## Tao Zhang

List of Publications by Year in descending order

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ΤλΟ ΖΗΛΝΟ

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A High-Bandwidth End-Effector With Active Force Control for Robotic Polishing. IEEE Access, 2020, 8,<br>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<br>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  | China's ambitions and challenges for asteroid–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<br>Thermal Engineering, 2018, 128, 911-925.   | 6.0  | 14        |
| 11 | Experimental technique for the measurement of temperature generated in deep lunar regolith<br>drilling. International Journal of Heat and Mass Transfer, 2019, 129, 671-680.                                  | 4.8  | 12        |
| 12 | Thermal vacuum regolith environment simulator for China's deep lunar drilling exploration. Applied<br>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<br>priori geometric model. International Journal of Advanced Manufacturing Technology, 2022, 119,<br>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.<br>Chinese Journal of Aeronautics, 2023, 36, 350-362.  | 5.3  | 4         |

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|----|--|-----|-----------|
| 19 | Evacuation method and outgassing rate of a lunar regolith simulant for deep drilling tests. Acta<br>Astronautica, 2019, 157, 455-464.  | 3.2 | 3         |
| 20 | Automatic generation of auxiliary cutting paths based on sheet material semantic information.<br>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         |