Jian S Dai

List of Publications by Year in descending order

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71651 46984 8,500 366 47 76 citations h-index g-index papers 379 379 379 3160 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Mobility of Overconstrained Parallel Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 220-229.	1.7	346
2	Product Cost Estimation: Technique Classification and Methodology Review. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 563-575.	1.3	335
3	Euler–Rodrigues formula variations, quaternion conjugation and intrinsic connections. Mechanism and Machine Theory, 2015, 92, 144-152.	2.7	201
4	Kinematic design considerations for minimally invasive surgical robots: an overview. International Journal of Medical Robotics and Computer Assisted Surgery, 2012, 8, 127-145.	1.2	161
5	Matrix Representation of Topological Changes in Metamorphic Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 837-840.	1.7	143
6	Interrelationship between screw systems and corresponding reciprocal systems and applications. Mechanism and Machine Theory, 2001, 36, 633-651.	2.7	134
7	A High-performance Redundantly Actuated Parallel Mechanism for Ankle Rehabilitation. International Journal of Robotics Research, 2009, 28, 1216-1227.	5 . 8	125
8	Model-Free Control for Continuum Robots Based on an Adaptive Kalman Filter. IEEE/ASME Transactions on Mechatronics, 2018, 23, 286-297.	3.7	125
9	Mobility Change in Two Types of Metamorphic Parallel Mechanisms. Journal of Mechanisms and Robotics, 2009, 1, .	1.5	124
10	Control Strategies for Patient-Assisted Training Using the Ankle Rehabilitation Robot (ARBOT). IEEE/ASME Transactions on Mechatronics, 2013, 18, 1799-1808.	3.7	124
11	Orientation and Workspace Analysis of the Multifingered Metamorphic Hand—Metahand. IEEE Transactions on Robotics, 2009, 25, 942-947.	7.3	123
12	Sprained Ankle Physiotherapy Based Mechanism Synthesis and Stiffness Analysis of a Robotic Rehabilitation Device. Autonomous Robots, 2004, 16, 207-218.	3.2	118
13	Synthesis, Mobility, and Multifurcation of Deployable Polyhedral Mechanisms With Radially Reciprocating Motion. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	1.7	111
14	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, .	1.7	108
15	A Novel 4-DOF Origami Grasper With an SMA-Actuation System for Minimally Invasive Surgery. IEEE Transactions on Robotics, 2016, 32, 484-498.	7.3	108
16	Constraint analysis on mobility change of a novel metamorphic parallel mechanism. Mechanism and Machine Theory, 2010, 45, 1864-1876.	2.7	105
17	Mobility analysis of a complex structured ball based on mechanism decomposition and equivalent screw system analysis. Mechanism and Machine Theory, 2004, 39, 445-458.	2.7	104
18	An historical review of the theoretical development of rigid body displacements from Rodrigues parameters to the finite twist. Mechanism and Machine Theory, 2006, 41, 41-52.	2.7	100

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19	Geometry and Kinematic Analysis of a Redundantly Actuated Parallel Mechanism That Eliminates Singularities and Improves Dexterity. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	98
20	Geometric Analysis and Synthesis of the Metamorphic Robotic Hand. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 1191-1197.	1.7	95
21	Geometric constraint-based modeling and analysis of a novel continuum robot with Shape Memory Alloy initiated variable stiffness. International Journal of Robotics Research, 2020, 39, 1620-1634.	5.8	95
22	Origami-Inspired Integrated Planar-Spherical Overconstrained Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	1.7	92
23	An Extensible Continuum Robot With Integrated Origami Parallel Modules. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	92
24	Null–space construction using cofactors from a screw–algebra context. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 1845-1866.	1.0	89
