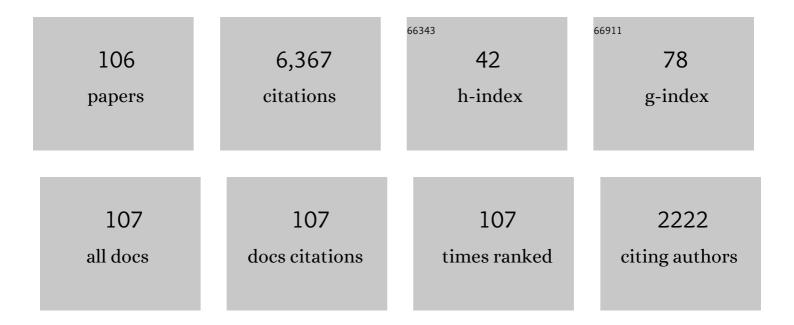
List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | AMBITION – comet nucleus cryogenic sample return. Experimental Astronomy, 2022, 54, 1077-1128.   | 3.7  | 4         |
| 2  | Observational constraints to the dynamics of dust particles in the coma of comet<br>67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4687-4705.                              | 4.4  | 5         |
| 3  | Long-term measurements of the erosion and accretion of dust deposits on comet<br>67P/Churyumov–Gerasimenko with the OSIRIS instrument. Monthly Notices of the Royal Astronomical<br>Society, 2021, 504, 2895-2910.   | 4.4  | 7         |
| 4  | The CoPhyLab comet-simulation chamber. Review of Scientific Instruments, 2021, 92, 115102.   | 1.3  | 6         |
| 5  | Spectrophotometric characterization of the Philae landing site and surroundings with the<br>Rosetta/OSIRIS cameras. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1221-1238.                         | 4.4  | 3         |
| 6  | Time evolution of dust deposits in the Hapi region of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2020, 636, A91.   | 5.1  | 13        |
| 7  | Experimental Phase Function and Degree of Linear Polarization Curves of Millimeter-sized Cosmic<br>Dust Analogs. Astrophysical Journal, Supplement Series, 2020, 247, 19.  | 7.7  | 19        |
| 8  | 67P/Churyumov–Gerasimenko's dust activity from pre- to post-perihelion as detected by Rosetta/GIADA.<br>Monthly Notices of the Royal Astronomical Society, 2020, 496, 125-137.                                       | 4.4  | 15        |
| 9  | How comets work: nucleus erosion versus dehydration. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4039-4044.  | 4.4  | 46        |
| 10 | Global-scale brittle plastic rheology at the cometesimals merging of comet<br>67P/Churyumov–Gerasimenko. Proceedings of the National Academy of Sciences of the United States<br>of America, 2020, 117, 10181-10187. | 7.1  | 5         |
| 11 | Compressive strength of comet 67P/Churyumov-Gerasimenko derived from Philae surface contacts.<br>Astronomy and Astrophysics, 2019, 630, A2.  | 5.1  | 16        |
| 12 | Multidisciplinary analysis of the Hapi region located on Comet 67P/Churyumov–Gerasimenko. Monthly<br>Notices of the Royal Astronomical Society, 2019, 485, 2139-2154.  | 4.4  | 9         |
| 13 | The search campaign to identify and image the Philae Lander on the surface of comet 67P/Churyumov-Gerasimenko. Acta Astronautica, 2019, 157, 199-214.  | 3.2  | 9         |
| 14 | Bilobate comet morphology and internal structure controlled by shear deformation. Nature Geoscience, 2019, 12, 157-162.  | 12.9 | 22        |
| 15 | Synthesis of the morphological description of cometary dust at comet 67P/Churyumov-Gerasimenko.<br>Astronomy and Astrophysics, 2019, 630, A24.   | 5.1  | 100       |
| 16 | Surface evolution of the Anhur region on comet 67P/Churyumov-Gerasimenko from high-resolution OSIRIS images. Astronomy and Astrophysics, 2019, 630, A13.   | 5.1  | 15        |
| 17 | Diurnal variation of dust and gas production in comet 67P/Churyumov-Gerasimenko at the inbound equinox as seen by OSIRIS and VIRTIS-M on board Rosetta. Astronomy and Astrophysics, 2019, 630, A23.                  | 5.1  | 9         |
| 18 | Seasonal variations in source regions of the dust jets on comet 67P/Churyumov-Gerasimenko.<br>Astronomy and Astrophysics, 2019, 630, A17.  | 5.1  | 9         |

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|----|---|------|-----------|
| 19 | Quantitative analysis of isolated boulder fields on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A15.  | 5.1  | 4         |
