

# Yi Xu

## List of Publications by Year in descending order

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31  
papers

556  
citations

758635

12  
h-index

642321

23  
g-index

31  
all docs

31  
docs citations

31  
times ranked

475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Dielectric Properties and Structure of Lunar Regolith at Chang'e-3 and Chang'e-4 Landing Sites Revealed by Ground-Penetrating Radar. <i>Geophysical Research Letters</i> , 2019, 46, 12783-12793.	1.5	77
2	A new terrestrial analogue site for Mars research: The Qaidam Basin, Tibetan Plateau (NW China). <i>Earth-Science Reviews</i> , 2017, 164, 84-101.	4.0	76
3	Structural analysis of lunar subsurface with Chang'e-3 lunar penetrating radar. <i>Planetary and Space Science</i> , 2016, 120, 96-102.	0.9	54
4	First look by the Yutu-2 rover at the deep subsurface structure at the lunar farside. <i>Nature Communications</i> , 2020, 11, 3426.	5.8	47
5	Stratigraphy of the Von K�rm�n Crater Based on Chang'e-4 Lunar Penetrating Radar Data. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088680.	1.5	34
6	A composite and scalable cache coherence protocol for large scale CMPs. , 2011, , .		28
7	Inversion of lunar regolith layer thickness with CELMS data using BPNN method. <i>Planetary and Space Science</i> , 2014, 101, 1-11.	0.9	28
8	Geological Features and Evolution of Yardangs in the Qaidam Basin, Tibetan Plateau (NW China): A Terrestrial Analogue for Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2336-2364.	1.5	23
9	Rock abundance and evolution of the shallow stratum on Chang'e-4 landing site unveiled by lunar penetrating radar data. <i>Earth and Planetary Science Letters</i> , 2021, 564, 116912.	1.8	22
10	The Polygonal Surface Structures in the Dalangtan Playa, Qaidam Basin, NW China: Controlling Factors for Their Formation and Implications for Analogous Martian Landforms. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1910-1933.	1.5	17
11	The Global Search for Liquid Water on Mars from Orbit: Current and Future Perspectives. <i>Life</i> , 2020, 10, 120.	1.1	16
12	Bacterial and Archaeal Lipids Recovered from Subsurface Evaporites of Dalangtan Playa on the Tibetan Plateau and Their Astrobiological Implications. <i>Astrobiology</i> , 2017, 17, 1112-1122.	1.5	15
13	Weak Dust Activity Near a Geologically Young Surface Revealed by Chang'e-3 Mission. <i>Geophysical Research Letters</i> , 2019, 46, 9405-9413.	1.5	15
14	Analysis of plume-lunar surface interaction and soil erosion during the Chang'e-4 landing process. <i>Acta Astronautica</i> , 2021, 185, 337-351.	1.7	14
15	Simulation of Martian Near-Surface Structure and Imaging of Future GPR Data From Mars. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-12.	2.7	12
16	Study of Chang'e-2 Microwave Radiometer Data in the Lunar Polar Region. <i>Advances in Astronomy</i> , 2019, 2019, 1-10.	0.5	10
17	Permittivity Estimation of Subsurface Deposits in the Elysium-Utopia Region on Mars with MRO Shallow Radar Sounder Data. <i>Astronomical Journal</i> , 2020, 159, 156.	1.9	9
18	A Complex Paleosurface Revealed by the Yutu-2 Rover at the Lunar Farside. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095133.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Lunar regolith stratigraphy analysis based on the simulation of lunar penetrating radar signals. <i>Advances in Space Research</i> , 2017, 60, 2099-2107.	1.2	8
20	Dielectric Properties of Lunar Materials at the Chang'e-4 Landing Site. <i>Remote Sensing</i> , 2021, 13, 4056.	1.8	8
21	Band Arb. , 2015, , .		6
22	Comparative study between rivers in Tarim Basin in northwest China and Evros Vallis on Mars. <i>Icarus</i> , 2019, 328, 127-140.	1.1	6
23	The Subsurface Structure on the CE-3 Landing Site: LPR CH-1 Data Processing by Shearlet Transform. <i>Pure and Applied Geophysics</i> , 2020, 177, 3459-3474.	0.8	6
24	Diverse Polygonal Patterned Grounds in the Northern Eridania Basin, Mars: Possible Origins and Implications. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006647.	1.5	5
25	Ground-penetrating radar measurements of subsurface structures of lacustrine sediments in the Qaidam Basin (NW China): Possible implications for future in-situ radar experiments on Mars. <i>Icarus</i> , 2020, 338, 113576.	1.1	4
26	Comparitive Study of the Geomorphological Characteristics of Valley Networks between Mars and the Qaidam Basin. <i>Remote Sensing</i> , 2021, 13, 4471.	1.8	3
27	Calculation of dielectric constant, loss property and scattering characteristics from the future martian GPR data. <i>Icarus</i> , 2022, 386, 115181.	1.1	2
28	A Recalibration Model Based on the Statistical Regression Analysis Method to Align the Microwave Data of Chang'e-1 and Chang'e-2. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-11.	2.7	1
29	SHARAD Observations of Temporal Variations of CO <sub>2</sub> Ice Deposits at the South Pole of Mars. <i>Remote Sensing</i> , 2022, 14, 435.	1.8	1
30	A Process-Variation-Tolerant Method for Nanophotonic On-Chip Network. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2018, 14, 1-23.	1.8	0
31	Characteristics of Dust Devils in Two Pre-Selected Landing Regions of the Tianwen-1 Mission—Comparing Observations and Predictions Using Numerical Model. <i>Remote Sensing</i> , 2022, 14, 2117.	1.8	0