25	Compliance Analysis of a Three-Legged Rigidly-Connected Platform Device. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 755.	1.7	81
26	Design and kinematic analysis of a novel prism deployable mechanism. Mechanism and Machine Theory, 2013, 63, 35-49.	2.7	80
27	Geometric Constraint and Mobility Variation of Two 3SvPSv Metamorphic Parallel Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	1.7	78
28	Mobility and Geometric Analysis of the Hoberman Switch-Pitch Ball and Its Variant. Journal of Mechanisms and Robotics, 2010, 2, .	1.5	77
29	A Novel Continuum Manipulator Design Using Serially Connected Double-Layer Planar Springs. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1281-1292.	3.7	75
30	Kinematics of a Fully-Decoupled Remote Center-of-Motion Parallel Manipulator for Minimally Invasive Surgery. Journal of Medical Devices, Transactions of the ASME, 2012, 6, .	0.4	70
31	Geometric design optimization of an under-actuated tendon-driven robotic gripper. Robotics and Computer-Integrated Manufacturing, 2018, 50, 80-89.	6.1	70
32	KINEMATIC ANALYSIS AND PROTOTYPE OF A METAMORPHIC ANTHROPOMORPHIC HAND WITH A RECONFIGURABLE PALM. International Journal of Humanoid Robotics, 2011, 08, 459-479.	0.6	69
33	Biological Modeling and Evolution Based Synthesis of Metamorphic Mechanisms. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	68
34	Constraint-Based Limb Synthesis and Mobility-Change-Aimed Mechanism Construction. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	67
35	A Spatial Eight-Bar Linkage and Its Association With the Deployable Platonic Mechanisms. Journal of Mechanisms and Robotics, 2014, 6, .	1.5	65
36	A way of relating instantaneous and finite screws based on the screw triangle product. Mechanism and Machine Theory, 2017, 108, 75-82.	2.7	63

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37	Finite Displacement Screw Operators With Embedded Chasles' Motion. Journal of Mechanisms and Robotics, 2012, 4, .	1.5	62
38	Design of a Pneumatic Muscle Based Continuum Robot With Embedded Tendons. IEEE/ASME Transactions on Mechatronics, 2017, 22, 751-761.	3.7	59
39	Geometric Analysis of Overconstrained Parallel Manipulators with Three and Four Degrees of Freedom JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2002, 45, 730-740.	0.3	58
40	Structure synthesis and statics analysis of a foldable stair. Mechanism and Machine Theory, 2011, 46, 998-1015.	2.7	57
41	A high performance 2-dof over-actuated parallel mechanism for ankle rehabilitation. , 2009, , .		56
42	Structure Synthesis of Single-Driven Metamorphic Mechanisms Based on the Augmented Assur Groups. Journal of Mechanisms and Robotics, 2012, 4, .	1.5	54
43	Reconfigurability and unified kinematics modeling of a 3rTPS metamorphic parallel mechanism with perpendicular constraint screws. Robotics and Computer-Integrated Manufacturing, 2013, 29, 121-128.	6.1	53
44	Helical Kirigami-Enabled Centimeter-Scale Worm Robot With Shape-Memory-Alloy Linear Actuators. Journal of Mechanisms and Robotics, $2015, 7, .$	1.5	53
45	Forward displacement analysis of the general 6–6 Stewart mechanism using Gröbner bases. Mechanism and Machine Theory, 2009, 44, 1640-1647.	2.7	52
46	Stiffness Modeling of the Soft-Finger Contact in Robotic Grasping. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 646-656.	1.7	51
47	Geometric analysis and tooth profiling of a three-lobe helical rotor of the Roots blower. Journal of Materials Processing Technology, 2005, 170, 259-267.	3.1	51
48	Posture, Workspace, and Manipulability of the Metamorphic Multifingered Hand With an Articulated Palm. Journal of Mechanisms and Robotics, 2011, 3, .	1.5	51
49	A Kirigami-Inspired 8R Linkage and Its Evolved Overconstrained 6R Linkages With the Rotational Symmetry of Order Two. Journal of Mechanisms and Robotics, 2014, 6, .	1.5	51
50	A Linear Algebraic Procedure in Obtaining Reciprocal Screw Systems. Journal of Field Robotics, 2003, 20, 401-412.	0.7	50
