Zuzana KaÅˆuchovÃ¡

List of Publications by Year
in descending order

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Version: 2024-02-01

40 papers	642 citations	623734 14 h-index	610901 24 g-index
45 all docs	45 docs citations	45 times ranked	727 citing authors

#	Article	IF	Citations
1	The fate of S-bearing species after ion irradiation of interstellar icy grain mantles. Astronomy and Astrophysics, 2010, 509, A67.	5.1	68
2	Complementary and Emerging Techniques for Astrophysical Ices Processed in the Laboratory. Space Science Reviews, 2013, 180, 101-175.	8.1	68
3	A new study of an old sink of sulphur in hot molecular cores: the sulphur residue. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1256-1267.	4.4	67
4	Synthesis of formamide and isocyanic acid after ion irradiation of frozen gas mixtures. Astronomy and Astrophysics, 2016, 585, A155.	5.1	39
5	IAU Meteor Data Centerâ€"the shower database: A status report. Planetary and Space Science, 2017, 143, 3-6.	1.7	35
6	The meteor-shower complex of 96P/Machholz revisited. Astronomy and Astrophysics, 2013, 551, A87.	5.1	28
7	Thermal and energetic processing of astrophysical ice analogues rich in SO₂. Astronomy and Astrophysics, 2017, 604, A68.	5.1	27
8	Space weathering and the color indexes of minor bodies in the outer Solar System. Icarus, 2012, 221, 12-19.	2.5	23
9	The parent bodies of the Quadrantid meteoroid stream. Astronomy and Astrophysics, 2007, 470, 1123-1136.	5.1	23
10	Sulfur Ice Astrochemistry: A Review of Laboratory Studies. Space Science Reviews, 2021, 217, 1.	8.1	22
11	Electron irradiation and thermal chemistry studies of interstellar and planetary ice analogues at the ICA astrochemistry facility. European Physical Journal D, 2021, 75, 1.	1.3	21
12	Infrared study on the thermal evolution of solid state formamide. Physical Chemistry Chemical Physics, 2017, 19, 21759-21768.	2.8	18
13	Ion processing of ices and the origin of SO2 and O3 on the icy surfaces of the icy jovian satellites. Icarus, 2016, 277, 424-432.	2.5	17
14	Space weathering of asteroidal surfaces. Astronomy and Astrophysics, 2010, 517, A60.	5.1	16
15	Short-term variability on the surface of (1) Ceres. Astronomy and Astrophysics, 2015, 575, L1.	5.1	15
16	Spectral characterization of V-type asteroids â€“ I. Space weathering effects and implications for V-type NEAs. Monthly Notices of the Royal Astronomical Society, 2016, 455, 584-595.	4.4	15
17	The Ice Chamber for Astrophysicsâ€“Astrochemistry (ICA): A new experimental facility for ion impact studies of astrophysical ice analogs. Review of Scientific Instruments, 2021, 92, 084501.	1.3	15
18	The influence of temperature on the synthesis of molecules on icy grain mantles in dense molecular clouds. Astronomy and Astrophysics, 2011, 528, A118.	5.1	14

#	Article	IF	Citations
19	Vacuum ultraviolet photoabsorption spectroscopy of space-related ices: formation and destruction of solid carbonic acid upon 1 keV electron irradiation. Astronomy and Astrophysics, 2021, 646, A172.	5.1	14
20	The triple near-Earth asteroid (153591) 2001 SN263: an ultra-blue, primitive target for the Aster space mission. Astronomy and Astrophysics, 2014, 568, L6.	5.1	12
21	Vacuum ultraviolet photoabsorption spectroscopy of space-related ices: 1 keV electron irradiation of nitrogen- and oxygen-rich ices. Astronomy and Astrophysics, 2020, 641, A154.	5.1	11
22	Mid-IR and VUV spectroscopic characterisation of thermally processed and electron irradiated CO2 astrophysical ice analogues. Journal of Molecular Spectroscopy, 2022, 385, 111599.	1.2	9
23	Near-ultraviolet bluing after space weathering of silicates and meteorites. Icarus, 2015, 258, 289-296.	2.5	8
24	Laboratory experiments on the radiation astrochemistry of water ice phases. European Physical Journal D, 2022, 76, .	1.3	8
25	A global response roadmap to the asteroid impact threat: The NEOShield perspective. Planetary and Space Science, 2015, 118, 311-317.	1.7	7
26	Statistical analysis of the spectral properties of V-type asteroids: A review on what we known and what is still missing. Planetary and Space Science, 2018, 164, 37-43.	1.7	7
27	Comparative electron irradiations of amorphous and crystalline astrophysical ice analogues. Physical Chemistry Chemical Physics, 2022, 24, 10974-10984.	2.8	7
28	Systematic Study on the Absorption Features of Interstellar Ices in the Presence of Impurities. ACS Earth and Space Chemistry, 2020, 4, 920-946.	2.7	6
29	Filaments within the Perseid meteoroid stream and their coincidence with the location of mean-motion resonances. Icarus, 2006, 183, 115-121.	2.5	5
30	Cosmic ion induced chemistry in ices. Rendiconti Lincei, 2011, 22, 145-152.	2.2	5
31	Proton Gradients as a Key Physical Factor in the Evolution of the Forced Transport Mechanism Across the Lipid Membrane. Origins of Life and Evolution of Biospheres, 2016, 46, 523-531.	1.9	3
32	Space weathering and the colorâ€“color diagram of Plutinos and Jupiter Trojans. Icarus, 2015, 248, 222-229.	2.5	2
33	Orionids and Eta Aquariids in the IAU MDC database. Planetary and Space Science, 2017, 143, 138-141.	1.7	2
34	A Fine Structure of the Perseid Meteoroid Stream. Earth, Moon and Planets, 2006, 95, 69-74.	0.6	1
35	A New Bolide Station at the High Tatra Mountains. Earth, Moon and Planets, 2008, 102, 253-256.	0.6	1
36	Absolute photometry of small main-belt asteroids in 2007â€“2009. Planetary and Space Science, 2011, 59, 1482-1489.	1.7	1

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37	The role of energetic processing on solid-phase chemistry in star forming regions. EAS Publications Series, 2015, 75-76, 309-314.	0.3	0
38	Accretional and alterational differences in a carbonaceous chondrite parent body: Evidence from the <scp>NWA</scp> 5491 <scp>CV</scp>3 meteorite. Meteoritics and Planetary Science, 2017, 52, 428-442.	1.6	0
39	Leonids in the IAU MDC database. Planetary and Space Science, 2018, 160, 115-119.	1.7	0
40	A New Bolide Station at the High Tatra Mountains. , 2007, , 253-256.		0