-4R Parallel Mechanisms With Both Spherical Translation Mode and Sphere-on-Sphere Rolling Mode. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	26
70	Type Synthesis of Three-Degree-of-Freedom Translational Compliant Parallel Mechanisms. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	4
71	Axode Characteristic of 4-4R Parallel Pointing Mechanism. , 2015, , .		1
72	Reconfiguration Analysis of a 2-DOF 3-4R Parallel Manipulator With Planar Base and Platform. , 2015, , .		2

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73	Kinematic analysis of a 6R single-loop overconstrained spatial mechanism for circular translation. Mechanism and Machine Theory, 2015, 93, 163-174.	4.5	10
74	Type synthesis and reconfiguration analysis of a class of variable-DOF single-loop mechanisms. Mechanism and Machine Theory, 2015, 85, 116-128.	4.5	69
75	Conceptual design of compliant translational joints for high-precision applications. Frontiers of Mechanical Engineering, 2014, 9, 331-343.	4.3	25
76	A planar reconfigurable linear rigid-body motion linkage with two operation modes. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2985-2991.	2.1	3
77	A Family of Rotational Parallel Manipulators With Equal-Diameter Spherical Pure Rotation. Journal of Mechanisms and Robotics, 2014, 6, .	2.2	19
78	Type Synthesis of Single-Loop Overconstrained 6R Spatial Mechanisms for Circular Translation. Journal of Mechanisms and Robotics, 2014, 6, .	2.2	18
79	Comparison Study on Motion Characteristics of Three 2-DOF Pointing Devices. , 2014, , .		1
80	A novel robotic assistive device for stroke-rehabilitation. , 2014, , .		3
81	Kinematic analysis of a single-loop reconfigurable 7R mechanism with multiple operation modes. Robotica, 2014, 32, 1171-1188.	1.9	33
82	Design of Constant-Velocity Transmission Devices Using Parallel Kinematics Principle. , 2014, , .		1
83	Complete kinematic analysis of single-loop multiple-mode 7-link mechanisms based on Bennett and overconstrained RPRP mechanisms. Mechanism and Machine Theory, 2014, 73, 117-129.	4.5	20
84	Reconfiguration analysis of a 3-DOF parallel mechanism using Euler parameter quaternions and algebraic geometry method. Mechanism and Machine Theory, 2014, 74, 188-201.	4.5	93
85	Biped walking robot based on a 2-UPU+2-UU parallel mechanism. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 269-278.	3.7	9
86	Nonlinear analytical modeling and characteristic analysis of symmetrical wire beam based composite compliant parallel modules for planar motion. Mechanism and Machine Theory, 2014, 77, 122-147.	4.5	11
87	Block Adjacency Matrix Method for Analyzing the Configuration Transformations of Metamorphic Parallel Mechanisms. , 2014, , .		0
88	Development of a Low-Cost Underactuated and Self-Adaptive Robotic Hand. , 2014, , .		1
89	Classification of Screw Systems Composed of Three Planar Pencils of Lines for Singularity Analysis of Parallel Mechanisms1. Journal of Mechanisms and Robotics, 2014, 6, .	2.2	7
90	Type Synthesis of 2-DOF 3-4R Parallel Mechanisms With Both Spatial Parallelogram Translational Mode and Equal-Diameter Spherical Rotation Mode. , 2014, , .		1

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91	A Novel Synthesis Method of Polygon-Scaling Mechanisms. , 2014, , .		3
92	Kinematic and Dynamic Modeling of a Parallel Manipulator with Eight Actuation Modes. Mechanisms and Machine Science, 2014, , 315-329.	0.5	2
93	A rolling 3-UPU parallel mechanism. Frontiers of Mechanical Engineering, 2013, 8, 340-349.	4.3	8
94	A normalization-based approach to the mobility analysis of spatial compliant multi-beam modules. Mechanism and Machine Theory, 2013, 59, 1-19.	4.5	58
95	Type Synthesis of 2-DOF Rotational Parallel Manipulators With an Equal-Diameter Spherical Pure Rolling Motion. , 2013, , .		1
96	Determination of the Workspace of Parallel Manipulators Using a CAD Software and the Concept of Virtual Chains. , 2013, , .		0
97	Type Synthesis of 3-DOF Parallel Manipulators With Both a Planar Operation Mode and a Spatial Translational Operation Mode1. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	82
98	Type Synthesis of Kinematically Redundant 3T1R Parallel Manipulators. , 2013, , .		1
99	Type Synthesis of 3-DOF Translational Compliant Parallel Mechanisms. , 2013, , .		0
100	Kinematic design of a new parallel kinematic machine for aircraft wing assembly. , 2012, , .		16
101	A Novel Large-Range XY Compliant Parallel Manipulator With Enhanced Out-of-Plane Stiffness. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	81
102	Mobility and Singularity Analysis of a Class of Two Degrees of Freedom Rotational Parallel Mechanisms Using a Visual Graphic Approach. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	42
103	Conceptual Design and Modelling of a Self-Adaptive Compliant Parallel Gripper for High-Precision Manipulation. , 2012, , .		6
104	Type Synthesis of Variable Degrees-of-Freedom Parallel Manipulators With Both Planar and 3T1R Operation Modes. , 2012, , .		10
105	Type Synthesis of Two Degrees-of-Freedom Rotational Parallel Mechanisms With a Fixed Center-of-Rotation Based on a Graphic Approach. , 2012, , .		1
106	Classification of Screw Systems Composed of Three Planar Pencils of Lines. , 2012, , .		0
107	Design and Modeling of a Large-Range Modular XYZ Compliant Parallel Manipulator Using Identical Spatial Modules. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	29
108	Mobility and kinematic analysis of a parallel mechanism with both PPR and planar operation modes. Mechanism and Machine Theory, 2012, 55, 77-90.	4.5	34