51	An approach to carton-folding trajectory planning using dual robotic fingers. Robotics and Autonomous Systems, 2003, 42, 47-63.	3.0	48
52	Unified Kinematics and Singularity Analysis of a Metamorphic Parallel Mechanism With Bifurcated Motion. Journal of Mechanisms and Robotics, 2013, 5, .	1.5	48
53	Screw-System-Variation Enabled Reconfiguration of the Bennett Plano-Spherical Hybrid Linkage and Its Evolved Parallel Mechanism. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	48
54	Systematization of morphing in reconfigurable mechanisms. Mechanism and Machine Theory, 2016, 96, 215-224.	2.7	48

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55	Origami-based robotic paper-and-board packaging for food industry. Trends in Food Science and Technology, 2010, 21, 153-157.	7.8	47
56	Design of an Ackermann-type steering mechanism. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 2549-2562.	1.1	46
57	Geometry and Constraint Analysis of the Three-Spherical Kinematic Chain Based Parallel Mechanism. Journal of Mechanisms and Robotics, 2010, 2, .	1.5	45
58	A Darboux-Frame-Based Formulation of Spin-Rolling Motion of Rigid Objects With Point Contact. IEEE Transactions on Robotics, 2010, 26, 383-388.	7.3	45
59	Kinematic study of the general plane-symmetric Bricard linkage and its bifurcation variations. Mechanism and Machine Theory, 2017, 116, 89-104.	2.7	44
60	Stiffness Characteristics of Carton Folds for Packaging. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	43
61	Dexterous Manipulation of Origami Cartons With Robotic Fingers Based on the Interactive Configuration Space. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	42
62	Reconfiguration of Spatial Metamorphic Mechanisms. Journal of Mechanisms and Robotics, 2009, 1, .	1.5	41
63	Novel spherical-planar and Bennett-spherical 6R metamorphic linkages with reconfigurable motion branches. Mechanism and Machine Theory, 2018, 128, 628-647.	2.7	41
64	Reconfiguration-aimed and manifold-operation based type synthesis of metamorphic parallel mechanisms with motion between 1R2T and 2R1T. Mechanism and Machine Theory, 2019, 139, 66-80.	2.7	41
65	Topology and kinematic analysis of color-changing ball. Mechanism and Machine Theory, 2011, 46, 67-81.	2.7	39
66	Multi-furcation in a derivative queer-square mechanism. Mechanism and Machine Theory, 2014, 81, 36-53.	2.7	39
67	A packaging robot for complex cartons. Industrial Robot, 2006, 33, 82-87.	1.2	38
68	Design and modeling of a soft robotic surface with hyperelastic material. Mechanism and Machine Theory, 2018, 130, 109-122.	2.7	38
69	Kinematics and statics of eccentric soft bending actuators with external payloads. Mechanism and Machine Theory, 2019, 139, 526-541.	2.7	38
70	Minimally Model-Based Trajectory Tracking and Variable Impedance Control of Flexible-Joint Robots. IEEE Transactions on Industrial Electronics, 2021, 68, 6031-6041.	5.2	36
71	Design analysis and type synthesis of a petal-inspired space deployable-foldable mechanism. Mechanism and Machine Theory, 2019, 141, 151-170.	2.7	35
72	Singularity-Free Workspace Aimed Optimal Design of a 2T2R Parallel Mechanism for Automated Fiber Placement. Journal of Mechanisms and Robotics, 2015, 7, .	1.5	34

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73	Design and kinematics analysis of a new 3CCC parallel mechanism. Robotica, 2010, 28, 1065-1072.	1.3	33
74	Mathematical Modeling and Simulation of the External and Internal Double Circular-Arc Spiral Bevel Gears for the Nutation Drive. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	1.7	33
75	Geometry Constraint and Branch Motion Evolution of 3-PUP Parallel Mechanisms with Bifurcated Motion. Mechanism and Machine Theory, 2013, 61, 168-183.	2.7	33
76	A Mechanically Intelligent Crawling Robot Driven by Shape Memory Alloy and Compliant Bistable Mechanism. Journal of Mechanisms and Robotics, 2020, 12 , .	1.5	33
