Yuefa Fang

List of Publications by Year
in descending order

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72	1,648	331670 21	315739 38
papers	citations	h-index	g-index

73	73	73	521
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure Synthesis of a Class of 4-DoF and 5-DoF Parallel Manipulators with Identical Limb Structures. International Journal of Robotics Research, 2002, 21, 799-810.	8.5	294
2	Structure Synthesis of a Class of 3-DOF Rotational Parallel Manipulators. IEEE Transactions on Automation Science and Engineering, 2004, 20, 117-121.	2.3	115
3	Topology and Constraint Analysis of Phase Change in the Metamorphic Chain and Its Evolved Mechanism. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	108
4	A new family of reconfigurable parallel mechanisms with diamond kinematotropic chain. Mechanism and Machine Theory, 2014, 74, 1-9.	4.5	81
5	Geometric Constraint and Mobility Variation of Two 3SvPSv Metamorphic Parallel Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	78
6	Enumeration of a class of overconstrained mechanisms using the theory of reciprocal screws. Mechanism and Machine Theory, 2004, 39, 1175-1187.	4.5	70
7	Structural synthesis and analysis of serialâ€“parallel hybrid mechanisms with spatial multi-loop kinematic chains. Mechanism and Machine Theory, 2012, 49, 198-215.	4.5	61
8	Geometry and Constraint Analysis of the Three-Spherical Kinematic Chain Based Parallel Mechanism. Journal of Mechanisms and Robotics, 2010, 2, .	2.2	45
9	Design and kinematic analysis of redundantly actuated parallel mechanisms for ankle rehabilitation. Robotica, 2015, 33, 366-384.	1.9	38
10	Design and analysis of a reconfigurable parallel mechanism for multidirectional additive manufacturing. Mechanism and Machine Theory, 2017, 112, 307-326.	4.5	37
11	Structure Synthesis of a Class of 4-DoF and 5-DoF Parallel Manipulators with Identical Limb Structures. International Journal of Robotics Research, 2002, 21, 799-810.	8.5	34
12	Type synthesis of 4-DOF nonoverconstrained parallel mechanisms based on screw theory. Robotica, 2012, 30, 31-37.	1.9	33
13	A new method to study the degree of freedom of spatial parallel mechanisms. International Journal of Advanced Manufacturing Technology, 2004, 23, 288-294.	3.0	32
14	Constraint analysis and bifurcated motion of the 3PUP parallel mechanism. Mechanism and Machine Theory, 2012, 49, 256-269.	4.5	31
15	Design of a Novel 4-DOF Kinematotropic Hybrid Parallel Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	30
16	Mobility variation of a family of metamorphic parallel mechanisms with reconfigurable hybrid limbs. Robotics and Computer-Integrated Manufacturing, 2016, 41, 145-162.	9.9	29
17	Type synthesis of a class of novel 3-DOF single-loop parallel leg mechanisms for walking robots. Mechanism and Machine Theory, 2020, 145, 103695.	4.5	29
18	Design of a class of generalized parallel mechanisms with large rotational angles and integrated end-effectors. Mechanism and Machine Theory, 2019, 134, 117-134.	4.5	24

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19	Structural synthesis of parallel manipulators with coupling sub-chains. Mechanism and Machine Theory, 2017, 118, 84-99.	4.5	23
20	Analytical Identification of Limb Structures for Translational Parallel Manipulators. Journal of Field Robotics, 2004, 21, 209-218.	0.7	22
21	Reconfigurable parallel mechanisms with planar five-bar metamorphic linkages. Science China Technological Sciences, 2014, 57, 210-218.	4.0	22
22	A class of novel 2T2R and 3T2R parallel mechanisms with large decoupled output rotational angles. Mechanism and Machine Theory, 2017, 114, 156-169.	4.5	20
23	Design and analysis of a partially decoupled generalized parallel mechanism for 3T1R motion. Mechanism and Machine Theory, 2019, 140, 211-232.	4.5	20
24	Inverse Velocity and Singularity Analysis of Low-DOF Serial Manipulators. Journal of Field Robotics, 2003, 20, 177-188.	0.7	19
25	Design and Analysis of 3R2T and 3R3T Parallel Mechanisms With High Rotational Capability. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	19
26	A class of reconfigurable parallel mechanisms with five-bar metamorphic linkage. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2089-2099.	2.1	19
27	Novel 2R3T and 2R2T parallel mechanisms with high rotational capability. Robotica, 2017, 35, 401-418.	1.9	19
28	Feasible Motion Solutions for Serial Manipulators at Singular Configurations. Journal of Mechanical Design, Transactions of the ASME, 2003, 125, 61-69.	2.9	17
29	Reciprocal screw theory based singularity analysis of a novel 3-DOF parallel manipulator. Chinese Journal of Mechanical Engineering (English Edition), 2012, 25, 647-653.	3.7	17
30	Design of dexterous hands based on parallel finger structures. Mechanism and Machine Theory, 2020, 152, 103952.	4.5	17
31	A serial of novel four degrees of freedom parallel mechanisms with large rotational workspace. Robotica, 2016, 34, 764-776.	1.9	14
32	Structural synthesis of a class of 2R2T hybrid mechanisms. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 703-709.	3.7	13
33	Structure synthesis of reconfigurable parallel mechanisms with closed-loop metamorphic linkages. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 1303-1316.	2.1	13
34	A class of novel 4-DOF and 5-DOF generalized parallel mechanisms with high performance. Mechanism and Machine Theory, 2018, 120, 57-72.	4.5	13
35	Design of a family of multi-DOF drive systems for fewer limb parallel mechanisms. Mechanism and Machine Theory, 2020, 148, 103802.	4.5	13
36	Structural synthesis of a class of two-loop generalized parallel mechanisms. Mechanism and Machine Theory, 2018, 128, 429-443.	4.5	12

