List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamic modeling of an upper limb hybrid exoskeleton for simulations of load-lifting assistance. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 2147-2160.	2.1	4
2	A Semi-active Upper-Body Exoskeleton for Motion Assistance. Biosystems and Biorobotics, 2022, , 301-305.	0.3	2
3	Exact Path Synthesis of RCCC Linkages for a Maximum of Nine Prescribed Positions. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	7
4	A Maxwell-Slip Based Hysteresis Model for Nonlinear Stiffness Compliant Actuators. IEEE Transactions on Industrial Electronics, 2022, 69, 11510-11520.	7.9	3
5	Lower limb exoskeleton parasitic force modeling and minimizing with an adaptive trajectory controller. Mechanism and Machine Theory, 2022, 170, 104731.	4.5	8
6	A Novel Passive Shoulder Exoskeleton Designed With Variable Stiffness Mechanism. IEEE Robotics and Automation Letters, 2022, 7, 2748-2754.	5.1	21
7	User-centered development and performance assessment of a modular full-body exoskeleton (AXO-SUIT). Biomimetic Intelligence and Robotics, 2022, 2, 100032.	2.0	7
8	Design and Analytical Magnetic Modeling of a Spherical Motion Generator With Multi-DOF Electromagnetic Actuation. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	0
9	Kinematics of a 6-DOF parallel manipulator with two limbs actuated by spherical motion generators. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 2828-2846.	2.1	2
10	Dynamic modeling and sliding mode control of 3-RSS coaxial layout polishing robot. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, .	1.6	1
11	Extended Rotation Matrix forÂKinematics ofÂPointing Mechanisms. Springer Proceedings in Advanced Robotics, 2022, , 39-46.	1.3	0
12	Corrections to "A Novel Passive Shoulder Exoskeleton Designed With Variable Stiffness Mechanism― [Apr 22 2748-2754]. IEEE Robotics and Automation Letters, 2022, 7, 7099-7099.	5.1	0
13	Design and optimization of a hip disarticulation prosthesis using the remote center of motion mechanism. Technology and Health Care, 2021, 29, 269-281.	1.2	4
14	A fully analytical method for coupler-curve synthesis of planar four-bar linkages. Mechanism and Machine Theory, 2021, 155, 104070.	4.5	23
15	Suppress Vibration on Robotic Polishing with Impedance Matching. Actuators, 2021, 10, 59.	2.3	10
16	Kinematic design and analysis of a 6-DOF spatial five-Bar linkage. Mechanism and Machine Theory, 2021, 158, 104227.	4.5	15
17	Algebraic coupler curve of spherical four-bar linkages and its applications. Mechanism and Machine Theory, 2021, 158, 104218.	4.5	8
18	A 4-DOF Upper Limb Exoskeleton for Physical Assistance: Design, Modeling, Control and Performance Evaluation. Applied Sciences (Switzerland), 2021, 11, 5865.	2.5	27

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19	A note on the univariate nonic derived from the coupler curve of four-bar linkages. Mechanism and Machine Theory, 2021, 162, 104344.	4.5	4
20	Design and Performance Evaluation of a Hybrid Hand Exoskeleton for Hand Opening/Closing. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.7	3
21	An Active Vibration Suppression Method for Macro-Mini Manipulator. , 2021, , .		1
22	Design of a powered full-body exoskeleton for physical assistance of elderly people. International Journal of Advanced Robotic Systems, 2021, 18, 172988142110535.	2.1	13
23	Modeling and Analysis of Physical Human-Robot Interaction of an Upper Body Exoskeleton in Assistive Applications. Modeling, Identification and Control, 2021, 42, 159-172.	1.1	1
24	A Novel 2-SUR 6-DOF Parallel Manipulator Actuated by Spherical Motion Generators. , 2021, , .		0
25	Analytical magnetics and torque modeling of a multi-layer electromagnetic driven spherical motion generator. Journal of Magnetism and Magnetic Materials, 2020, 493, 165707.	2.3	6