77	Constraint-plane-based synthesis and topology variation of a class of metamorphic parallel mechanisms. Journal of Mechanical Science and Technology, 2014, 28, 4179-4191.	0.7	32
78	Passivity Preservation for Variable Impedance Control of Compliant Robots. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2342-2353.	3.7	32
79	Mobility in Metamorphic Mechanisms of Foldable/Erectable Kinds. , 1998, , .		32
80	Surgical robotics and its development and progress. Robotica, 2010, 28, 161-161.	1.3	31
81	Reciprocity-Based Singular Value Decomposition for Inverse Kinematic Analysis of the Metamorphic Multifingered Hand. Journal of Mechanisms and Robotics, 2012, 4, .	1.5	31
82	Constraint analysis and bifurcated motion of the 3PUP parallel mechanism. Mechanism and Machine Theory, 2012, 49, 256-269.	2.7	31
83	Variable Motion/Force Transmissibility of a Metamorphic Parallel Mechanism With Reconfigurable 3T and 3R Motion. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	31
84	Repelling-Screw Based Force Analysis of Origami Mechanisms. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	31
85	A new mechanical design method of compliant actuators with non-linear stiffness with predefined deflection-torque profiles. Mechanism and Machine Theory, 2019, 133, 164-178.	2.7	31
86	Orientation capability of planar manipulators using virtual joint angle analysis. Mechanism and Machine Theory, 2003, 38, 241-252.	2.7	30
87	Type synthesis of a class of spatial lower-mobility parallel mechanisms with orthogonal arrangement based on Lie group enumeration. Science China Technological Sciences, 2010, 53, 388-404.	2.0	30
88	Automatic folding of cartons using a reconfigurable robotic system. Robotics and Computer-Integrated Manufacturing, 2011, 27, 604-613.	6.1	29
89	Kinematic Analysis and Stiffness Validation of Origami Cartons. Journal of Mechanical Design, Transactions of the ASME, $2013,135,.$	1.7	29
90	Bifurcated configurations and their variations of an 8-bar linkage derived from an 8-kaleidocycle. Mechanism and Machine Theory, 2018, 121, 745-754.	2.7	29

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91	Reconfigurability of the origami-inspired integrated 8R kinematotropic metamorphic mechanism and its evolved 6R and 4R mechanisms. Mechanism and Machine Theory, 2021, 161, 104245.	2.7	29
92	Large bending behavior of creased paperboard. I. Experimental investigations. International Journal of Solids and Structures, 2013, 50, 3089-3096.	1.3	28
93	A Finite and Instantaneous Screw Based Approach for Topology Design and Kinematic Analysis of 5-Axis Parallel Kinematic Machines. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	1.9	28
94	A novel 6R metamorphic mechanism with eight motion branches and multiple furcation points. Mechanism and Machine Theory, 2019, 142, 103598.	2.7	28
95	Analysis of unified error model and simulated parameters calibration for robotic machining based on Lie theory. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101855.	6.1	28
96	A novel continuum-style robot with multilayer compliant modules. , 2014, , .		27
97	Bifurcation variations and motion-ruled-surface evolution of a novel Schatz linkage induced metamorphic mechanism. Mechanism and Machine Theory, 2020, 150, 103867.	2.7	27
98	Geometric Modeling and Meshing Characteristics of the Toroidal Drive. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 988-996.	1.7	26
99	From Origami to a New Class of Centralized 3-DOF Parallel Mechanisms. , 2007, , 1183.		26
100	Task-based structure synthesis of source metamorphic mechanisms and constrained forms of metamorphic joints. Mechanism and Machine Theory, 2016, 96, 334-345.	2.7	26
101	Trot Gait with Twisting Trunk of a Metamorphic Quadruped Robot. Journal of Bionic Engineering, 2018, 15, 971-981.	2.7	26
102	A Lie-Theory-Based Dynamic Parameter Identification Methodology for Serial Manipulators. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2688-2699.	3.7	26
