

Olivier Groussin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Evidence for thermokarst depressions on comet 67P/Churyumov-Gerasimenko: An interplanetary comparison. <i>Astronomy and Astrophysics</i> , 2022, 662, A72.	5.1	1
2	Ancient and present surface evolution processes in the Ash region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2021, 649, A82.	5.1	4
3	Surface Morphology of Comets and Associated Evolutionary Processes: A Review of Rosetta's Observations of 67P/Churyumov-Gerasimenko. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	28
4	The Thermal, Mechanical, Structural, and Dielectric Properties of Cometary Nuclei After Rosetta. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	61
5	A comparison of multiple Rosetta data sets and 3D model calculations of 67P/Churyumov-Gerasimenko coma around equinox (May 2015). <i>Icarus</i> , 2019, 328, 104-126.	2.5	20
6	Comet 67P/CG Nucleus Composition and Comparison to Other Comets. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	32
7	Bilobate comet morphology and internal structure controlled by shear deformation. <i>Nature Geoscience</i> , 2019, 12, 157-162.	12.9	22
8	< i>Spitzer</i> Space Telescope observations of bilobate comet 8P/Tuttle. <i>Astronomy and Astrophysics</i> , 2019, 632, A104.	5.1	3
9	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 311, 1-22.	2.5	21
10	Meter-scale thermal contraction crack polygons on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 301, 173-188.	2.5	33
11	Thermal fracturing on comets. <i>Astronomy and Astrophysics</i> , 2018, 610, A76.	5.1	24
12	Thermal inertia and roughness of the nucleus of comet 67P/Churyumov-Gerasimenko from MIRO and VIRTIS observations. <i>Astronomy and Astrophysics</i> , 2018, 616, A122.	5.1	42
13	Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33.	5.1	40
14	Regional unit definition for the nucleus of comet 67P/Churyumov-Gerasimenko on the SHAP7 model. <i>Planetary and Space Science</i> , 2018, 164, 19-36.	1.7	32
15	Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36.	5.1	15
16	Distance determination method of dust particles using Rosetta OSIRIS NAC and WAC data. <i>Planetary and Space Science</i> , 2017, 143, 256-264.	1.7	8
17	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395.	12.6	63
18	Constraints on cometary surface evolution derived from a statistical analysis of 67P's topography. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S329-S338.	4.4	33

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19	The scattering phase function of comet 67P/Churyumov-Gerasimenko coma as seen from the Rosetta/OSIRIS instrument. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S404-S415.	4.4	44
20	Seasonal mass transfer on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371.	4.4	111
21	Dust mass distribution around comet 67P/Churyumov-Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S276-S284.	4.4	43
22	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
23	Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumov-Gerasimenko using OSIRIS images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S238-S251.	4.4	8
24	The pebbles/boulders size distributions on Sais: Rosetta's final landing site on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S636-S645.	4.4	40
25	The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 607, L1.	5.1	107
26	Acceleration of individual, decimetre-sized aggregates in the lower coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S78-S88.	4.4	52
27	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. <i>Astronomy and Astrophysics</i> , 2016, 586, A7.	5.1	55
28	Sublimation of icy aggregates in the coma of comet 67P/Churyumov-Gerasimenko detected with the OSIRIS cameras on board <i>Rosetta</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S57-S66.	4.4	23
29	Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 587, A14.	5.1	102
30	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. <i>Astronomy and Astrophysics</i> , 2016, 593, A110.	5.1	86
31	Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. <i>Astronomy and Astrophysics</i> , 2016, 592, A69.	5.1	53
32	Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 588, L3.	5.1	34
33	The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations. <i>Icarus</i> , 2016, 277, 257-278.	2.5	252
34	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOV-GERASIMENKO FROM 2.2 au TO PERIHELION. <i>Astrophysical Journal</i> , 2016, 821, 19.	4.5	158
35	Rosetta's comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. <i>Science</i> , 2016, 354, 1566-1570.	12.6	97
36	CHANGES IN THE PHYSICAL ENVIRONMENT OF THE INNER COMA OF 67P/CHURYUMOV-GERASIMENKO WITH DECREASING HELIOCENTRIC DISTANCE. <i>Astronomical Journal</i> , 2016, 152, 130.	4.7	36

