

LIST OF PUBLICATIONS

Refereed Publications

First author

- J. Agarwal, Y. Kim, D. Jewitt, H. Weaver, M. Mutchler, S. Larson (2020), *Component properties and mutual orbit of binary main-belt comet 288P/(300163) 2006 VW139*, A&A 643, A152.
- J. Agarwal and M. Mommert (2018), *The nucleus of active asteroid 358P/Pan-STARRS (P/2012 T1)*, A&A 616, A54.
- J. Agarwal, D. Jewitt, H. Weaver, M. Mutchler, S. Larson (2017), *A binary main-belt comet*, Nature 549, 357.
- J. Agarwal, V. Della Corte, P. D. Feldman and 67 co-authors (2017), *Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03*, MNRAS 469, S606.
- J. Agarwal, M. F. A'Hearn, J.-B. Vincent and 41 co-authors (2016), *Acceleration of individual, decimetre-sized aggregates in the lower coma of comet 67P/Churyumov-Gerasimenko*, MNRAS 462, S78.
- J. Agarwal, D. Jewitt, H. Weaver, M. Mutchler, S. Larson (2016), *Hubble and Keck Telescope Observations of Active Asteroid 288P/300163 (2006 VW139)*, AJ, 151, 12.
- J. Agarwal, D. Jewitt, and H. Weaver (2013), *Dynamics of Large Fragments in the Tail of Active Asteroid P/2010 A2*, ApJ 769, 46.
- J. Agarwal, M. Müller, W. T. Reach, M. V. Sykes, H. Boehnhardt, and E. Grün (2010), *The Dust Trail of Comet 67P/Churyumov-Gerasimenko between 2004 and 2006*, Icarus 207, 992-1012.
- J. Agarwal, M. Müller, and E. Grün (2007), *Dust Environment Modelling of Comet 67P/Churyumov-Gerasimenko*, Space Science Reviews 128, 79-131.
- J. Agarwal, H. Bönhardt, and E. Grün (2007), *Imaging the dust trail and neckline of 67P/Churyumov-Gerasimenko*. In H. Krüger and A. Graps (eds.) "ESA SP-643: Dust in Planetary Systems", 51-54.
- J. Agarwal, M. Müller, H. Bönhardt, and E. Grün (2006), *Modelling the large particle environment of comet 67P/Churyumov-Gerasimenko*, Adv. Sp. Res. 38 (9), 2049-2053.
- J. Agarwal and D. Hennig (2003), *Breather solutions of a nonlinear DNA model including a longitudinal degree of freedom*, Physica A 323, 519-533.

Second to fourth author

- J. Luu, D. Jewitt, M. Mutchler, J. Agarwal, Y. Kim, J. Li, H. Weaver (2021), *Rotational Mass Shedding from Asteroid (6478) Gault*, ApJL 910, id.L27.
- D. Jewitt, Y. Kim, M. Mutchler, J. Agarwal, J. Li, H. Weaver (2021), *Cometary Activity Begins at Kuiper Belt Distances: Evidence from C/2017 K2*, AJ 161, id.188.

- J. Markkanen and J. Agarwal (2020), *Thermophysical model for icy cometary dust particles*, A&A, *in press*, arXiv:2009.13208.
- Y. Kim, D. Jewitt, M. Mutchler, J. Agarwal, M.-T. Hui, H. Weaver (2020), *Coma Anisotropy and the Rotation Pole of Interstellar Comet 2I/Borisov*, ApJL 895, L34.
- J. Li, D. Jewitt, M. Mutchler, J. Agarwal, H. Weaver (2020), *Hubble Space Telescope Search for Activity in High-perihelion Objects*, AJ 159, id.209.
- J. Markkanen and J. Agarwal (2019), *Scattering, absorption, and thermal emission by large cometary dust particles: Synoptic numerical solution*, A&A, 631, A164.
- D. Jewitt, J. Agarwal, M.-T. Hui, J. Li, M. Mutchler, H. Weaver (2019), *Distant Comet C/2017 K2 and the Cohesion Bottleneck*, AJ, 157, 65.
- J. Markkanen, J. Agarwal, T. Väisänen, A. Penttilä, K. Muinonen (2018), *Interpretation of the Phase Functions Measured by the OSIRIS Instrument for Comet 67P/Churyumov-Gerasimenko*, ApJ, 868, L16.
- D. Jewitt, M. Mutchler, J. Agarwal, J. Li (2018), *Hubble Space Telescope Observations of 3200 Phaethon at Closest Approach*, AJ 156, 238.
- G. H. Jones, J. Agarwal and 11 co-authors (2018), *The proposed Caroline ESA M3 mission to a Main Belt Comet*, Advances in Space Research, 62, 1921.
- J. R. Szalay, A. R. Poppe, J. Agarwal and 6 co-authors (2018), *Dust Phenomena Relating to Airless Bodies*, Space Science Reviews, 214, #98.
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- C. Snodgrass, J. Agarwal and 16 co-authors (2017), *The Main Belt Comets and ice in the Solar System*, Astronomy and Astrophysics Review 25, 5.
- H.-U. Keller, S. Mottola, S. F. Hviid, J. Agarwal and 46 co-authors (2017), *Seasonal mass transfer on the nucleus of comet 67P/Churyumov-Gerasimenko*, MNRAS 469, S357.
- D. Jewitt, J. Agarwal, J. Li, H. Weaver, M. Mutchler, S. Larson (2017), *Anatomy of an Asteroid Breakup: The Case of P/2013 R3*, AJ 153, 223.
- E. Grün, J. Agarwal and 94 co-authors (2016), *The 19 Feb. 2016 Outburst of Comet 67P/CG: An ESA Rosetta Multi-Instrument Study*, MNRAS, 462, S220.
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- R. H. Soja, M. Sommer, J. Herzog, J. Agarwal and 7 co-authors (2015), *Characteristics of the dust trail of 67P/Churyumov-Gerasimenko: an application of the IMEX model*, A&A 583, A18.

