

Xuyan Hou

List of Publications by Year in descending order

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33
papers

258
citations

1040056

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996975

15
g-index

34
all docs

34
docs citations

34
times ranked

145
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	Review on planetary regolith-sampling technology. <i>Progress in Aerospace Sciences</i> , 2021, 127, 100760.	12.1	30
3	Soil chip convey of lunar subsurface auger drill. <i>Advances in Space Research</i> , 2016, 57, 2196-2203.	2.6	24
4	Anisotropic Superhydrophobic Properties of Bioinspired Surfaces by Laser Ablation of Metal Substrate inside Water. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100555.	3.7	21
5	DEM thermal simulation of bit and object in drilling of lunar soil simulant. <i>Advances in Space Research</i> , 2018, 62, 967-975.	2.6	17
6	Thermal simulation of drilling into lunar rock simulant by discrete element method. <i>Acta Astronautica</i> , 2019, 160, 378-387.	3.2	15
7	Study of the creeping of irregularly shaped Martian dust particles based on DEM-CFD. <i>Powder Technology</i> , 2018, 328, 184-198.	4.2	13
8	Prediction of the temperature of a drill in drilling lunar rock simulant in a vacuum. <i>Thermal Science</i> , 2017, 21, 989-1002.	1.1	13
9	Research on multi-pipe drilling and pneumatic sampling technology for deep Martian soil. <i>Advances in Space Research</i> , 2019, 64, 211-222.	2.6	11
10	Research on motion characteristics of space truss-crawling robot. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141882157.	2.1	10
11	Constitutive properties of irregularly shaped lunar soil simulant particles. <i>Powder Technology</i> , 2019, 346, 137-149.	4.2	9
12	Development of a rotary-percussive drilling mechanism (RPDM). , 2012, , .		8
13	Flexible airbag cushioning for Martian landing based on discrete element method. <i>Advances in Space Research</i> , 2019, 63, 2566-2583.	2.6	7
14	Study on electrostatic adhesion mechanism of lunar dust based on DEM. , 2016, , .		6
15	A planetary gear based underactuated self-adaptive robotic finger. , 2013, , .		5
16	Theoretical and discrete element simulation studies of aircraft landing impact. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	5
17	Adhesion properties of carbon nanotube arrays for an adhesive foot of a space crawling robot. <i>Smart Materials and Structures</i> , 2020, 29, 025001.	3.5	5
18	Research on the Undulatory Motion Mechanism of Seahorse Based on Dynamic Mesh. <i>Applied Bionics and Biomechanics</i> , 2021, 2021, 1-19.	1.1	4

#	ARTICLE	IF	CITATIONS
19	Study on the dynamic characteristics of a hammer-driven-type penetrators in the penetration process. Advances in Mechanical Engineering, 2017, 9, 168781401769411.	1.6	3
20	The study of the drilling core features of a multi-pipe deep lunar soil sampling driller for manned lunar exploration based on the discrete element technology. , 2015, , .		2
21	Coordinated motion control model of a six-wheeled rocker lunar rover. Advances in Mechanical Engineering, 2016, 8, 168781401666466.	1.6	2
22	Research for a modeling method of mars flexible airbag based on discrete element theory. , 2017, , .		2
23	DEM parameter matching of high-dense lunar soil simulant. , 2015, , .		1
24	The research and design of pneumatic multi-pipe deep lunar soil drilling device. , 2016, , .		1
25	The research on the effects of motion parameter on adhesive ability of a lunar crater exploration rover wheel based on DEM simulation. , 2016, , .		1
26	Investigation on Computing Method of Martian Dust Fluid Based on the Energy Dissipation Method. International Journal of Aerospace Engineering, 2020, 2020, 1-13.	0.9	1
27	Research on the Rapid Closing Jet Mechanism of Pistol Shrimp's Claws Based on Fluid Dynamic Grid. Mathematical Problems in Engineering, 2021, 2021, 1-17.	1.1	1
28	Mechanism Design of an Extraterrestrial Regolith-boring Robot. , 2021, , .		1
29	Anisotropic Superhydrophobic Properties of Bioinspired Surfaces by Laser Ablation of Metal Substrate inside Water (Adv. Mater. Interfaces 16/2021). Advanced Materials Interfaces, 2021, 8, 2170090.	3.7	1
30	Study on charging mechanism model of lunar dust for technology of particle removal from detector. , 2016, , .		0
31	Study on Adhesion Effect of Martian Dust to Spacecraft Based on DEM-CFD Technology. , 2018, , .		0
32	Research on forebody active disturbed flow characteristics of slender body in supersonic field. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	0
33	A study of the microstructure modification of a space crawling robot adhesive feet based on discrete element method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	0