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37	The primordial nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 592, A63.	5.1	159
38	THERMAP: a mid-infrared spectro-imager for space missions to small bodies in the inner solar system. <i>Experimental Astronomy</i> , 2016, 41, 95-115.	3.7	3
39	Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46.	5.1	67
40	Shape model, reference system definition, and cartographic mapping standards for comet 67P/Churyumov-Gerasimenko – Stereo-photogrammetric analysis of Rosetta/OSIRIS image data. <i>Astronomy and Astrophysics</i> , 2015, 583, A33.	5.1	188
41	OSIRIS observations of meter-sized exposures of H ₂ O ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments. <i>Astronomy and Astrophysics</i> , 2015, 583, A25.	5.1	97
42	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17.	5.1	149
43	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	5.1	173
44	Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. <i>Astronomy and Astrophysics</i> , 2015, 583, A11.	5.1	33
45	Spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from the OSIRIS instrument onboard the ROSETTA spacecraft. <i>Astronomy and Astrophysics</i> , 2015, 583, A30.	5.1	188
46	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A26.	5.1	153
47	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35.	5.1	59
48	Size-frequency distribution of boulders >7 m on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A37.	5.1	108
49	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36.	5.1	60
50	Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178.	4.0	71
51	Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A16.	5.1	23
52	Interpretation of thermal emission. I. The effect of roughness for spatially resolved atmosphereless bodies. <i>Icarus</i> , 2015, 252, 1-21.	2.5	62
53	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. <i>Science</i> , 2015, 347, aaa3905.	12.6	310
54	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa1044.	12.6	366

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55	The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440.	12.6	259
56	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. <i>Nature</i> , 2015, 523, 63-66.	27.8	158
57	Experimental study of an uncooled microbolometer array for thermal mapping and spectroscopy of asteroids. <i>Experimental Astronomy</i> , 2014, 38, 381-400.	3.7	4
58	The temperature, thermal inertia, roughness and color of the nuclei of Comets 103P/Hartley 2 and 9P/Tempel 1. <i>Icarus</i> , 2013, 222, 580-594.	2.5	81
59	Shape, density, and geology of the nucleus of Comet 103P/Hartley 2. <i>Icarus</i> , 2013, 222, 550-558.	2.5	112
60	Thermal inertia and surface roughness of Comet 9P/Tempel 1. <i>Icarus</i> , 2013, 224, 154-171.	2.5	45
61	The nucleus of Comet 9P/Tempel 1: Shape and geology from two flybys. <i>Icarus</i> , 2013, 222, 453-466.	2.5	89
62	Thermal properties, sizes, and size distribution of Jupiter-family cometary nuclei. <i>Icarus</i> , 2013, 226, 1138-1170.	2.5	112
63	â€œTNOs are Coolâ€¢ A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2013, 557, A60.	5.1	109
64	EPOXI at Comet Hartley 2. <i>Science</i> , 2011, 332, 1396-1400.	12.6	401
65	Earth-based detection of the millimetric thermal emission from the nucleus of comet 8P/Tuttle. <i>Astronomy and Astrophysics</i> , 2011, 528, A54.	5.1	10
66	Asteroid (21) Lutetia as a remnant of Earthâ€™s precursor planetesimals. <i>Icarus</i> , 2011, 216, 650-659.	2.5	45
67	<i>Spitzer Space Telescope</i> Observations of the Nucleus of Comet 103P/Hartley 2. <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 968-975.	3.1	62
68	<i>Spitzer Space Telescope</i> observations of the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2008, 489, 777-785.	5.1	34
69	Surface temperature of the nucleus of Comet 9P/Tempel 1. <i>Icarus</i> , 2007, 187, 16-25.	2.5	110
70	Exposed Water Ice Deposits on the Surface of Comet 9P/Tempel 1. <i>Science</i> , 2006, 311, 1453-1455.	12.6	238
71	Deep Impact: Excavating Comet Tempel 1. <i>Science</i> , 2005, 310, 258-264.	12.6	728