| 20 | The Rockyâ€Like Behavior of Cometary Landslides on 67P/Churyumovâ€Gerasimenko. Geophysical Research<br>Letters, 2019, 46, 14336-14346.  | 4.0  | 9         |
| 21 | The phase function and density of the dust observed at comet 67P/Churyumov–Gerasimenko. Monthly<br>Notices of the Royal Astronomical Society, 2018, 476, 2835-2839.                                       | 4.4  | 20        |
| 22 | On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov–Gerasimenko.<br>Icarus, 2018, 311, 1-22.  | 2.5  | 21        |
| 23 | Meter-scale thermal contraction crack polygons on the nucleus of comet<br>67P/Churyumov-Gerasimenko. Icarus, 2018, 301, 173-188.  | 2.5  | 33        |
| 24 | Models of Rosetta/OSIRIS 67P Dust Coma Phase Function. Astronomical Journal, 2018, 156, 237.  | 4.7  | 20        |
| 25 | Coma morphology of comet 67P controlled by insolation over irregular nucleus. Nature Astronomy, 2018, 2, 562-567.   | 10.1 | 19        |
| 26 | Regional unit definition for the nucleus of comet 67P/Churyumov-Gerasimenko on the SHAP7 model.<br>Planetary and Space Science, 2018, 164, 19-36.   | 1.7  | 32        |
| 27 | The big lobe of 67P/Churyumov–Gerasimenko comet: morphological and spectrophotometric evidences of layering as from OSIRIS data. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1555-1568. | 4.4  | 7         |
| 28 | The MASCOT Magnetometer. Space Science Reviews, 2017, 208, 433-449.   | 8.1  | 41        |
| 29 | Distance determination method of dust particles using Rosetta OSIRIS NAC and WAC data. Planetary and Space Science, 2017, 143, 256-264.   | 1.7  | 8         |
| 30 | Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere (Corrigendum). Astronomy and Astrophysics, 2017, 598, C2.                              | 5.1  | 8         |
| 31 | Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. Science, 2017, 355, 1392-1395.   | 12.6 | 63        |
| 32 | The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. Nature Astronomy, 2017, 1, .   | 10.1 | 100       |
| 33 | The opposition effect of 67P/Churyumov–Gerasimenko on post-perihelion Rosetta images. Monthly<br>Notices of the Royal Astronomical Society, 2017, 469, S550-S567.   | 4.4  | 22        |
| 34 | Long-term monitoring of comet 67P/Churyumov–Gerasimenko's jets with OSIRIS onboard Rosetta.<br>Monthly Notices of the Royal Astronomical Society, 2017, 469, S380-S385.                                   | 4.4  | 13        |
| 35 | Reconstruction of the flight and attitude of Rosetta's lander Philae. Acta Astronautica, 2017, 140, 509-516.  | 3.2  | 4         |
| 36 | Seasonal erosion and restoration of the dust cover on comet 67P/Churyumov-Gerasimenko as observed by OSIRIS onboard Rosetta. Astronomy and Astrophysics, 2017, 604, A114.                                 | 5.1  | 43        |

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|----|---|-----|-----------|
| 37 | Seasonal mass transfer on the nucleus of comet 67P/Chuyumov–Gerasimenko. Monthly Notices of the<br>Royal Astronomical Society, 2017, 469, S357-S371.  | 4.4 | 111       |
| 38 | Dust mass distribution around comet 67P/Churyumov–Gerasimenko determined via parallax<br>measurements using Rosetta's OSIRIS cameras. Monthly Notices of the Royal Astronomical Society,<br>2017, 469, S276-S284. | 4.4 | 43        |
| 39 | The highly active Anhur–Bes regions in the 67P/Churyumov–Gerasimenko comet: results from<br>OSIRIS/ROSETTA observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S93-S107.                  | 4.4 | 30        |