26	Exact synthesis and input–output analysis of 1-dof planar linkages for visiting 10 poses. Mechanism and Machine Theory, 2020, 143, 103625.	4.5	13
27	Magnetic field modeling and validation for a spherical actuator with cylindrical permanent magnets. Simulation Modelling Practice and Theory, 2020, 98, 101954.	3.8	5
28	Advances in Robotics and Mechatronics. Robotics, 2020, 9, 36.	3.5	1
29	PD-Based Fuzzy Sliding Mode Control of a Wheelchair Exoskeleton Robot. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2546-2555.	5.8	40
30	Analytical determination of shape singularities for three types of parallel manipulators. Mechanism and Machine Theory, 2020, 149, 103812.	4.5	8
31	Design of a passive lower limb exoskeleton for walking assistance with gravity compensation. Mechanism and Machine Theory, 2020, 150, 103840.	4.5	61
32	A Review on Design of Upper Limb Exoskeletons. Robotics, 2020, 9, 16.	3.5	234
33	Design, modeling and testing of a compact variable stiffness mechanism for exoskeletons. Mechanism and Machine Theory, 2020, 151, 103905.	4.5	31
34	Design and Kinematic Analysis of a Novel Wire-Driven Spherical Scissors Mechanism. Mechanisms and Machine Science, 2020, , 192-200.	0.5	4
35	A Case Study on Designing a Passive Feeding-Assistive Orthosis for Arthrogryposis. Journal of Medical Devices, Transactions of the ASME, 2020, 14, .	0.7	0
36	Effective Multi-Mode Grasping Assistance Control of a Soft Hand Exoskeleton Using Force Myography. Frontiers in Robotics and Al, 2020, 7, 567491.	3.2	10

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37	Mechanical Design and Kinematic Modeling of a Cable-Driven Arm Exoskeleton Incorporating Inaccurate Human Limb Anthropomorphic Parameters. Sensors, 2019, 19, 4461.	3.8	14
38	Design of a Compact Rotary Series Elastic Actuator with Nonlinear Stiffness for Lower Limb Exoskeletons. , 2019, , .		3
39	Dynamic modeling and trajectory tracking control of an electromagnetic direct driven spherical motion generator. Robotics and Computer-Integrated Manufacturing, 2019, 59, 201-212.	9.9	8
40	Modeling, Analysis and Testing of Load Distribution for Planetary Gear Trains with 3D Carrier Pinhole Position Errors. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1381-1394.	2.2	7
41	A review of spherical motion generation using either spherical parallel manipulators or spherical motors. Mechanism and Machine Theory, 2019, 140, 377-388.	4.5	46
42	Validation of subject-specific musculoskeletal models using the anatomical reachable 3-D workspace. Journal of Biomechanics, 2019, 90, 92-102.	2.1	4
43	Design and kinematic analysis of a 3-RRR spherical parallel manipulator reconfigured with four–bar linkages. Robotics and Computer-Integrated Manufacturing, 2019, 56, 55-65.	9.9	36
44	A novel revolute joint of variable stiffness with reconfigurability. Mechanism and Machine Theory, 2019, 133, 720-736.	4.5	45
45	Adaptive fuzzy sliding mode algorithm-based decentralised control for a permanent magnet spherical actuator. International Journal of Systems Science, 2019, 50, 403-418.	5.5	7
46	A compact 3-DOF shoulder mechanism constructed with scissors linkages for exoskeleton applications. Mechanism and Machine Theory, 2019, 132, 264-278.	4.5	42
47	The reachable 3-D workspace volume is a measure of payload and body-mass-index: A quasi-static kinetic assessment. Applied Ergonomics, 2019, 75, 108-119.	3.1	6
48	Payload estimation using forcemyography sensors for control of upper-body exoskeleton in load carrying assistance. Modeling, Identification and Control, 2019, 40, 189-198.	1.1	20
49	Architectural singularities of parallel mechanisms with prismatic joints due to special designs of platform shapes. Mechanical Sciences, 2019, 10, 449-464.	1.0	8
