

Xi Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

750
citations

759233

12
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

1006
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur chemistry in the middle atmosphere of Venus. <i>Icarus</i> , 2012, 217, 714-739.	2.5	176
2	Vertical profiling of SO ₂ and SO above Venus's clouds by SPICAV/SOIR solar occultations. <i>Icarus</i> , 2012, 217, 740-751.	2.5	103
3	Bimodal distribution of sulfuric acid aerosols in the upper haze of Venus. <i>Icarus</i> , 2014, 231, 83-98.	2.5	79
4	Photolysis of sulphuric acid as the source of sulphur oxides in the mesosphere of Venus. <i>Nature Geoscience</i> , 2010, 3, 834-837.	12.9	75
5	Diffusion-Limited Versus Quasi-Equilibrium Aerosol Growth. <i>Aerosol Science and Technology</i> , 2012, 46, 874-885.	3.1	61
6	Global-mean Vertical Tracer Mixing in Planetary Atmospheres. I. Theory and Fast-rotating Planets. <i>Astrophysical Journal</i> , 2018, 866, 1.	4.5	60
7	Global-mean Vertical Tracer Mixing in Planetary Atmospheres. II. Tidally Locked Planets. <i>Astrophysical Journal</i> , 2018, 866, 2.	4.5	53
8	Chemical Cycling in the Venusian Atmosphere: A Full Photochemical Model From the Surface to 110 km. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006159.	3.6	38
9	Dust tides and rapid meridional motions in the Martian atmosphere during major dust storms. <i>Nature Communications</i> , 2020, 11, 614.	12.8	26
10	HDO and SO ₂ thermal mapping on Venus. <i>Astronomy and Astrophysics</i> , 2020, 639, A69.	5.1	19
11	Large Eddy Simulations of the Dusty Martian Convective Boundary Layer With MarsWRF. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006752.	3.6	17
12	Revisiting the Sulfur-Water Chemical System in the Middle Atmosphere of Venus. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006195.	3.6	15
13	JOVIAN STRATOSPHERE AS A CHEMICAL TRANSPORT SYSTEM: BENCHMARK ANALYTICAL SOLUTIONS. <i>Astrophysical Journal</i> , 2013, 767, 172.	4.5	12
14	Abnormal Phase Structure of Thermal Tides During Major Dust Storms on Mars: Implications for the Excitation Source of High-altitude Water Ice Clouds. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006758.	3.6	6
15	A Simple Condensation Model for the H ₂ SO ₄ -H ₂ O Gas-Cloud System on Venus. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	6
16	Local-time Dependence of Chemical Species in the Venusian Mesosphere. <i>Planetary Science Journal</i> , 2022, 3, 3.	3.6	3