

Xian Shi

List of Publications by Year in descending order

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29
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471509

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766
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#	ARTICLE	IF	CITATIONS
1	Thermophysical Characterization of Cyclic Frost Formation in the Subsurface and Nominal Water Activity on Comets: Case Study of 67P/Churyumov-Gerasimenko. <i>Astrophysical Journal</i> , 2021, 910, 10.	4.5	2
2	Effect of radiative heat transfer in porous comet nuclei: case study of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A5.	5.1	17
3	Multidisciplinary analysis of the Hapi region located on Comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2139-2154.	4.4	9
4	Pronounced morphological changes in a southern active zone on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A8.	5.1	7
5	Phase-curve analysis of comet 67P/Churyumov-Gerasimenko at small phase angles. <i>Astronomy and Astrophysics</i> , 2019, 630, A11.	5.1	1
6	Surface evolution of the Anhur region on comet 67P/Churyumov-Gerasimenko from high-resolution OSIRIS images. <i>Astronomy and Astrophysics</i> , 2019, 630, A13.	5.1	15
7	Diurnal variation of dust and gas production in comet 67P/Churyumov-Gerasimenko at the inbound equinox as seen by OSIRIS and VIRTIS-M on board Rosetta. <i>Astronomy and Astrophysics</i> , 2019, 630, A23.	5.1	9
8	Seasonal variations in source regions of the dust jets on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A17.	5.1	9
9	Quantitative analysis of isolated boulder fields on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A15.	5.1	4
10	Linking surface morphology, composition, and activity on the nucleus of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A7.	5.1	18
11	Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33.	5.1	40
12	Coma morphology of comet 67P controlled by insolation over irregular nucleus. <i>Nature Astronomy</i> , 2018, 2, 562-567.	10.1	19
13	Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36.	5.1	15
14	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395.	12.6	63
15	Evidence for the formation of comet 67P/Churyumov-Gerasimenko through gravitational collapse of a bound clump of pebbles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S755-S773.	4.4	146
16	Seasonal erosion and restoration of the dust cover on comet 67P/Churyumov-Gerasimenko as observed by OSIRIS onboard Rosetta. <i>Astronomy and Astrophysics</i> , 2017, 604, A114.	5.1	43
17	The highly active Anhur-Bes regions in the 67P/Churyumov-Gerasimenko comet: results from OSIRIS/ROSETTA observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S93-S107.	4.4	30
18	Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S295-S311.	4.4	39

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19	Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumov-Gerasimenko using OSIRIS images. Monthly Notices of the Royal Astronomical Society, 2017, 469, S238-S251.	4.4	8
20	Long-term survival of surface water ice on comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S582-S597.	4.4	24
21	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. Astronomy and Astrophysics, 2016, 586, A7.	5.1	55
22	Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 587, A14.	5.1	102
23	Modelling observations of the inner gas and dust coma of comet 67P/Churyumov-Gerasimenko using ROSINA/COPS and OSIRIS data: First results. Astronomy and Astrophysics, 2016, 589, A90.	5.1	53
24	Mass wasting on Phobos triggered by an evolving tidal environment. Geophysical Research Letters, 2016, 43, 12,371.	4.0	13
25	Rosetta's comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. Science, 2016, 354, 1566-1570.	12.6	97
26	Scientific assessment of the quality of OSIRIS images. Astronomy and Astrophysics, 2015, 583, A46.	5.1	67
27	Phobos' shape and topography models. Planetary and Space Science, 2014, 102, 51-59.	1.7	73
28	Working models for the gravitational field of Phobos. Science China: Physics, Mechanics and Astronomy, 2012, 55, 358-364.	5.1	23
29	GAUSS - genesis of asteroids and evolution of the solar system. Experimental Astronomy, 0, , 1.	3.7	5