50	Unified model for the output accuracy of open-chain manipulators that considers joint clearance and structural parameters. Journal of Mechanical Science and Technology, 2018, 32, 4925-4931.	1.5	7
51	A Novel Precision Measuring Parallel Mechanism for the Closed-Loop Control of a Biologically Inspired Lower Limb Exoskeleton. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2693-2703.	5.8	28
52	Stability and Gait Planning of 3-UPU Hexapod Walking Robot. Robotics, 2018, 7, 48.	3.5	10
53	Integrated design, modeling and analysis of a novel spherical motion generator driven by electromagnetic principle. Robotics and Autonomous Systems, 2018, 106, 69-81.	5.1	20
54	Kinematic Analysis and Design of a Novel Shoulder Exoskeleton Using a Double Parallelogram Linkage. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	70

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55	A human-centered design optimization approach for robotic exoskeletons through biomechanical simulation. Robotics and Autonomous Systems, 2017, 91, 337-347.	5.1	70
56	Design and analysis of a metamorphic mechanism cell for multistage orderly deployable/retractable mechanism. Mechanism and Machine Theory, 2017, 111, 85-98.	4.5	29
57	Intention Detection for Dexterous Human Arm Motion with FSR Sensor Bands. , 2017, , .		9
58	An ankle rehabilitation robot based on 3-RRS spherical parallel mechanism. Advances in Mechanical Engineering, 2017, 9, 168781401771811.	1.6	31
59	Geometric analysis of coupler-link mobility and circuits for planar four-bar linkages. Mechanism and Machine Theory, 2017, 118, 53-64.	4.5	12
60	An upper-body exoskeleton with a novel shoulder mechanism for assistive applications. , 2017, , .		34
61	Design and control of a 4-DOF cable-driven arm rehabilitation robot (CARR-4). , 2017, , .		6
62	Optimization design of a bionic lower limb rehabilitation robot with dynamic analysis. , 2017, , .		0
63	Integrated design and modelling of an electro-magnets driven spherical parallel manipulator. , 2017, , .		2
64	A parametric model of 3-PPR planar parallel manipulators for optimum shape design of platforms. Mechanism and Machine Theory, 2017, 118, 139-153.	4.5	18
65	Torque modelling and current optimization of a spherical actuator built as an electro-magnets driven spherical parallel manipulator. , 2017, , .		2
66	Kinematic Design of a Seven-Bar Linkage with Optimized Centrodes for Pure-Rolling Cutting. Mathematical Problems in Engineering, 2017, 2017, 1-11.	1.1	3
67	Type Synthesis of 2T1R Decoupled Parallel Mechanisms Based on Lie Groups and Screw Theory. Mathematical Problems in Engineering, 2017, 2017, 1-11.	1.1	7
68	Robust dynamic decoupling control for permanent magnet spherical actuators based on extended state observer. IET Control Theory and Applications, 2017, 11, 619-631.	2.1	18
69	Energy Optimal Trajectories in Human Arm Motion Aiming for Assistive Robots. Modeling, Identification and Control, 2017, 38, 11-19.	1.1	15
70	Stiffness analysis of a cable-driven wrist robotic rehabilitor. , 2016, , .		0
71	Design of a biologically inspired lower limb exoskeleton for human gait rehabilitation. Review of Scientific Instruments, 2016, 87, 104301.	1.3	32
72	M-DOF dynamic model for load sharing behavior analysis of PGT. Journal of Mechanical Science and Technology, 2016, 30, 993-1001.	1.5	10

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73	Architecture optimization of a parallel Sch¶nflies-motion robot for pick-and-place applications in a predefined workspace. Mechanism and Machine Theory, 2016, 106, 148-165.	4.5	45
74	A Unified Formulation for Dimensional Synthesis of Stephenson Linkages. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	17
75	Fundamental Theories and Practice in Service Robotics. Mathematical Problems in Engineering, 2015, 2015, 1-2.	1.1	0