| 40 | Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle<br>and plural dust-to-ice ratio. Monthly Notices of the Royal Astronomical Society, 2017, 469, S295-S311.          | 4.4 | 39        |
| 41 | Characterization of dust aggregates in the vicinity of the Rosetta spacecraft. Monthly Notices of the Royal Astronomical Society, 2017, 469, S312-S320.   | 4.4 | 12        |
| 42 | Geomorphological and spectrophotometric analysis of Seth's circular niches on comet<br>67P/Churyumov–Gerasimenko using OSIRIS images. Monthly Notices of the Royal Astronomical Society,<br>2017, 469, S238-S251. | 4.4 | 8         |
| 43 | Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03. Monthly Notices of the Royal Astronomical Society, 2017, 469, s606-s625.   | 4.4 | 45        |
| 44 | The pebbles/boulders size distributions on Sais: Rosetta's final landing site on comet<br>67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S636-S645.                     | 4.4 | 40        |
| 45 | A three-dimensional modelling of the layered structure of comet 67P/Churyumov-Gerasimenko.<br>Monthly Notices of the Royal Astronomical Society, 2017, 469, S741-S754.  | 4.4 | 22        |
| 46 | The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 607, L1.   | 5.1 | 107       |
| 47 | Long-term survival of surface water ice on comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S582-S597.  | 4.4 | 24        |
| 48 | Acceleration of individual, decimetre-sized aggregates in the lower coma of comet<br>67P/Churyumov–Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S78-S88.                            | 4.4 | 52        |
| 49 | Geologic mapping of the Comet 67P/Churyumov–Gerasimenko's Northern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S352-S367.   | 4.4 | 27        |
| 50 | The southern hemisphere of 67P/Churyumov-Gerasimenko: Analysis of the preperihelion size-frequency distribution of boulders ≥7 m. Astronomy and Astrophysics, 2016, 592, L2.                                      | 5.1 | 27        |
| 51 | Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag.<br>Astronomy and Astrophysics, 2016, 586, A7.  | 5.1 | 55        |
| 52 | Characterization of the Abydos region through OSIRIS high-resolution images in support of CIVA measurements. Astronomy and Astrophysics, 2016, 585, L1.   | 5.1 | 26        |
| 53 | Gas outflow and dust transport of comet 67P/Churyumov–Gerasimenko. Monthly Notices of the Royal<br>Astronomical Society, 2016, 462, S533-S546.  | 4.4 | 34        |
| 54 | Summer fireworks on comet 67P. Monthly Notices of the Royal Astronomical Society, 2016, 462, S184-S194.   | 4.4 | 112       |

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|----|--|------|-----------|
| 55 | Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 587, A14.  | 5.1  | 102       |
| 56 | Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. Astronomy and Astrophysics, 2016, 593, A110.   | 5.1  | 86        |
| 57 | Detection of exposed H <sub>2</sub> O ice on the nucleus of comet 67P/Churyumov-Gerasimenko.<br>Astronomy and Astrophysics, 2016, 595, A102.   | 5.1  | 67        |
| 58 | Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. Astronomy and Astrophysics, 2016, 592, A69.   | 5.1  | 53        |
| 59 | The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion<br>Rosetta/OSIRIS observations. Icarus, 2016, 277, 257-278.   | 2.5  | 252       |
| 60 | EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOV–GERASIMENKO FROM 2.2 au TO PERIHELION. Astrophysical Journal, 2016, 821, 19.  | 4.5  | 158       |
| 61 | Attitude reconstruction of ROSETTA× <sup>3</sup> s Lander PHILAE using two-point magnetic field observations by ROMAP and RPC-MAG. Acta Astronautica, 2016, 125, 174-182.  | 3.2  | 17        |