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- D. Jewitt, J. Agarwal, N. Peixinho, H. Weaver, M. Mutchler, M.-T. Hui, J. Li, S. Larson (2015), *A New Active Asteroid 313P/Gibbs*, AJ 149, 81.
- D. Jewitt, J. Agarwal, H. Weaver, M. Mutchler, and S. Larson (2015), *Episodic Ejection from Active Asteroid 311P/PANSTARRS*, ApJ 798, 109.
- D. Jewitt, M. Ishiguro, H. Weaver, J. Agarwal, M. Mutchler, and S. Larson (2014), *Hubble Space Telescope Investigation of Main-belt Comet 133P/Elst-Pizarro*, AJ 174, 117.
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- C. Tubiana, H. Bönhardt, J. Agarwal, M. Drahus, L. Barrera, and J. L. Ortiz (2011), *67P/Churyumov-Gerasimenko at large heliocentric distance*, A&A 527, A113.
- M. Fulle, L. Colangeli, J. Agarwal, and 13 co-authors (2010), *Comet 67P/Churyumov-Gerasimenko: the GIADA dust environment model of the Rosetta Mission target*, A&A 522, A63.
- D. Jewitt, H. Weaver, J. Agarwal, M. Mutchler, and M. Drahus (2010), *A recent disruption of the main-belt asteroid P/2010 A2*, Nature 467, 817-819.
- D. Hennig, J.F.R. Archilla, and J. Agarwal (2003), *Nonlinear charge transport mechanism in periodic and disordered DNA*, Physica D 180(3-4), 256-272.

