Xuyan Hou

List of Publications by Year
in descending order

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33	258	1040056	996975
papers	citations	9	15
		h-index	g-index

34	34	34	145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Research on the Rapid Closing Jet Mechanism of Pistol Shrimpâ€™s Claws Based on Fluid Dynamic Grid. Mathematical Problems in Engineering, 2021, 2021, 1-17.	1.1	1
2	Mechanism Design of an Extraterrestrial Regolith-boring Robot. , 2021, , .		1
3	Anisotropic Superhydrophobic Properties of Bioinspired Surfaces by Laser Ablation of Metal Substrate inside Water. Advanced Materials Interfaces, 2021, 8, 2100555.	3.7	21
4	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
5	Research on the Undulatory Motion Mechanism of Seahorse Based on Dynamic Mesh. Applied Bionics and Biomechanics, 2021, 2021, 1-19.	1.1	4
6	Review on planetary regolith-sampling technology. Progress in Aerospace Sciences, 2021, 127, 100760.	12.1	30
7	Adhesion properties of carbon nanotube arrays for an adhesive foot of a space crawling robot. Smart Materials and Structures, 2020, 29, 025001.	3.5	5
8	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
9	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
10	Flexible airbag cushioning for Martian landing based on discrete element method. Advances in Space Research, 2019, 63, 2566-2583.	2.6	7
11	Research on motion characteristics of space truss-crawling robot. International Journal of Advanced Robotic Systems, 2019, 16, 172988141882157.	2.1	10
12	The progress of extraterrestrial regolith-sampling robots. Nature Astronomy, 2019, 3, 487-497.	10.1	39
13	Thermal simulation of drilling into lunar rock simulant by discrete element method. Acta Astronautica, 2019, 160, 378-387.	3.2	15
14	Research on multi-pipe drilling and pneumatic sampling technology for deep Martian soil. Advances in Space Research, 2019, 64, 211-222.	2.6	11
15	Constitutive properties of irregularly shaped lunar soil simulant particles. Powder Technology, 2019, 346, 137-149.	4.2	9
16	Study of the creeping of irregularly shaped Martian dust particles based on DEM-CFD. Powder Technology, 2018, 328, 184-198.	4.2	13
17	Theoretical and discrete element simulation studies of aircraft landing impact. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	5
18	Study on Adhesion Effect of Martian Dust to Spacecraft Based on DEM-CFD Technology. , 2018, , .		0

#	Article	IF	Citations
19	DEM thermal simulation of bit and object in drilling of lunar soil simulant. Advances in Space Research, 2018, 62, 967-975.	2.6	17
20	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
21	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
22	Research for a modeling method of mars flexible airbag based on discrete element theory. , 2017, , .		2
23	Prediction of the temperature of a drill in drilling lunar rock simulant in a vacuum. Thermal Science, 2017, 21, 989-1002.	1.1	13
24	Coordinated motion control model of a six-wheeled rocker lunar rover. Advances in Mechanical Engineering, 2016, 8, 168781401666466.	1.6	2
25	Study on electrostatic adhesion mechanism of lunar dust based on DEM. , 2016, , .		6
26	The research and design of pneumatic multi-pipe deep lunar soil drilling device. , 2016, , .		1
27	Study on charging mechanism model of lunar dust for technology of particle removal from detector. , 2016, , .		0
28	The research on the effects of motion parameter on adhesive ability of a lunar crater exploration rover wheel based on DEM simulation. , 2016, , .		1
29	Soil chip convey of lunar subsurface auger drill. Advances in Space Research, 2016, 57, 2196-2203.	2.6	24
30	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
31	DEM parameter matching of high-dense lunar soil simulant. , 2015, , .		1
32	A planetary gear based underactuated self-adaptive robotic finger. , 2013, , .		5
33	Development of a rotary-percussive drilling mechanism (RPDM). , 2012, , .		8