| 62 | Spectrophotometry of the Khonsu region on the comet 67P/Churyumov–Gerasimenko using OSIRIS<br>instrument images. Monthly Notices of the Royal Astronomical Society, 2016, 462, S274-S286.  | 4.4  | 20        |
| 63 | Physical properties and dynamical relation of the circular depressions on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 591, A132.  | 5.1  | 22        |
| 64 | Decimetre-scaled spectrophotometric properties of the nucleus of comet<br>67P/Churyumov–Gerasimenko from OSIRIS observations. Monthly Notices of the Royal Astronomical<br>Society, 2016, 462, S287-S303.                          | 4.4  | 26        |
| 65 | Rosetta's comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. Science, 2016, 354, 1566-1570.  | 12.6 | 97        |
| 66 | CHANGES IN THE PHYSICAL ENVIRONMENT OF THE INNER COMA OF 67P/CHURYUMOV–GERASIMENKO WITH DECREASING HELIOCENTRIC DISTANCE. Astronomical Journal, 2016, 152, 130.  | 4.7  | 36        |
| 67 | The Agilkia boulders/pebbles size–frequency distributions: OSIRIS and ROLIS joint observations of 67P surface. Monthly Notices of the Royal Astronomical Society, 2016, 462, S242-S252.  | 4.4  | 15        |
| 68 | Geomorphological mapping of comet 67P/Churyumov–Gerasimenko's Southern hemisphere. Monthly<br>Notices of the Royal Astronomical Society, 2016, 462, S573-S592.   | 4.4  | 23        |
| 69 | Variegation of comet 67P/Churyumov-Gerasimenko in regions showing activity. Astronomy and Astrophysics, 2016, 586, A80.  | 5.1  | 43        |
| 70 | Scientific assessment of the quality of OSIRIS images. Astronomy and Astrophysics, 2015, 583, A46.   | 5.1  | 67        |
| 71 | Characterization of OSIRIS NAC filters for the interpretation of multispectral data of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A45.  | 5.1  | 8         |
| 72 | Shape model, reference system definition, and cartographic mapping standards for comet<br>67P/Churyumov-Gerasimenko – Stereo-photogrammetric analysis of Rosetta/OSIRIS image data.<br>Astronomy and Astrophysics, 2015, 583, A33. | 5.1  | 188       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 73 | OSIRIS observations of meter-sized exposures of H <sub>2</sub> 0 ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments. Astronomy and Astrophysics, 2015, 583, A25. | 5.1  | 97        |
| 74 | Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A17.  | 5.1  | 149       |
| 75 | Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A34.   | 5.1  | 173       |
| 76 | Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development.<br>Astronomy and Astrophysics, 2015, 583, A11.   | 5.1  | 33        |
| 77 | Spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from the OSIRIS instrument onboard the ROSETTA spacecraft. Astronomy and Astrophysics, 2015, 583, A30.                        | 5.1  | 188       |
| 78 | Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images.<br>Astronomy and Astrophysics, 2015, 583, A26.   | 5.1  | 153       |
| 79 | Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. Astronomy and Astrophysics, 2015, 583, A35.  | 5.1  | 59        |
| 80 | Size-frequency distribution of boulders ≥7 m on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A37.  | 5.1  | 108       |
| 81 | Geomorphology and spectrophotometry of Philae's landing site on comet<br>67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A41.   | 5.1  | 41        |
| 82 | Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko.<br>Astronomy and Astrophysics, 2015, 583, A36.   | 5.1  | 60        |