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109	Type Synthesis of Partially Decoupled 2-DOF Parallel Mechanisms with Two 1T1R Operational Modes. , 2012, , 245-257.		0
110	Forward Displacement Analysis of a Linearly Actuated Quadratic Spherical Parallel Manipulator. Journal of Mechanisms and Robotics, 2011, 3, .	2.2	5
111	Type Synthesis of 3-DOF Parallel Manipulators With Both Planar and Translational Operation Modes. , 2011, , .		4
112	Geometric Interpretation of Singular Configurations of a Class of Parallel Manipulators. , 2011, , .		1
113	Mobility and Singularity Analysis of a Class of 2-DOF Rotational Parallel Mechanisms Using a Visual Graphic Approach. , 2011, , .		7
114	Kinematic analysis of 5-RPUR (3T2R) parallel mechanisms. Meccanica, 2011, 46, 131-146.	2.0	32
115	Forward displacement analysis of a quadratic 4-DOF 3T1R parallel manipulator. Meccanica, 2011, 46, 147-154.	2.0	19
116	A nonlinear analysis of spatial compliant parallel modules: Multi-beam modules. Mechanism and Machine Theory, 2011, 46, 680-706.	4.5	57
117	Comments on â€œDesign and analysis of a totally decoupled 3-DOF spherical parallel manipulatorâ€•by D. Zhang and F. Zhang (Robotica, Available on CJO 19 Nov, 2010, doi:10.1017/S0263574710000652). Robotica, 2011, 29, 1101-1103.	1.9	0
118	Forward Displacement Analysis and Singularity Analysis of a Special 2-DOF 5R Spherical Parallel Manipulator. Journal of Mechanisms and Robotics, 2011, 3, .	2.2	17
119	Conceptual Design and Analysis of Spherical Mobile Robots With an Omni-Wheel Based Internal Driving Unit. , 2011, , .		0
120	Design and Modelling of Spatial Compliant Parallel Mechanisms for Large Range of Translation. , 2010, , .		2
121	Novel XY Compliant Parallel Manipulators for Large Displacement Translation With Enhanced Stiffness. , 2010, , .		2
122	Forward Displacement Analysis of a Linearly Actuated Quadratic Spherical Parallel Manipulator. , 2010, , .		0
123	A Formula That Produces a Unique Solution to the Forward Displacement Analysis of a Quadratic Spherical Parallel Manipulator: The Agile Eye. Journal of Mechanisms and Robotics, 2010, 2, .	2.2	24
124	Forward displacement analysis of a 2-DOF RR-R̲R̲R-RRR spherical parallel manipulator. , 2010, , .		9
125	Design and Kinematic Analysis of a Multiple-Mode 5R2P Closed-Loop Linkage. , 2010, , 3-10.		9
126	Forward Displacement Analysis of a Quadratic Planar Parallel Manipulator: 3-RPÌ±R Parallel Manipulator With Similar Triangular Platforms 1. Journal of Mechanisms and Robotics, 2009, 1, .	2.2	5

