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	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
2	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
3	Type synthesis of single-loop 3T1R-parallel mechanisms with a multi-DOF drive system. Mechanism and Machine Theory, 2021, 163, 104373.	4.5	6
4	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
5	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
6	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
7	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
8	Design of dexterous hands based on parallel finger structures. Mechanism and Machine Theory, 2020, 152, 103952.	4.5	17
9	Design of a family of multi-DOF drive systems for fewer limb parallel mechanisms. Mechanism and Machine Theory, 2020, 148, 103802.	4.5	13
10	Design and analysis of novel 2R1T generalized parallel mechanisms with large rotational angles. Mechanism and Machine Theory, 2020, 150, 103879.	4.5	8
11	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
12	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
13	Design and analysis of a partially decoupled generalized parallel mechanism for 3T1R motion. Mechanism and Machine Theory, 2019, 140, 211-232.	4.5	20
14	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
15	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
16	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
17	New Kinematic Structures for Two-Loop Generalized Parallel Mechanism Designs. , 2018, , .		1
18	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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19	Design and analysis of a reconfigurable parallel mechanism for multidirectional additive manufacturing. Mechanism and Machine Theory, 2017, 112, 307-326.	4.5	37
20	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
21	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
22	Novel 2R3T and 2R2T parallel mechanisms with high rotational capability. Robotica, 2017, 35, 401-418.	1.9	19
23	Structural synthesis of parallel manipulators with coupling sub-chains. Mechanism and Machine Theory, 2017, 118, 84-99.	4.5	23
24	A serial of novel four degrees of freedom parallel mechanisms with large rotational workspace. Robotica, 2016, 34, 764-776.	1.9	14
25	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
26	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
27	Design and Analysis of 3R2T and 3R3T Parallel Mechanisms With High Rotational Capability. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	19
28	Structural synthesis of a class of 2R2T hybrid mechanisms. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 703-709.	3.7	13
29	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
30	Design and kinematic analysis of redundantly actuated parallel mechanisms for ankle rehabilitation. Robotica, 2015, 33, 366-384.	1.9	38
31	Kinematics and Singularity Analysis of a 2R2T Parallel Mechanism. , 2015, , .		1
32	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
33	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
34	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
35	Reconfigurable parallel mechanisms with planar five-bar metamorphic linkages. Science China Technological Sciences, 2014, 57, 210-218.	4.0	22
36	A new family of reconfigurable parallel mechanisms with diamond kinematotropic chain. Mechanism and Machine Theory, 2014, 74, 1-9.	4.5	81

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37	Geometric Constraint and Mobility Variation of Two 3SvPSv Metamorphic Parallel Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	78
38	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
39	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
40	Bennett motion analysis based on specific regulus. International Journal of Mechanisms and Robotic Systems, 2013, 1, 170.	0.1	2
41	Algorithm for topological design of multi-loop hybrid mechanisms via logical proposition. Robotica, 2012, 30, 599-612.	1.9	8
42	Type synthesis of 4-DOF nonoverconstrained parallel mechanisms based on screw theory. Robotica, 2012, 30, 31-37.	1.9	33
43	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
44	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
45	Parasitic rotation evaluation and avoidance of 3-UPU parallel mechanism. Frontiers of Mechanical Engineering, 2012, 7, 210-218.	4.3	9
46	Constraint analysis and bifurcated motion of the 3PUP parallel mechanism. Mechanism and Machine Theory, 2012, 49, 256-269.	4.5	31
47	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
48	Type-Changeable Kinematic Pair Evolved Reconfigurable Parallel Mechanisms. , 2012, , 309-319.		3
49	Design of a Novel 4-DOF Kinematotropic Hybrid Parallel Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	30
50	Geometry and Constraint Based Design of Metamorphic Parallel Mechanisms. , 2011, , .		0
51	Error sensibility analysis of 3-UPU parallel manipulator based on probability distribution. , 2011, , .		0
52	Study on error sensibility of UPU parallel manipulator based on probability distribution. , 2011, , .		3
53	A new method for isotropic analysis of limited DOF parallel manipulators with terminal constraints. Robotica, 2011, 29, 563-569.	1.9	7
54	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

#	ARTICLE	IF	CITATIONS
55	Topology and Constraint Analysis of Reconfiguration in Metamorphic Mechanisms. , 2010, , .		1
56	Geometry and Constraint Analysis of the Three-Spherical Kinematic Chain Based Parallel Mechanism. Journal of Mechanisms and Robotics, 2010, 2, .	2.2	45
57	Structural synthesis of serial-parallel hybrid mechanisms via group theory and representation of logical matrix. , 2009, , .		0
58	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
59	Neural-adaptive sliding mode control of 4-SPS(PS) type parallel manipulator. , 2008, , .		3
60	Gait design and stable control for a symmetrical four-legged robot on irregular terrain. , 2008, , .		0
61	Structure synthesis of symmetrical Low-DOF parallel manipulators. , 2007, , .		2
62	Adaptive control of parallel manipulators via fuzzy-neural network algorithm. Journal of Control Theory and Applications, 2007, 5, 295-300.	0.8	5
63	Control System of Three Degree Freedom Parallel Manipulator. , 2006, , .		0
64	Analytical Identification of Limb Structures for Translational Parallel Manipulators. Journal of Field Robotics, 2004, 21, 209-218.	0.7	22
65	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
66	Enumeration of a class of overconstrained mechanisms using the theory of reciprocal screws. Mechanism and Machine Theory, 2004, 39, 1175-1187.	4.5	70
67	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
68	Inverse Velocity and Singularity Analysis of Low-DOF Serial Manipulators. Journal of Field Robotics, 2003, 20, 177-188.	0.7	19
69	Feasible Motion Solutions for Serial Manipulators at Singular Configurations. Journal of Mechanical Design, Transactions of the ASME, 2003, 125, 61-69.	2.9	17
70	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
71	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
72	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