

Anton Antonov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Inverse and forward kinematics and workspace analysis of a novel 5-DOF (3T2R) parallel serial (hybrid) manipulator. <i>International Journal of Advanced Robotic Systems</i> , 2021, 18, 172988142199296.	1.3	20
2	Position, velocity, and workspace analysis of a novel 6-DOF parallel manipulator with piercing rods. <i>Mechanism and Machine Theory</i> , 2021, 161, 104300.	2.7	15
3	Dimensional (Parametric) Synthesis of the Hexapod-Type Parallel Mechanism with Reconfigurable Design. <i>Machines</i> , 2021, 9, 117.	1.2	14
4	Inverse and Forward Kinematic Analysis of a 6-DOF Parallel Manipulator Utilizing a Circular Guide. <i>Robotics</i> , 2021, 10, 31.	2.1	13
5	Forward Kinematic Analysis of a Rotary Hexapod. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2021, , 486-494.	0.3	9
6	Velocity and Singularity Analysis of a 5-DOF (3T2R) Parallel-Serial (Hybrid) Manipulator. <i>Machines</i> , 2022, 10, 276.	1.2	9
7	Kinematic Analysis of a Parallel Structure Mechanism for Work in Extreme Environments. <i>Journal of Machinery Manufacture and Reliability</i> , 2018, 47, 121-127.	0.1	8
8	Mathematical Model of 3-P Wheel-Legged Mobile Robotic Platform. <i>International Review of Mechanical Engineering</i> , 2017, 11, 311.	0.1	7
9	Problems of Kinematic Analysis and Special Positions of Mechanisms of Robots with Parallel Structure. <i>Journal of Machinery Manufacture and Reliability</i> , 2018, 47, 310-316.	0.1	6
10	Novel Reconfigurable Spherical Parallel Mechanisms with a Circular Rail. <i>Robotics</i> , 2022, 11, 30.	2.1	6
11	Dynamics of a New Parallel Structure Mechanism with Motors Mounted on the Base Outside the Working Area. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 183-195.	0.5	5
12	Velocity analysis of a spherical parallel robot. <i>Journal of Physics: Conference Series</i> , 2019, 1260, 112012.	0.3	4
13	Analysis and synthesis of parallel structure mechanism without singularities. <i>Journal of Physics: Conference Series</i> , 2019, 1260, 112023.	0.3	4
14	Parallel Robots with a Circular Guide: Systematic Review of Kinematic Schemes and Methods of Synthesis and Analysis. <i>Journal of Machinery Manufacture and Reliability</i> , 2022, 51, 20-29.	0.1	4
15	Virtual and Physical Prototyping of Reconfigurable Parallel Mechanisms with Single Actuation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7158.	1.3	3
16	Mobility Analysis of Foldable Mechanisms Using Screw Theory. <i>Russian Engineering Research</i> , 2022, 42, 250-254.	0.2	3
17	Inverse and Forward Kinematics of a Reconfigurable Spherical Parallel Mechanism with a Circular Rail. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2022, , 246-254.	0.3	3
18	Use of the chord method for analyzing workspaces of a parallel structure mechanism. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 747, 012079.	0.3	2

#	ARTICLE	IF	CITATIONS
19	The Direct Position Problem for I-Coordinate Mechanisms of Various Types. Journal of Machinery Manufacture and Reliability, 2019, 48, 392-400.	0.1	1
20	Position, velocity, and acceleration analyses of a reconfigurable parallel mechanism (hexapod) equipped with a single motor. European Journal of Mechanics, A/Solids, 2022, 93, 104392.	2.1	1
21	Analysis of the Structure and Workspace of the Isoglide-Type Robot for Rehabilitation Tasks. Advances in Intelligent Systems and Computing, 2020, , 186-194.	0.5	1
22	Tasks of kinematic analysis and special positions of the mechanisms of robots of parallel structure. Problemy Mashinostraeniya I Nadezhnos'ti Mashin, 2018, , 11-18.	0.0	1
23	The control system of a three-point wheel-legged robot. CASPIAN JOURNAL Control and High Technologies, 2016, 34, 058-069.	0.1	1
24	Solution of the Inverse Kinematic Problem for a Hexapod with a Circular Guide. Journal of Machinery Manufacture and Reliability, 2021, 50, 191-199.	0.1	0
25	Solving Kinematic and Dynamic Problems for a Three-Point Wheel-Legged Robot. Proceedings of Higher Educational Institutions DœD°chine Building, 2017, , .	0.1	0
26	PARALLEL STRUCTURE MECHANISM FOR WORKING IN AGGRESSIVE ENVIRONMENTS. Spravochnik Inzhenernyi Zhurnal, 2018, , 8-13.	0.7	0
27	MOBILITY ANALYSIS OF PARALLEL MECHANISMS USING SCREW THEORY. Problemy MaÅ¼inostroeniÅ¼ I Avtomatizacii, 2021, , 117-127.	0.0	0
28	A Reconfiguration Algorithm for the Single-Driven Hexapod-Type Parallel Mechanism. Robotics, 2022, 11, 8.	2.1	0
29	Workspace and performance analysis of a 6-DOF hexapod-type manipulator with a circular guide. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622210959.	1.1	0