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127	Forward Displacement Analysis of a Quadratic Spherical Parallel Manipulator: The Agile Eye. , 2009, , .		3
128	Forward Displacement Analysis and Singularity Analysis of a 2-DOF 5R Spherical Parallel Manipulator. , 2009, , .		7
129	A 3-DOF Translational Compliant Parallel Manipulator Based on Flexure Motion. , 2009, , .		6
130	Position Analysis of a Bennett-Based Multiple-Mode 7R Linkage. , 2009, , .		5
131	Forward displacement analysis of a 3-RPR planar parallel manipulator revisited. , 2009, , 69-76.		1
132	Type Synthesis of Six-DOF Wrist-Partitioned Parallel Manipulators. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	12
133	Forward Kinematics and Singularity Analysis of a 3-RPR Planar Parallel Manipulator. , 2008, , 29-38.		4
134	Forward Displacement Analysis of a Quadratic Planar Parallel Manipulator: 3-RPR Parallel Manipulator With Similar Triangular Platforms. , 2008, , .		3
135	Ordered Structure and the Coupling Degree of Planar Mechanism Based on Single-Open Chain and Its Application. , 2008, , .		1
136	Type Synthesis of Six-DOF Wrist-Partitioned Fully Parallel Manipulators. , 2007, , 1195.		3
137	Kinematic Analysis and Prototyping of a Partially Decoupled 4-DOF 3T1R Parallel Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 611-616.	2.9	59
138	Type Synthesis of Parallel Mechanisms With Multiple Operation Modes. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 595-601.	2.9	145
139	Parallel Mechanisms of the Multipteron Family: Kinematic Architectures and Benchmarking. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	46
140	Four-DOF PPPR= Parallel Mechanisms. , 2007, , 141-157.		0
141	Disscussion: â€œKinematics of the Translational 3-URC Mechanismâ€•[Di Gregorio, R., 2004, ASME J. Mech. Des., 126, pp. 1113â€“1117]. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 812-813.	2.9	2
142	Type synthesis of 4-DOF SP-equivalent parallel manipulators: A virtual chain approach. Mechanism and Machine Theory, 2006, 41, 1306-1319.	4.5	89
143	Type synthesis of three-DOF up-equivalent parallel manipulators using a virtual-chain approach. , 2006, , 123-132.		17
144	Type synthesis of 5-DOF parallel manipulators based on screw theory. Journal of Field Robotics, 2005, 22, 535-547.	0.7	69

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145	Comment on â€œR-CUBE, a decoupled parallel manipulator only with revolute jointsâ€•by Li et al., [Mech. Mach. Theory 40 (4) (2004) 467â€“473]. Mechanism and Machine Theory, 2005, 40, 1207-1208.	4.5	0
146	A DEPENDENT-SCREW SUPPRESSION APPROACH TO THE SINGULARITY ANALYSIS OF A 7-DOF REDUNDANT MANIPULATOR: CANADARM2. Transactions of the Canadian Society for Mechanical Engineering, 2005, 29, 593-604.	0.8	7
147	Mobility Analysis of Parallel Mechanisms Based on Screw Theory and the Concept of Equivalent Serial Kinematic Chain. , 2005, , 911.		18
148	Type Synthesis of 3-DOF PPR-Equivalent Parallel Manipulators Based on Screw Theory and the Concept of Virtual Chain. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 1113-1121.	2.9	60
149	TYPE SYNTHESIS OF INPUT-OUTPUT DECOUPLED PARALLEL MANIPULATORS. Transactions of the Canadian Society for Mechanical Engineering, 2004, 28, 185-196.	0.8	31
150	Type Synthesis of 3-DOF Spherical Parallel Manipulators Based on Screw Theory1. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 101-108.	2.9	190
151	Type Synthesis of 3-DOF Translational Parallel Manipulators Based on Screw Theory. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 83-92.	2.9	207
152	Type Synthesis of 3T1R 4-DOF Parallel Manipulators Based on Screw Theory. IEEE Transactions on Automation Science and Engineering, 2004, 20, 181-190.	2.3	212
153	Type Synthesis of 3-DOF PPR Parallel Manipulators Based on Screw Theory and the Concept of Virtual Chain. , 2004, , 1251.		10
154	Kinematics and Singularity Analysis of a Novel Type of 3-CRR 3-DOF Translational Parallel Manipulator. International Journal of Robotics Research, 2002, 21, 791-798.	8.5	178
155	Type Synthesis of 3-DOF Spherical Parallel Manipulators Based on Screw Theory. , 2002, , 523.		12
156	Generation and Forward Displacement Analysis of RP_R-PR-RP_R Analytic Planar Parallel Manipulators. Journal of Mechanical Design, Transactions of the ASME, 2002, 124, 294-300.	2.9	15
157	Type Synthesis of Linear Translational Parallel Manipulators. , 2002, , 453-462.		54
158	Kinematics and Singularity Analysis of a Novel Type of 3-<U>C</U>RR 3-DOF Translational Parallel Manipulator. International Journal of Robotics Research, 2002, 21, 791-798.	8.5	27
159	Forward displacement analysis of third-class analytic 3-RPR planar parallel manipulators. Mechanism and Machine Theory, 2001, 36, 1009-1018.	4.5	55
160	Generation and forward displacement analysis of two new classes of analytic 6-SPS parallel manipulators. Journal of Field Robotics, 2001, 18, 295-304.	0.7	10
161	Classification of 6-SPS Parallel Manipulators According to Their Components. , 2000, , .		13
162	Determination of the Uniqueness Domains of 3-RPR Planar Parallel Manipulators With Similar Platforms. , 2000, , .		14

#	Article	IF	Citations
163	Four-DOF SP= Parallel Mechanisms. , 0, , 159-172.		0
164	Five-DOF US= Parallel Mechanisms. , 0, , 173-183.		0
165	Five-DOF PPPU= Parallel Mechanisms. , 0, , 185-198.		0
166	Five-DOF PPS= Parallel Mechanisms. , 0, , 199-211.		0
167	Classification of Parallel Mechanisms. , 0, , 55-61.		0
168	Virtual-Chain Approach for the Type Synthesis of Parallel Mechanisms. , 0, , 63-83.		1