

Yu She

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

625
citations

759233

12
h-index

940533

16
g-index

30
all docs

30
docs citations

30
times ranked

545
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Fabrication of a Soft Robotic Hand With Embedded Actuators and Sensors. <i>Journal of Mechanisms and Robotics</i> , 2015, 7, .	2.2	153
2	Cable manipulation with a tactile-reactive gripper. <i>International Journal of Robotics Research</i> , 2021, 40, 1385-1401.	8.5	85
3	Modeling and Validation of a Novel Bending Actuator for Soft Robotics Applications. <i>Soft Robotics</i> , 2016, 3, 71-81.	8.0	63
4	Dynamic modeling and vibration characteristics analysis of flexible-link and flexible-joint space manipulator. <i>Multibody System Dynamics</i> , 2018, 43, 321-347.	2.7	46
5	Analytical and semi-analytical inverse kinematics of SSRMS-type manipulators with single joint locked failure. <i>Acta Astronautica</i> , 2014, 105, 201-217.	3.2	31
6	Statics of Continuum Space Manipulators With Nonconstant Curvature via Pseudorigid-Body 3R Model. <i>IEEE Access</i> , 2018, 6, 70854-70865.	4.2	31
7	Fault-tolerant analysis and control of SSRMS-type manipulators with single-joint failure. <i>Acta Astronautica</i> , 2016, 120, 270-286.	3.2	28
8	Vibration suppression control of free-floating space robots with flexible appendages for autonomous target capturing. <i>Acta Astronautica</i> , 2018, 151, 904-918.	3.2	22
9	Design and Prototype of a Tunable Stiffness Arm for Safe Human-Robot Interaction. , 2016, , .		18
10	Introducing mass parameters to Pseudo-“Rigid”-Body models for precisely predicting dynamics of compliant mechanisms. <i>Mechanism and Machine Theory</i> , 2018, 126, 273-294.	4.5	17
11	Design and Modeling of a Compliant Link for Inherently Safe Corobots. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	2.2	17
12	A transformable wheel robot with a passive leg. , 2015, , .		14
13	Modeling and control of inherently safe robots with variable stiffness links. <i>Robotics and Autonomous Systems</i> , 2019, 120, 103247.	5.1	14
14	Toward Tradeoff Between Impact Force Reduction and Maximum Safe Speed: Dynamic Parameter Optimization of Variable Stiffness Robots. <i>Journal of Mechanisms and Robotics</i> , 2020, 12, .	2.2	12
15	Dynamic analysis of the compounded system formed by dual-arm space robot and the captured target. , 2013, , .		8
16	Design and Modeling of a Continuously Tunable Stiffness Arm for Safe Physical Human-“Robot Interaction. <i>Journal of Mechanisms and Robotics</i> , 2020, 12, .	2.2	8
17	Dynamic modeling of a 2D compliant link for safety evaluation in human-robot interactions. , 2015, , .		7
18	On the impact force of human-robot interaction: Joint compliance vs. link compliance. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	A Comparative Study on the Effect of Mechanical Compliance for a Safe Physical Human-Robot Interaction. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	7
20	Shape Optimization of 2D Compliant Links for Design of Inherently Safe Robots. , 2015, , .		6
21	Singularity-free path planning of dual-arm space robot for keeping the base inertially stabilized during target capturing. , 2012, , .		5
22	Dynamic modeling of self-reconfigurable multi-arm space robotic system with variable topology. , 2013, , .		5
23	Design, Modeling, and Manufacturing of a Variable Lateral Stiffness Arm Via Shape Morphing Mechanisms. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	5
24	Inverse kinematics of SSRMS-type manipulators with single joint locked failure. , 2013, , .		4
25	Design of a parallel kinematic MEMS XY nanopositioner. , 2015, , .		4
26	A Parametric Study of Compliant Link Design for Safe Physical Human-Robot Interaction. Robotica, 2021, 39, 1739-1759.	1.9	4
27	Modeling and optimization of head-collision of a flexible joint robot. , 2017, , .		2
28	Barrier Lyapunov Function Based Control of a Flexible Link Co-Robot With Safety Constraints. , 2018, , .		2
29	Design of Monitoring and Controlling System for Aquaculture Based on Wireless-Embedded Technology. Applied Mechanics and Materials, 2013, 278-280, 719-722.	0.2	0
30	Pseudo-Rigid-Body Models for Dynamics of Compliant Robotic Links. , 2017, , .		0