Tao Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7447935/publications.pdf

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22	371	840728 11	839512 18
papers	citations	h-index	g-index

23	23	23	175
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A High-Bandwidth End-Effector With Active Force Control for Robotic Polishing. IEEE Access, 2020, 8, 169122-169135.	4.2	41
2	The progress of extraterrestrial regolith-sampling robots. Nature Astronomy, 2019, 3, 487-497.	10.1	39
3	Drilling forces model for lunar regolith exploration and experimental validation. Acta Astronautica, 2017, 131, 190-203.	3.2	30
4	Review on planetary regolith-sampling technology. Progress in Aerospace Sciences, 2021, 127, 100760.	12.1	30
5	Drilling, sampling, and sample-handling system for China's asteroid exploration mission. Acta Astronautica, 2017, 137, 192-204.	3.2	29
6	Design and experimental performance verification of a thermal property test-bed for lunar drilling exploration. Chinese Journal of Aeronautics, 2016, 29, 1455-1468.	5.3	25
7	A Survey of Robotic Polishing. , 2018, , .		25
8	Chinaâ€™s ambitions and challenges for asteroidâ€“comet exploration. Nature Astronomy, 2021, 5, 730-731.	10.1	23
9	The technology of lunar regolith environment construction on Earth. Acta Astronautica, 2021, 178, 216-232.	3.2	19
10	A thermal model for predicting the drilling temperature in deep lunar regolith exploration. Applied Thermal Engineering, 2018, 128, 911-925.	6.0	14
11	Experimental technique for the measurement of temperature generated in deep lunar regolith drilling. International Journal of Heat and Mass Transfer, 2019, 129, 671-680.	4.8	12
12	Thermal vacuum regolith environment simulator for Chinaâ€™s deep lunar drilling exploration. Applied Thermal Engineering, 2018, 144, 779-787.	6.0	11
13	Robotic drilling tests in simulated lunar regolith environment. Journal of Field Robotics, 2021, 38, 1011-1035.	6.0	11
14	Review on Bioinspired Planetary Regolith-Burrowing Robots. Space Science Reviews, 2021, 217, 1.	8.1	11
15	Real-time normal contact force control for robotic surface processing of workpieces without a priori geometric model. International Journal of Advanced Manufacturing Technology, 2022, 119, 2537-2551.	3.0	8
16	Gas-Driven Regolith-Sampling Strategy for Exploring Micro-Gravity Asteroids. IEEE Access, 2020, 8, 56191-56202.	4.2	7
17	A Novel End-effector for Robotic Compliant Polishing. , 2018, , .		6
18	Influence of lunar regolith compressibility on sampling performance of thick wall spiral drills. Chinese Journal of Aeronautics, 2023, 36, 350-362.	5.3	4

#	Article	IF	Citations
19	Evacuation method and outgassing rate of a lunar regolith simulant for deep drilling tests. Acta Astronautica, 2019, 157, 455-464.	3.2	3
20	Automatic generation of auxiliary cutting paths based on sheet material semantic information. International Journal of Advanced Manufacturing Technology, 2020, 106, 3787-3797.	3.0	1
21	Mechanism Design of an Extraterrestrial Regolith-boring Robot. , 2021, , .		1
22	A Normal Tracking Method for Workpieces with Free-Form Surface in Robotic Polishing. Mechanisms and Machine Science, 2022, , 1753-1765.	0.5	1