76	Parametric optimal design of a parallel Schönflies-motion robot under pick-and-place trajectory constraints. , 2015, , .		7
77	End User Needs Elicitation for a Full-body Exoskeleton to Assist the Elderly. Procedia Manufacturing, 2015, 3, 1403-1409.	1.9	16
78	Synthesis of RCCC Linkages to Visit Four Given Poses. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	13
79	Image processing assisted locomotion observation of cockroach Blaptica Dubia. Transactions of the Institute of Measurement and Control, 2015, 37, 522-535.	1.7	1
80	A New Approach to Design of a Lightweight Anthropomorphic Arm for Service Applications. Journal of Mechanisms and Robotics, 2015, 7, .	2.2	47
81	Coupler-curve synthesis of four-bar linkages via a novel formulation. Mechanism and Machine Theory, 2015, 94, 177-187.	4.5	46
82	Dynamic modeling and design optimization of a 3-DOF spherical parallel manipulator. Robotics and Autonomous Systems, 2014, 62, 1377-1386.	5.1	66
83	Mobile platform center shift in spherical parallel manipulators with flexible limbs. Mechanism and Machine Theory, 2014, 75, 12-26.	4.5	41
84	A Robust Solution of the Spatial Burmester Problem. Journal of Mechanisms and Robotics, 2012, 4, .	2.2	14
85	Shape modeling of a concentric-tube continuum robot. , 2012, , .		8
86	Integrated dimensional and drive-train design optimization of a light-weight anthropomorphic arm. Robotics and Autonomous Systems, 2012, 60, 113-122.	5.1	31
87	Design optimization on the drive train of a light-weight robotic arm. Mechatronics, 2011, 21, 560-569.	3.3	48
88	Error modelling and experimental validation for a planar 3-PPR parallel manipulator. , 2011, , .		2
89	Integrated design optimization of a 5-DOF assistive light-weight anthropomorphic arm. , 2011, , .		6
90	Optimum design of spherical parallel manipulators for a prescribed workspace. Mechanism and Machine Theory, 2010, 45, 200-211.	4.5	115

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91	Comparison of 3-PP̲R parallel planar manipulators based on their sensitivity to joint clearances. , 2010, , .		10
92	A robust forward-displacement analysis of spherical parallel robots. Mechanism and Machine Theory, 2009, 44, 2204-2216.	4.5	82
93	Modelling of a special class of spherical parallel manipulators with Euler parameters. Robotica, 2009, 27, 161-170.	1.9	36
94	A unified input–output analysis of four-bar linkages. Mechanism and Machine Theory, 2008, 43, 240-251.	4.5	36
95	Forward kinematics of spherical parallel manipulators with revolute joints. , 2008, , .		8
96	The Synthesis of Dyads With One Prismatic Joint. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	7
97	A COMPREHENSIVE SOLUTION OF THE CLASSIC BURMESTER PROBLEM. Transactions of the Canadian Society for Mechanical Engineering, 2008, 32, 137-154.	0.8	4
98	Evaluation of workspace of a spherical robotic wrist. , 2007, , .		4
99	Kinematics of Spherical Multi-Lobe-Cams for The Design of a Pitch-Roll Wrist. , 2006, , .		0
100	Kinematic Calibration and Pose Measurement of a Medical Parallel Manipulator by Optical Position Sensors. Journal of Field Robotics, 2003, 20, 201-209.	0.7	39
101	Terrain-evaluation-based motion planning for legged locomotion on irregular terrain. Advanced Robotics, 2003, 17, 761-778.	1.8	4
102	Terrain evaluation and its application to path planning for walking machines. Advanced Robotics, 2001, 15, 729-748.	1.8	26
103	Quadruped Free Gait Generation Based on the Primary/Secondary Gait. Robotica, 1999, 17, 405-412.	1.9	26
104	Quadruped free gait generation for straight-line and circular trajectories. Advanced Robotics, 1999, 13, 513-538.	1.8	11
105	Quadruped free gait generation for straight-line and circular trajectories. Advanced Robotics, 1998, 13, 513-538.	1.8	9