103	Lie Group Based Type Synthesis Using Transformation Configuration Space for Reconfigurable Parallel Mechanisms With Bifurcation Between Spherical Motion and Planar Motion. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	26
104	Axis Constraint Analysis and Its Resultant 6R Double-Centered Overconstrained Mechanisms. Journal of Mechanisms and Robotics, 2011, 3, .	1.5	25
105	Assur-Group Inferred Structural Synthesis for Planar Mechanisms. Journal of Mechanisms and Robotics, 2015, 7, .	1.5	25
106	High-order based revelation of bifurcation of novel Schatz-inspired metamorphic mechanisms using screw theory. Mechanism and Machine Theory, 2020, 152, 103931.	2.7	25
107	Kinematic Geometry of Circular Surfaces With a Fixed Radius Based on Euclidean Invariants. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	1.7	24
108	Geometric constraints and motion branch variations for reconfiguration of single-loop linkages with mobility one. Mechanism and Machine Theory, 2016, 106, 16-29.	2.7	24

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109	A hybrid continuum robot based on pneumatic muscles with embedded elastic rods. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 318-328.	1.1	24
110	Force Analysis of a Vibratory Bowl Feeder for Automatic Assembly. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 637-645.	1.7	23
111	Numeration and type synthesis of 3-DOF orthogonal translational parallel manipulators. Progress in Natural Science: Materials International, 2008, 18, 563-574.	1.8	23
112	Characteristic Equation-Based Dynamics Analysis of Vibratory Bowl Feeders With Three Spatial Compliant Legs. IEEE Transactions on Automation Science and Engineering, 2008, 5, 164-175.	3.4	23
113	Continuous Static Gait with Twisting Trunk of a Metamorphic Quadruped Robot. Mechanical Sciences, 2018, 9, 1-14.	0.5	23
114	Forward Kinematics Solution Distribution and Analytic Singularity-Free Workspace of Linear-Actuated Symmetrical Spherical Parallel Manipulators. Journal of Mechanisms and Robotics, 2015, 7, .	1.5	22
115	Dynamics and Coupling Actuation of Elastic Underactuated Manipulators. Journal of Field Robotics, 2003, 20, 135-146.	0.7	21
116	Mobility analysis of complex joints by means of screw theory. Robotica, 2009, 27, 915-927.	1.3	21
117	Compliance modeling and analysis of a 3-RPS parallel kinematic machine module. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 703-713.	1.9	21
118	Stability Margin of a Metamorphic Quadruped Robot With a Twisting Trunk. Journal of Mechanisms and Robotics, 2019, 11 , .	1.5	21
119	Mechanism design and analysis of a proposed wheelchair-exoskeleton hybrid robot for assisting human movement. Mechanical Sciences, 2019, 10, 11-24.	0.5	21
120	Category-based food ordering processes. Trends in Food Science and Technology, 2011, 22, 14-20.	7.8	20
121	FLEXIBLE ROBOTICS. BJU International, 2011, 107, 187-189.	1.3	20
122	Stiffness Design for a Spatial Three Degrees of Freedom Serial Compliant Manipulator Based on Impact Configuration Decomposition. Journal of Mechanisms and Robotics, 2013, 5, .	1.5	20
123	Origaker: A Novel Multi-Mimicry Quadruped Robot Based on a Metamorphic Mechanism. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	20
124	Segmental Kinematic Coupling of the Human Spinal Column during Locomotion. Journal of Bionic Engineering, 2008, 5, 328-334.	2.7	19
125	Predictive seam tracking with iteratively learned feedforward compensation for high-precision robotic laser welding. Journal of Manufacturing Systems, 2012, 31, 2-7.	7.6	19
126	Large bending behavior of creased paperboard. II. Structural analysis. International Journal of Solids and Structures, 2013, 50, 3097-3105.	1.3	19

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127	An Optimization Approach to Teleoperation of the Thumb of a Humanoid Robot Hand: Kinematic Mapping and Calibration. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	1.7	19
