

LÃ©na Le Roy

List of Publications by Year in descending order

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19
papers

1,981
citations

430874

18
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

2168
citing authors

#	ARTICLE	IF	CITATIONS
1	Prebiotic chemicals—amino acid and phosphorus—in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2016, 2, e1600285.	10.3	393
2	Organic compounds on comet 67P/Churyumov-Gerasimenko revealed by COSAC mass spectrometry. <i>Science</i> , 2015, 349, aab0689.	12.6	376
3	Inventory of the volatiles on comet 67P/Churyumov-Gerasimenko from Rosetta/ROSINA. <i>Astronomy and Astrophysics</i> , 2015, 583, A1.	5.1	265
4	Carbon-rich dust in comet 67P/Churyumov-Gerasimenko measured by COSIMA/Rosetta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S712-S722.	4.4	177
5	Comet 67P/Churyumov-Gerasimenko sheds dust coat accumulated over the past four years. <i>Nature</i> , 2015, 518, 216-218.	27.8	144
6	High-molecular-weight organic matter in the particles of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 538, 72-74.	27.8	124
7	Comparison of 3D kinetic and hydrodynamic models to ROSINA-COPS measurements of the neutral coma of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A7.	5.1	93
8	Change of outgassing pattern of 67P/Churyumov-Gerasimenko during the March 2016 equinox as seen by ROSINA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S108-S117.	4.4	66
9	Very high resolution mass spectrometry of HCN polymers and tholins. <i>Faraday Discussions</i> , 2010, 147, 495.	3.2	49
10	Nitrogen-to-carbon atomic ratio measured by COSIMA in the particles of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S506-S516.	4.4	49
11	Solar wind sputtering of dust on the surface of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A22.	5.1	47
12	Halogens as tracers of protosolar nebula material in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1336-1345.	4.4	44
13	Evidence for distributed gas sources of hydrogen halides in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S695-S711.	4.4	27
14	On the prospective detection of polyoxymethylene in comet 67P/Churyumov-Gerasimenko with the COSIMA instrument onboard Rosetta. <i>Planetary and Space Science</i> , 2012, 65, 83-92.	1.7	25
15	Formation of analogs of cometary nitrogen-rich refractory organics from thermal degradation of tholin and HCN polymer. <i>Icarus</i> , 2015, 250, 53-63.	2.5	23
16	Compositional and structural investigation of HCN polymer through high resolution mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 193-203.	1.5	22
17	Sensitivity and fragmentation calibration of the time-of-flight mass spectrometer RTOF on board ESA's Rosetta mission. <i>Planetary and Space Science</i> , 2017, 135, 64-73.	1.7	22
18	Mechanical and electrostatic experiments with dust particles collected in the inner coma of comet 67P by COSIMA onboard Rosetta. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160255.	3.4	19

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19	COSIMA calibration for the detection and characterization of the cometary solid organic matter. Planetary and Space Science, 2015, 105, 1-25.	1.7	16