

CÃ©cile Engrand

List of Publications by Year in descending order

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papers

2,442
citations

257450

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docs citations

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#	ARTICLE	IF	CITATIONS
1	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
2	Carbonaceous micrometeorites from Antarctica. <i>Meteoritics and Planetary Science</i> , 1998, 33, 565-580.	1.6	176
3	Extreme Deuterium Excesses in Ultracarbonaceous Micrometeorites from Central Antarctic Snow. <i>Science</i> , 2010, 328, 742-745.	12.6	160
4	Comet 67P/Churyumov-Gerasimenko sheds dust coat accumulated over the past four years. <i>Nature</i> , 2015, 518, 216-218.	27.8	144
5	Typology of dust particles collected by the COSIMA mass spectrometer in the inner coma of 67P/Churyumov Gerasimenko. <i>Icarus</i> , 2016, 271, 76-97.	2.5	141
6	Cosima â€“ High Resolution Time-of-Flight Secondary Ion Mass Spectrometer for the Analysis of Cometary Dust Particles onboard Rosetta. <i>Space Science Reviews</i> , 2007, 128, 823-867.	8.1	139
7	High-molecular-weight organic matter in the particles of comet 67P/Churyumovâ€“Gerasimenko. <i>Nature</i> , 2016, 538, 72-74.	27.8	124
8	Cometary Isotopic Measurements. <i>Space Science Reviews</i> , 2015, 197, 47-83.	8.1	112
9	UltraCarbonaceous Antarctic micrometeorites, probing the Solar System beyond the nitrogen snow-line. <i>Icarus</i> , 2013, 224, 243-252.	2.5	103
10	Micrometeorites from Central Antarctic snow: The CONCORDIA collection. <i>Advances in Space Research</i> , 2007, 39, 605-611.	2.6	95
11	Cometary Dust. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	88
12	COMET 67P/CHURYUMOVâ€“GERASIMENKO: CLOSE-UP ON DUST PARTICLE FRAGMENTS. <i>Astrophysical Journal Letters</i> , 2016, 816, L32.	8.3	84
13	Clues to the origin of interplanetary dust particles from the isotopic study of their hydrogen-bearing phases. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4399-4412.	3.9	81
14	Transmission Electron Microscopy of CONCORDIA UltraCarbonaceous Antarctic MicroMeteorites (UCAMMs): Mineralogical properties. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 76, 68-82.	3.9	78
15	A first assessment of the strength of cometary particles collected in-situ by the COSIMA instrument onboard ROSETTA. <i>Planetary and Space Science</i> , 2016, 133, 63-75.	1.7	65
16	Dust of comet 67P/Churyumov-Gerasimenko collected by Rosetta/MIDAS: classification and extension to the nanometer scale. <i>Astronomy and Astrophysics</i> , 2019, 630, A26.	5.1	61
17	Nitrogen-to-carbon atomic ratio measured by COSIMA in the particles of comet 67P/Churyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S506-S516.	4.4	49
18	Interplanetary Dust, Meteoroids, Meteors and Meteorites. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	49

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19	Orbitrap mass analyser for in situ characterisation of planetary environments: Performance evaluation of a laboratory prototype. <i>Planetary and Space Science</i> , 2016, 131, 33-45.	1.7	47
20	On the Origin and Evolution of the Material in 67P/Churyumov-Gerasimenko. <i>Space Science Reviews</i> , 2020, 216, 102.	8.1	42
21	Dome C ultracarbonaceous Antarctic micrometeorites. <i>Astronomy and Astrophysics</i> , 2018, 609, A65.	5.1	38
22	Collecting cometary dust particles on metal blacks with the COSIMA instrument onboard ROSETTA. <i>Planetary and Space Science</i> , 2014, 103, 309-317.	1.7	28
23	Variations in cometary dust composition from <i>Giotto</i> to <i>Rosetta</i> , clues to their formation mechanisms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S323-S330.	4.4	28
24	Evidence for depletion of heavy silicon isotopes at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 601, A123.	5.1	26
25	PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 054301.	3.1	26
26	Searching for calcium-aluminum-rich inclusions in cometary particles with Rosetta/COSIMA. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1340-1352.	1.6	22
27	H/C elemental ratio of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A27.	5.1	22
28	Irradiation of nitrogen-rich ices by swift heavy ions. <i>Astronomy and Astrophysics</i> , 2016, 592, A99.	5.1	20
29	Composition of Cosmic Dust: Sources and Implications for the Early Solar System. <i>Elements</i> , 2016, 12, 177-183.	0.5	20
30	Nanometre-scale infrared chemical imaging of organic matter in ultra-carbonaceous Antarctic micrometeorites (UCAMMs). <i>Astronomy and Astrophysics</i> , 2019, 622, A160.	5.1	20
31	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
32	Identification of organic molecules with a laboratory prototype based on the Laser Ablation-CosmOrbitrap. <i>Planetary and Space Science</i> , 2019, 170, 42-51.	1.7	18
33	Optical properties of cometary particles collected by the COSIMA mass spectrometer on-board Rosetta during the rendezvous phase around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S535-S549.	4.4	17
34	Organic Matter in Cosmic Dust. <i>Elements</i> , 2016, 12, 185-189.	0.5	16
35	COSIMA-Rosetta calibration for in situ characterization of 67P/Churyumov-Gerasimenko cometary inorganic compounds. <i>Planetary and Space Science</i> , 2015, 117, 35-44.	1.7	15
36	Similarities in element % content between comet 67P/Churyumov-Gerasimenko coma dust and selected meteorite samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S492-S505.	4.4	14

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37	Chemometric evaluation of time-of-flight secondary ion mass spectrometry data of minerals in the frame of future in situ analyses of cometary material by COSIMA onboard ROSETTA. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1361-1368.	1.5	13
38	Random projection for dimensionality reductionâ€”Applied to time-of-flight secondary ion mass spectrometry data. <i>Analytica Chimica Acta</i> , 2011, 705, 48-55.	5.4	13
39	The Rosetta Mission and the Chemistry of Organic Species in Comet 67P/Churyumovâ€”Gerasimenko. <i>Elements</i> , 2018, 14, 95-100.	0.5	12
40	D/H in the refractory organics of comet 67P/Churyumov-Gerasimenko measured by Rosetta/COSIMA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4940-4951.	4.4	11
41	The oxygen isotopic composition ($^{18}\text{O}/^{16}\text{O}$) in the dust of comet 67P/Churyumov-Gerasimenko measured by COSIMA on-board Rosetta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 3836-3844.	4.4	10
42	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas â€” Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 334, 155-186.	3.9	7
43	Optical properties of cometary particles collected by COSIMA: Assessing the differences between microscopic and macroscopic scales. <i>Planetary and Space Science</i> , 2020, 182, 104815.	1.7	4
44	AMBITION â€” comet nucleus cryogenic sample return. <i>Experimental Astronomy</i> , 2022, 54, 1077-1128.	3.7	4
45	The asteroid-comet continuum from laboratory and space analyses of comet samples and micrometeorites. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 253-256.	0.0	2
46	Electrical properties of cometary dust particles derived from line shapes of TOF-SIMS spectra measured by the ROSETTA/COSIMA instrument. <i>Planetary and Space Science</i> , 2020, 182, 104758.	1.7	2