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37	Type synthesis of 2R2T parallel mechanisms based on motion equivalent chain method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 3209-3217.	2.1	11
38	A spatial single loop kinematotropic mechanism used for biped/wheeled switchable robots. International Journal of Mechanics and Materials in Design, 2015, 11, 287-299.	3.0	11
39	Type synthesis of a family of novel parallel leg mechanisms driven by a 3-DOF drive system. Mechanism and Machine Theory, 2022, 167, 104572.	4.5	11
40	Structural Synthesis of Serial-Parallel Hybrid Mechanisms Based on Representation and Operation of Logical Matrix. Journal of Mechanisms and Robotics, 2009, 1, .	2.2	10
41	Parasitic rotation evaluation and avoidance of 3-UPU parallel mechanism. Frontiers of Mechanical Engineering, 2012, 7, 210-218.	4.3	9
42	Algorithm for topological design of multi-loop hybrid mechanisms via logical proposition. Robotica, 2012, 30, 599-612.	1.9	8
43	Structural synthesis of a class of 3-DOF wrist mechanisms with redundantly-actuated closed-loop units. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 276-290.	2.1	8
44	Design and analysis of novel 2R1T generalized parallel mechanisms with large rotational angles. Mechanism and Machine Theory, 2020, 150, 103879.	4.5	8
45	A new method for isotropic analysis of limited DOF parallel manipulators with terminal constraints. Robotica, 2011, 29, 563-569.	1.9	7
46	A novel 4-UPU translational parallel mechanism with fault-tolerant configurations. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 3006-3018.	2.1	7
47	Design and analysis of a class of redundant collaborative manipulators with 2D large rotational angles. Frontiers of Mechanical Engineering, 2020, 15, 66-80.	4.3	7
48	Design and analysis of the gripper mechanism based on generalized parallel mechanisms with configurable moving platform. Frontiers of Mechanical Engineering, 2021, 16, 765-781.	4.3	7
49	A novel 4-RRCR parallel mechanism based on screw theory and its kinematics analysis. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 2039-2048.	2.1	6
50	Two classes of reconfigurable parallel mechanisms constructed with multi-diamond kinematotropic chain. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3319-3330.	2.1	6
51	Dimensional synthesis of a novel 5-DOF reconfigurable hybrid perfusion manipulator for large-scale spherical honeycomb perfusion. Frontiers of Mechanical Engineering, 2021, 16, 46-60.	4.3	6
52	Type synthesis of single-loop 3T1R-parallel mechanisms with a multi-DOF drive system. Mechanism and Machine Theory, 2021, 163, 104373.	4.5	6
53	Adaptive control of parallel manipulators via fuzzy-neural network algorithm. Journal of Control Theory and Applications, 2007, 5, 295-300.	0.8	5
54	Kinematics and workspace analysis of a novel 3-DOF parallel manipulator with virtual symmetric plane. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 620-629.	2.1	5

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55	THE DOF DEGENERATION CHARACTERISTICS OF CLOSED LOOP OVER-CONSTRAINED MECHANISMS. Transactions of the Canadian Society for Mechanical Engineering, 2012, 36, 67-82.	0.8	4
56	Neural-adaptive sliding mode control of 4-SPS(PS) type parallel manipulator. , 2008, , .		3
57	Study on error sensibility of UPU parallel manipulator based on probability distribution. , 2011, , .		3
58	Type-Changeable Kinematic Pair Evolved Reconfigurable Parallel Mechanisms. , 2012, , 309-319.		3
59	Structure synthesis of symmetrical Low-DOF parallel manipulators. , 2007, , .		2
60	Bennett motion analysis based on specific regulus. International Journal of Mechanisms and Robotic Systems, 2013, 1, 170.	0.1	2
61	Kinematics Performance and Dynamics Analysis of a Novel Parallel Perfusion Manipulator with Passive Link. Mathematical Problems in Engineering, 2018, 2018, 1-18.	1.1	2
62	Workspace Augmentation for the Large-Scale Spherical Honeycombs Perfusion Using a Novel 5DOF Reconfigurable Manipulator. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	2
63	Topology and Constraint Analysis of Reconfiguration in Metamorphic Mechanisms. , 2010, , .		1
64	Kinematics and Singularity Analysis of a 2R2T Parallel Mechanism. , 2015, , .		1
65	New Kinematic Structures for Two-Loop Generalized Parallel Mechanism Designs. , 2018, , .		1
66	Control System of Three Degree Freedom Parallel Manipulator. , 2006, , .		0
67	Gait design and stable control for a symmetrical four-legged robot on irregular terrain. , 2008, , .		0
68	Structural synthesis of serial-parallel hybrid mechanisms via group theory and representation of logical matrix. , 2009, , .		0
69	Geometry and Constraint Based Design of Metamorphic Parallel Mechanisms. , 2011, , .		0
70	Error sensibility analysis of 3-UPU parallel manipulator based on probability distribution. , 2011, , .		0
71	A New Derivation Method of Contracted Graphs with Pentagonal Links Plus Other Links for Type Synthesis of Closed Mechanisms. Arabian Journal for Science and Engineering, 0, , 1.	3.0	0
72	A Class of Double-Delta-Based 6-DOF Pick-and-Place Robots with Integrated Grippers. Lecture Notes in Computer Science, 2021, , 236-245.	1.3	0