

Guanglei Wu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3900534/publications.pdf>

Version: 2024-02-01

43
papers

559
citations

687363

13
h-index

677142

22
g-index

46
all docs

46
docs citations

46
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic modeling and design optimization of a 3-DOF spherical parallel manipulator. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1377-1386.	5.1	66
2	Architecture optimization of a parallel SchÄ¶nflies-motion robot for pick-and-place applications in a predefined workspace. <i>Mechanism and Machine Theory</i> , 2016, 106, 148-165.	4.5	45
3	Mobile platform center shift in spherical parallel manipulators with flexible limbs. <i>Mechanism and Machine Theory</i> , 2014, 75, 12-26.	4.5	41
4	Kinematic sensitivity, parameter identification and calibration of a non-fully symmetric parallel Delta robot. <i>Mechanism and Machine Theory</i> , 2021, 161, 104311.	4.5	40
5	Error Modeling and Experimental Validation of a Planar 3-PPR Parallel Manipulator With Joint Clearances. <i>Journal of Mechanisms and Robotics</i> , 2012, 4, .	2.2	36
6	Design and kinematic analysis of a 3-RRR spherical parallel manipulator reconfigured with fourâ€“bar linkages. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 56, 55-65.	9.9	36
7	Design and transmission analysis of an asymmetrical spherical parallel manipulator. <i>Mechanism and Machine Theory</i> , 2015, 94, 119-131.	4.5	28
8	Kinematic Analysis and Optimal Design of a Wall-mounted Four-limb Parallel SchÄ¶nflies-motion Robot for Pick-and-place Operations. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017, 85, 663-677.	3.4	24
9	Comparison of 3-DOF asymmetrical spherical parallel manipulators with respect to motion/force transmission andÄstiffness. <i>Mechanism and Machine Theory</i> , 2016, 105, 369-387.	4.5	21
10	Optimum time-energy-jerk trajectory planning for serial robotic manipulators by reparameterized quintic NURBS curves. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 4382-4393.	2.1	18
11	Fuzzy sliding mode variable structure control of a high-speed parallel PnP robot. <i>Mechanism and Machine Theory</i> , 2021, 162, 104349.	4.5	18
12	Stiffness Analysis and Optimization of a Co-axial Spherical Parallel Manipulator. <i>Modeling, Identification and Control</i> , 2014, 35, 21-30.	1.1	16
13	A Transmission Quality Index for a Class of Four-Limb Parallel SchÄ¶nflies Motion Generators. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	2.2	15
14	On the stiffness of three/four degree-of-freedom parallel pick-and-place robots with four identical limbs. , 2016, , .		14
15	A four-limb parallel SchÄ¶nflies motion generator with full-circle end-effector rotation. <i>Mechanism and Machine Theory</i> , 2020, 146, 103711.	4.5	14
16	A novel partially-decoupled translational parallel manipulator with symbolic kinematics, singularity identification and workspace determination. <i>Mechanism and Machine Theory</i> , 2021, 164, 104388.	4.5	13
17	Stiffness analysis and comparison of a Biglide parallel grinder with alternative spatial modular parallelograms. <i>Robotica</i> , 2017, 35, 1310-1326.	1.9	12
18	Optimal structural design of a Biglide parallel drill grinder. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2979-2990.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Design and analysis of a class of two-limb non-parasitic 2T1R parallel mechanism with decoupled motion and symbolic forward position solution - influence of optimal arrangement of limbs onto the kinematics, dynamics and stiffness. Mechanism and Machine Theory, 2022, 172, 104815.	4.5	9
20	Parametric optimal design of a parallel Schönlies-motion robot under pick-and-place trajectory constraints. , 2015, , .		7
21	Stiffness characterization of a 3-PPR planar parallel manipulator with actuation compliance. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2291-2302.	2.1	7
22	Kinematics and Dynamics of an Asymmetrical Parallel Robotic Wrist. Journal of Robotics, 2014, 2014, 1-13.	0.9	5
23	Dynamic stability of a tripod parallel robotic wrist featuring continuous end-effector rotation used for drill point grinder. Mechanism and Machine Theory, 2018, 129, 36-50.	4.5	5
24	An optimal preventive maintenance strategy for the hydraulic system of platform firefighting vehicle based on the improved NSGA-II algorithm. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 978-989.	0.7	5
25	Parallel PnP Robots. Research on Intelligent Manufacturing, 2021, , .	0.3	5
26	Kinetostatic design and development of a non-fully symmetric parallel Delta robot with one structural simplified kinematic linkage. Mechanics Based Design of Structures and Machines, 2023, 51, 3717-3737.	4.7	5
27	Conceptual Design and Analysis of a 6-Axis Double Delta Robot Towards High Acceleration. Lecture Notes in Electrical Engineering, 2017, , 389-401.	0.4	5
28	Real-time jerk-minimization trajectory planning of robotic arm based on polynomial curve optimization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 10852-10864.	2.1	5
29	Off-Line Programmed Error Compensation of an Industrial Robot in Ship Hull Welding. Lecture Notes in Computer Science, 2017, , 135-146.	1.3	3
30	Error modelling and experimental validation for a planar 3-PPR parallel manipulator. , 2011, , .		2
31	A novel impact load model for tool-changer mechanism of spindle system in machine tool. International Journal of Advanced Manufacturing Technology, 2018, 94, 1477-1490.	3.0	2
32	Kinematic design of a translational parallel mechanism based on sub-kinematic chain determined workspace superposition. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 7534-7549.	2.1	2
33	On the elastodynamics of a five-axis lightweight anthropomorphic robotic arm. , 0, , .		2
34	Multi-objective Design Optimization of a Parallel Schönlies-Motion Robot. Mechanisms and Machine Science, 2016, , 657-667.	0.5	1
35	Dynamic Modeling and Torque Feedforward based Optimal Fuzzy PD control of a High-Speed Parallel Manipulator. Journal of Robotics and Control (JRC), 2021, 2, .	1.3	1
36	Transmission Quality Evaluation for a Class of Four-limb Parallel Schönlies-motion Generators with Articulated Platforms. Mechanisms and Machine Science, 2018, , 282-290.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Manipulator Dynamics. , 2015, , 1855-1872.		1
38	Path planning of a 5-dof robotic arm based on BiRRT-APF algorithm considering obstacle avoidance. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 9282-9292.	2.1	1
39	Stiffness Analysis and Comparison of 3-PPR Planar Parallel Manipulators With Actuation Compliance. , 2012, , .		0
40	Singularity Analysis of a Wall-Mounted Parallel Robot with SCARA Motions. Mechanisms and Machine Science, 2017, , 599-607.	0.5	0
41	Sensitivity Analysis and Comparison of Parallel SchÅ¶flies-Motion Robots with a Single Platform. Lecture Notes in Electrical Engineering, 2017, , 155-167.	0.4	0
42	Kinematics and Orientation Workspace of a 3-DOF Parallel Robotic Wrist Actuated by Spherical Four-Bar Linkages. Springer Proceedings in Advanced Robotics, 2021, , 268-276.	1.3	0
43	An efficient approach of centroid alignment for spaceflight vehicles considering parameter uncertainties. Mechanism and Machine Theory, 2022, 172, 104774.	4.5	0