128	Spherical trigonometry constrained kinematics for a dexterous robotic hand with an articulated palm. Robotica, 2016, 34, 2788-2805.	1.3	19
129	A Sarrus-like overconstrained eight-bar linkage and its associated Fulleroid-like platonic deployable mechanisms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 241-262.	1.1	19
130	Six novel 6R metamorphic mechanisms induced from three-series-connected Bennett linkages that vary among classical linkages. Mechanism and Machine Theory, 2021, 156, 104133.	2.7	19
131	Grasp analysis and optimal design of robotic fingertip for two tendon-driven fingers. Mechanism and Machine Theory, 2018, 130, 447-462.	2.7	18
132	A synthesis method for 1-DOF mechanisms with a cusp in the configuration space. Mechanism and Machine Theory, 2019, 132, 154-175.	2.7	18
133	Three Novel Symmetric Waldron–Bricard Metamorphic and Reconfigurable Mechanisms and Their Isomerization. Journal of Mechanisms and Robotics, 2019, 11, .	1.5	18
134	Stiffness characteristics and kinematics analysis of two-link elastic underactuated manipulators. Journal of Field Robotics, 2002, 19, 169-176.	0.7	17
135	Analysis and synthesis of ankle motion and rehabilitation robots. , 2009, , .		17
136	Task-oriented structure synthesis of a class of parallel manipulators using motion constraint generator. Mechanism and Machine Theory, 2013, 70, 394-406.	2.7	17
137	Motion/Force Transmission Analysis of Parallel Mechanisms With Planar Closed-Loop Subchains. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	1.7	17
138	Joint force decomposition and variation in unified inverse dynamics analysis of a metamorphic parallel mechanism. Meccanica, 2016, 51, 1583-1593.	1.2	17
139	Workspace Analysis of Tendon-Driven Continuum Robots Based on Mechanical Interference Identification. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	17
140	Relevance and Transferability for Parallel Mechanisms With Reconfigurable Platforms. Journal of Mechanisms and Robotics, $2019,11,.$	1.5	17
141	Comparative analysis of meshing characteristics with respect to different meshing rollers of the toroidal drive. Mechanism and Machine Theory, 2006, 41, 863-881.	2.7	16
142	Geometric and kinematic analysis of a seven-bar three-fixed-pivoted compound-joint mechanism. Mechanism and Machine Theory, 2010, 45, 170-184.	2.7	16
143	Geometric Constraint of an Evolved Deployable Ball Mechanism. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2011, 5, 302-314.	0.3	16
144	Mechanism Synthesis of a Foldable Stair. Journal of Mechanisms and Robotics, 2012, 4, .	1.5	16

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145	Six-Dimensional Compliance Analysis and Validation of Orthoplanar Springs. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	1.7	16
146	Reconfiguration of the plane-symmetric double-spherical 6R linkage with bifurcation and trifurcation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 473-482.	1.1	16
147	Configuration analysis of a reconfigurable Rubik's snake robot. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 3137-3154.	1.1	16
148	Fine motion control based on constraint criteria under pre-loading configurations. Journal of Field Robotics, 2000, 17, 171-185.	0.7	15
149	Enabling grasp action: Generalized quality evaluation of grasp stability via contact stiffness from contact mechanics insight. Mechanism and Machine Theory, 2019, 134, 625-644.	2.7	15
150	First- and Second-Order Kinematics-Based Constraint System Analysis and Reconfiguration Identification for the Queer-Square Mechanism. Journal of Mechanisms and Robotics, 2019, 11, .	1.5	15
151	Geometrical revelation of correlated characteristics of the ray and axis order of the Plýcker coordinates in line geometry. Mechanism and Machine Theory, 2020, 153, 103983.	2.7	15
152	Kinematic analysis and optimization of a planar parallel compliant mechanism for self-alignment knee exoskeleton. Mechanical Sciences, 2018, 9, 405-416.	0.5	15
