

Kun Xu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

344
citations

933410

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888047

17
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31
all docs

31
docs citations

31
times ranked

232
citing authors

#	ARTICLE	IF	CITATIONS
1	The progress of extraterrestrial regolith-sampling robots. <i>Nature Astronomy</i> , 2019, 3, 487-497.	10.1	39
2	A review of structures, verification, and calibration technologies of space robotic systems for on-orbit servicing. <i>Science China Technological Sciences</i> , 2021, 64, 462-480.	4.0	37
3	Study on the Behavior of Solar Array Deployment with Root Hinge Drive Assembly. <i>Chinese Journal of Aeronautics</i> , 2012, 25, 276-284.	5.3	29
4	Design and analysis of a metamorphic mechanism cell for multistage orderly deployable/retractable mechanism. <i>Mechanism and Machine Theory</i> , 2017, 111, 85-98.	4.5	29
5	Motion planning and implementation for the self-recovery of an overturned multi-legged robot. <i>Robotica</i> , 2017, 35, 1107-1120.	1.9	29
6	China's ambitions and challenges for asteroid-comet exploration. <i>Nature Astronomy</i> , 2021, 5, 730-731.	10.1	23
7	Wheel-legged hexapod robots: a multifunctional mobile manipulating platform. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2017, 30, 3-6.	3.7	21
8	Gait analysis of a radial symmetrical hexapod robot based on parallel mechanisms. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 867-879.	3.7	14
9	Robotic drilling tests in simulated lunar regolith environment. <i>Journal of Field Robotics</i> , 2021, 38, 1011-1035.	6.0	11
10	Review on Bioinspired Planetary Regolith-Burrowing Robots. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	11
11	Terrain Adaptability Mechanism of Large Ruminants' Feet on the Kinematics View. <i>Applied Bionics and Biomechanics</i> , 2015, 2015, 1-9.	1.1	9
12	Investigation of feet functions of large ruminants with a decoupled model of equivalent mechanism. <i>Biology Open</i> , 2017, 6, 407-414.	1.2	9
13	Design and analysis of a cable-winding device driving large deployable mechanisms in astrophysics missions. <i>Acta Astronautica</i> , 2020, 169, 124-137.	3.2	9
14	Roller-Skating of Mammalian Quadrupedal Robot With Passive Wheels Inspired by Human. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1624-1634.	5.8	9
15	Motion characteristics of human roller skating. <i>Biology Open</i> , 2019, 8, .	1.2	6
16	Modeling and control of a hexacopter with a passive manipulator for aerial manipulation. <i>Complex & Intelligent Systems</i> , 2021, 7, 3051-3065.	6.5	6
17	Fusing Hand Postures and Speech Recognition for Tasks Performed by an Integrated Leg-Arm Hexapod Robot. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6995.	2.5	5
18	Adaptive gait planning for quadruped robot based on center of inertia over rough terrain. <i>Biomimetic Intelligence and Robotics</i> , 2022, 2, 100031.	2.0	4

#	ARTICLE	IF	CITATIONS
19	Kinematics of the center of mass for robotic mechanisms based on lie group theory. Mechanism and Machine Theory, 2022, 175, 104933.	4.5	4
20	A Planar Mechanism with Variable Topology for Automated Fiber Placement. , 2018, , .		3
21	Design and Analysis of a Flying-crawling Spherical Robot for Multi-mode Movement. , 2019, , .		3
22	Approach to hand posture recognition based on hand shape features for human-robot interaction. Complex & Intelligent Systems, 2022, 8, 2825-2842.	6.5	3
23	Bionic Design and Analysis of a Novel Quadruped Robot with a Multistage Buffer System. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	3
24	A Novel Analytical Inverse Kinematics Method for SSRMS-Type Space Manipulators Based on the POE Formula and the Paden-Kahan Subproblem. International Journal of Aerospace Engineering, 2021, 2021, 1-13.	0.9	2
25	Different manipulation mode analysis of a radial symmetrical hexapod robot with leg-arm integration. Frontiers of Mechanical Engineering, 2022, 17, 1.	4.3	2
26	Design and Analysis of a Metamorphic Quadruped Robot. , 2018, , .		1
27	A Natural Language Processing Method of Chinese Instruction for Multi-legged Manipulating Robot. , 2018, , .		1
28	Multi-Loop Rover: A Kind of Modular Rolling Robot Constructed by Multi-Loop Linkages. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	1
29	Collaborative Robots Sim: A Simulation Environment Of Air-Ground Robots With Strong Physical Interactivity. , 2021, , .		1
30	A Passive Connection Mechanism for On-orbit Assembly of Large-Scale Antenna Structure. , 2018, , .		0