| 83 | Large-scale dust jets in the coma of 67P/Churyumov-Gerasimenko as seen by the OSIRIS instrument onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A9.   | 5.1  | 39        |
| 84 | The stratification of regolith on celestial objects. Icarus, 2015, 257, 33-46.  | 2.5  | 27        |
| 85 | Fractures on comet 67P/Churyumovâ€Gerasimenko observed by Rosetta/OSIRIS. Geophysical Research<br>Letters, 2015, 42, 5170-5178.   | 4.0  | 71        |
| 86 | Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A16.   | 5.1  | 23        |
| 87 | Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. Science, 2015, 347, aaa3905.   | 12.6 | 310       |
| 88 | On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa1044.  | 12.6 | 366       |
| 89 | The morphological diversity of comet 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0440.  | 12.6 | 259       |
| 90 | The landing(s) of Philae and inferences about comet surface mechanical properties. Science, 2015, 349, aaa9816.   | 12.6 | 212       |

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|-----|---|------|-----------|
| 91  | Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. Nature, 2015, 523, 63-66.   | 27.8 | 158       |
| 92  | The nonmagnetic nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2015, 349, aaa5102.  | 12.6 | 52        |
| 93  | Two independent and primitive envelopes of the bilobate nucleus of comet 67P. Nature, 2015, 526, 402-405.   | 27.8 | 141       |
| 94  | The rotation state of 67P/Churyumov-Gerasimenko from approach observations with the OSIRIS cameras on Rosetta. Astronomy and Astrophysics, 2014, 569, L2.   | 5.1  | 81        |
| 95  | Experiments on the consolidation of chondrites and the formation of dense rims around chondrules.<br>Icarus, 2013, 225, 558-569.  | 2.5  | 31        |
| 96  | Free collisions in a microgravity many-particle experiment. III. The collision behavior of sub-millimeter-sized dust aggregates. Icarus, 2013, 225, 75-85.  | 2.5  | 60        |
| 97  | Collision of a chondrule with matrix: Relation between static strength of matrix and impact pressure.<br>Icarus, 2013, 226, 111-118.  | 2.5  | 7         |
| 98  | Energy dissipation in head-on collisions of spheres. Journal Physics D: Applied Physics, 2013, 46, 435303.  | 2.8  | 74        |
| 99  | Free collisions in a microgravity many-particle experiment. I. Dust aggregate sticking at low velocities.<br>Icarus, 2012, 218, 688-700.  | 2.5  | 110       |
| 100 | Free collisions in a microgravity many-particle experiment – II: The collision dynamics of dust-coated chondrules. Icarus, 2012, 218, 701-706.  | 2.5  | 33        |
| 101 | LOW-VELOCITY COLLISIONS OF CENTIMETER-SIZED DUST AGGREGATES. Astrophysical Journal, 2011, 736, 34.  | 4.5  | 95        |
| 102 | Thermal metamorphoses of cosmic dust aggregates: Experiments by furnace, electrical gas discharge,<br>and radiative heating. Earth, Planets and Space, 2010, 62, 53-56.                           | 2.5  | 6         |
| 103 | THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. V. MULTIPLE IMPACTS OF DUSTY<br>AGGLOMERATES AT VELOCITIES ABOVE THE FRAGMENTATION THRESHOLD. Astrophysical Journal, 2010, 725,<br>1242-1251. | 4.5  | 47        |
| 104 | THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. III. COMPACTION IN MULTIPLE COLLISIONS.<br>Astrophysical Journal, 2009, 696, 2036-2043.   | 4.5  | 115       |
| 105 | THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. IV. TOWARD A DYNAMICAL COLLISION MODEL. Astrophysical Journal, 2009, 701, 130-141.  | 4.5  | 96        |
| 106 | Exposing metal and silicate charges to electrical discharges: Did chondrules form by nebular<br>lightning?. Icarus, 2008, 195, 504-510.   | 2.5  | 20        |