

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.	2.1	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.	2.1	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.	3.7	28
4	The Thermal, Mechanical, Structural, and Dielectric Properties of Cometary Nuclei After Rosetta. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	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.	1.1	20
6	Comet 67P/CG Nucleus Composition and Comparison to Other Comets. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	32
7	Bilobate comet morphology and internal structure controlled by shear deformation. <i>Nature Geoscience</i> , 2019, 12, 157-162.	5.4	22
8	<i>Spitzer</i> Space Telescope observations of bilobate comet 8P/Tuttle. <i>Astronomy and Astrophysics</i> , 2019, 632, A104.	2.1	3
9	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 311, 1-22.	1.1	21
10	Meter-scale thermal contraction crack polygons on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Icarus</i> , 2018, 301, 173-188.	1.1	33
11	Thermal fracturing on comets. <i>Astronomy and Astrophysics</i> , 2018, 610, A76.	2.1	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.	2.1	42
13	Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33.	2.1	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.	0.9	32
15	Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36.	2.1	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.	0.9	8
17	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395.	6.0	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.	1.6	33

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19	The scattering phase function of comet 67P/Churyumovâ€™Gerasimenko coma as seen from the Rosetta/OSIRIS instrument. Monthly Notices of the Royal Astronomical Society, 2017, 469, S404-S415.	1.6	44
20	Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€™Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S357-S371.	1.6	111
21	Dust mass distribution around comet 67P/Churyumovâ€™Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras. Monthly Notices of the Royal Astronomical Society, 2017, 469, S276-S284.	1.6	43
22	The highly active Anhurâ€™Bes regions in the 67P/Churyumovâ€™Gerasimenko comet: results from OSIRIS/ROSETTA observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S93-S107.	1.6	30
23	Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumovâ€™Gerasimenko using OSIRIS images. Monthly Notices of the Royal Astronomical Society, 2017, 469, S238-S251.	1.6	8
24	The pebbles/boulders size distributions on Sais: Rosettaâ€™s final landing site on comet 67P/Churyumovâ€™Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S636-S645.	1.6	40
25	The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 607, L1.	2.1	107
26	Acceleration of individual, decimetre-sized aggregates in the lower coma of comet 67P/Churyumovâ€™Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S78-S88.	1.6	52
27	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. Astronomy and Astrophysics, 2016, 586, A7.	2.1	55
28	Sublimation of icy aggregates in the coma of comet 67P/Churyumovâ€™Gerasimenko detected with the OSIRIS cameras on board Rosetta. Monthly Notices of the Royal Astronomical Society, 2016, 462, S57-S66.	1.6	23
29	Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 587, A14.	2.1	102
30	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. Astronomy and Astrophysics, 2016, 593, A110.	2.1	86
31	Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. Astronomy and Astrophysics, 2016, 592, A69.	2.1	53
32	Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, L3.	2.1	34
33	The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations. Icarus, 2016, 277, 257-278.	1.1	252
34	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOVâ€™GERASIMENKO FROM 2.2 au TO PERIHELION. Astrophysical Journal, 2016, 821, 19.	1.6	158
35	Rosettaâ€™s comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. Science, 2016, 354, 1566-1570.	6.0	97
36	CHANGES IN THE PHYSICAL ENVIRONMENT OF THE INNER COMA OF 67P/CHURYUMOVâ€™GERASIMENKO WITH DECREASING HELIOCENTRIC DISTANCE. Astronomical Journal, 2016, 152, 130.	1.9	36

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37	The primordial nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 592, A63.	2.1	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.	1.6	3
39	Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46.	2.1	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.	2.1	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.	2.1	97
42	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17.	2.1	149
43	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34.	2.1	173
44	Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. <i>Astronomy and Astrophysics</i> , 2015, 583, A11.	2.1	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.	2.1	188
46	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A26.	2.1	153
47	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35.	2.1	59
48	Size-frequency distribution of boulders >7 m on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A37.	2.1	108
49	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36.	2.1	60
50	Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178.	1.5	71
51	Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A16.	2.1	23
52	Interpretation of thermal emission. I. The effect of roughness for spatially resolved atmosphereless bodies. <i>Icarus</i> , 2015, 252, 1-21.	1.1	62
53	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. <i>Science</i> , 2015, 347, aaa3905.	6.0	310
54	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa1044.	6.0	366

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55	The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440.	6.0	259
56	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. <i>Nature</i> , 2015, 523, 63-66.	13.7	158
57	Experimental study of an uncooled microbolometer array for thermal mapping and spectroscopy of asteroids. <i>Experimental Astronomy</i> , 2014, 38, 381-400.	1.6	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.	1.1	81
59	Shape, density, and geology of the nucleus of Comet 103P/Hartley 2. <i>Icarus</i> , 2013, 222, 550-558.	1.1	112
60	Thermal inertia and surface roughness of Comet 9P/Tempel 1. <i>Icarus</i> , 2013, 224, 154-171.	1.1	45
61	The nucleus of Comet 9P/Tempel 1: Shape and geology from two flybys. <i>Icarus</i> , 2013, 222, 453-466.	1.1	89
62	Thermal properties, sizes, and size distribution of Jupiter-family cometary nuclei. <i>Icarus</i> , 2013, 226, 1138-1170.	1.1	112
63	“TNOs are Cool” A survey of the trans-Neptunian region. <i>Astronomy and Astrophysics</i> , 2013, 557, A60.	2.1	109
64	EPOXI at Comet Hartley 2. <i>Science</i> , 2011, 332, 1396-1400.	6.0	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.	2.1	10
66	Asteroid (21) Lutetia as a remnant of Earth’s precursor planetesimals. <i>Icarus</i> , 2011, 216, 650-659.	1.1	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.	1.0	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.	2.1	34
69	Surface temperature of the nucleus of Comet 9P/Tempel 1. <i>Icarus</i> , 2007, 187, 16-25.	1.1	110
70	Exposed Water Ice Deposits on the Surface of Comet 9P/Tempel 1. <i>Science</i> , 2006, 311, 1453-1455.	6.0	238
71	Deep Impact: Excavating Comet Tempel 1. <i>Science</i> , 2005, 310, 258-264.	6.0	728