153	Screw System Analysis of Parallel Mechanisms and Applications to Constraint and Mobility Study. , 2004, , 1569.		14
154	Error Analysis and Compensation for Meshing Contact of Toroidal Drives. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 610-617.	1.7	14
155	Orientation angle workspaces of planar serial three-link manipulators. Science in China Series D: Earth Sciences, 2009, 52, 975-985.	0.9	14
156	A Polynomial Formulation of Inverse Kinematics of Rolling Contact. Journal of Mechanisms and Robotics, 2015, 7, .	1.5	14
157	Analysis of frequency characteristics and sensitivity of compliant mechanisms. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 680-693.	1.9	14
158	Augmented Adjacency Matrix for Topological Configuration of the Metamorphic Mechanisms. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2011, 5, 187-198.	0.3	13
159	Selective-Compliance-Based Lagrange Model and Multilevel Noncollocated Feedback Control of a Humanoid Robot. Journal of Mechanisms and Robotics, 2018, 10, .	1.5	13
160	Design of Transformable Hinged Ori-Block Dissected from Cylinders and Cones. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	1.7	13
161	Stiffness of a rectilinear suspension with automatic length compensation branches. Mechanism and Machine Theory, 2012, 56, 99-122.	2.7	12
162	Design of a novel simulated "soft―mechanical grasper. Mechanism and Machine Theory, 2021, 158, 104240.	2.7	12

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163	Compliance model of Exechon manipulators with an offset wrist. Mechanism and Machine Theory, 2022, 167, 104558.	2.7	12
164	The investigation of environmental sustainability within product design: a critical review. Design Science, 2022, 8, .	1.1	12
165	Patterned Bootstrap: A New Method That Gives Efficiency for Some Precision Position Synthesis Problems. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 173-183.	1.7	11
166	Gravity compensation control of compliant joint systems with multiple drives. , 2013, , .		11
167	A compliant humanoid walking strategy based on the switching of state feedback gravity compensation controllers. , $2013,$, .		11
168	Lyapunov Stability Margins for humanoid robot balancing. , 2014, , .		11
169	Optimization of Stiffness to Achieve Increased Bandwidth and Torque Resolution in Nonlinear Stiffness Actuators. IEEE Transactions on Industrial Electronics, 2020, 67, 2925-2935.	5.2	11
170	Reconfigurable and Deployable Platonic Mechanisms with a Variable Revolute Joint., 2014,, 485-495.		11
171	Lower-Mobility Parallel Robots: Theory and Applications. Advances in Mechanical Engineering, 2010, 2, 927930.	0.8	11
172	A reconfigurable robotic folding system for confectionery industry. Industrial Robot, 2010, 37, 542-551.	1,2	10
173	Structural Synthesis of Serial Robotic Manipulators Subject to Specific Motion Constraints. , 2010, , .		10
174	Inverse kinematics and workspace analysis of the metamorphic hand. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 965-975.	1.1	10
175	Geometry and kinematics for a spherical-base integrated parallel mechanism. Meccanica, 2016, 51, 1607-1621.	1.2	10
176	The isomorphic design and analysis of a novel plane-space polyhedral metamorphic mechanism. Mechanism and Machine Theory, 2019, 131, 152-171.	2.7	10
177	Tangential intersection of branches of motion. Mechanism and Machine Theory, 2020, 147, 103730.	2.7	10
178	Screw-System-Based Mobility Analysis of a Family of Fully Translational Parallel Manipulators. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	9
179	Synthesis and static analysis of the deployable frame for a morphing wing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 565-579.	1.1	9
180	A deformable tetrahedron rolling mechanism (DTRM) based on URU branch. Mechanism and Machine Theory, 2020, 153, 104000.	2.7	9

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