Fifth+ author

- Q. Ye and 10 co-authors (2021), *Disintegration of Long-Period Comet C/2019 Y4 (ATLAS): I. Hubble Space Telescope Observations*, AJ, in press.
- V. Reshetnyk and 6 co-authors (2021), *Transport Characteristics of the Near-Surface Layer of the Nucleus of Comet 67P/Churyumov-Gerasimenko*, Solar System Research 55, 106.
- Y. Skorov and 5 co-authors (2021), *The effect of varying porosity and inhomogeneities of the surface dust layer on the modelling of comet gas production*, MNRAS 501, 2635.
- R. Marschall and 11 co-authors (2020), *Cometary Comae-Surface Links*, SSR 216, id. 130.
- M. Mommert and 14 co-authors (2020), *Recurrent Cometary Activity in Near-Earth Object (3552) Don Quixote*, PSJ 1, id.12.
- D. Jewitt, Y. Kim, M. Mutchler, H. Weaver, J. Agarwal, M.-T. Hui (2020), *Outburst and Splitting of Interstellar Comet 2I/Borisov*, ApJL 896, L39.
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- C. Güttler and 30 co-authors (2019), *Synthesis of the morphological description of cometary dust at comet 67P/Churyumov-Gerasimenko*, A&A 630, A24.
- I.-L. Lai and 45 co-authors (2019), *Seasonal variations in source regions of the dust jets on comet 67P/Churyumov-Gerasimenko*, A&A 630, A17.
- S. Fornasier and 39 co-authors (2019), *Linking surface morphology, composition, and activity on the nucleus of 67P/Churyumov-Gerasimenko*, A&A 630, A7.
- H. Krüger and 12 co-authors (2019), *Modelling DESTINY⁺ interplanetary and interstellar dust measurements en route to the active asteroid (3200) Phaethon*, Planetary and Space Science 172, 22-42.
- M. Pajola and 46 co-authors (2018), *Multidisciplinary analysis of the Hapi region located on Comet 67P/Churyumov-Gerasimenko*, MNRAS 485, 2139.
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- A.-T. Auger and 50 co-authors (2018), *Meter-scale thermal contraction crack polygons on the nucleus of comet 67P/Churyumov-Gerasimenko*, Icarus 301, 173.
- F. Preusker and 44 co-authors (2017), *The global meter-level shape model of comet 67P/Churyumov-Gerasimenko*, A&A 607, L1.
- D. Jewitt, M. T. Hui, M. Mutchler, H. Weaver, J. Li, J. Agarwal (2017), *A Comet Active Beyond the Crystallization Zone*, ApJ 847, L19.
- E. Drolshagen and 42 co-authors (2017), *Distance determination method of dust particles using Rosetta OSIRIS NAC and WAC data*, Planetary and Space Science 143, 256.
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- T. Ott and 52 co-authors (2017), *Dust mass distribution around comet 67P/Churyumov-Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras*, MNRAS 469, S276.
- A. Lucchetti and 53 co-authors (2017), *Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumov-Gerasimenko using OSIRIS images*, MNRAS 469, S238.
- E. Frattin and 53 co-authors (2017), *Post-perihelion photometry of dust grains in the coma of 67P Churyumov-Gerasimenko*, MNRAS 469, S195.
- A. Gicquel and 62 co-authors (2017), *Modelling of the outburst on 2015 July 29 observed with OSIRIS cameras in the Southern hemisphere of comet 67P/Churyumov-Gerasimenko*, MNRAS 469, S178.
- S. Fornasier and 53 co-authors (2017), *The highly active Anhur-Bes regions in the 67P/Churyumov-Gerasimenko comet: results from OSIRIS/ROSETTA observations*, MNRAS 469, S93.
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- L. Giacomini and 54 co-authors (2016), *Geologic mapping of the Comet 67P/Churyumov-Gerasimenko's Northern hemisphere*, MNRAS 462, S352.
- C. Feller and 57 co-authors (2016), *Decimetre-scaled spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations*, MNRAS 462, S287.
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- M. Pajola and 59 co-authors (2016), *The Agilkia boulders/pebbles size-frequency distributions: OSIRIS and ROLIS joint observations of 67P surface*, MNRAS 462, S242.
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- D. Jewitt, M. Mutchler, H. Weaver, M. T. Hui, J. Agarwal and 7 co-authors (2016) *Fragmentation Kinematics in Comet 332P/Ikeya-Murakami*, ApJ 829, 8.
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- Z.-Y. Lin and 50 co-authors (2016), *Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko*, A&A 588, L3.
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- C. Tubiana and 53 co-authors (2015), *Scientific assessment of the quality of OSIRIS images*, A&A 583, A46.
- N. Oklay and 41 co-authors (2015), *Characterization of OSIRIS NAC filters for the interpretation of multispectral data of comet 67P/Churyumov-Gerasimenko*, A&A 583, A45.
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- H.-U. Keller and 46 co-authors (2015), *Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko*, A&A 583, A34.
- F. Preusker and 44 co-authors (2015), *Shape model, reference system definition, and cartographic mapping standards for comet 67P/Churyumov-Gerasimenko - Stereo-photogrammetric*

analysis of Rosetta/OSIRIS image data, A&A 583, A33.

O. Groussin and 51 co-authors (2015), *Gravitational slopes, geomorphology, and material strengths of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations*, A&A 583, A32.

S. Fornasier and 53 co-authors (2015), *Spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from the OSIRIS instrument onboard the ROSETTA spacecraft*, A&A 583, A30.

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A. Pommerol and 54 co-authors (2015), *OSIRIS observations of meter-sized exposures of H₂O ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments*, A&A 583, A25.

I. Bertini and 46 co-authors (2015), *Search for satellites near comet 67P/Churyumov-Gerasimenko using Rosetta/OSIRIS images*, A&A 583, A19.

N. Thomas and 54 co-authors (2015), *Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko*, A&A 583, A17.

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M. Fulle and 45 co-authors (2015), *Rotating dust particles in the coma of comet 67P/Churyumov-Gerasimenko*, A&A 583, A14.

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A. Rotundi and 80 co-authors (2015), *Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun*, Science 347, aaa3905.

H. Sierks and 65 co-authors (2015), *On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko*, Science 347, aaa1044.

N. Thomas and 58 co-authors (2015), *The morphological diversity of comet 67P/Churyumov-Gerasimenko*, Science 347, aaa0440.

C. Tubiana and 49 co-authors (2015), *67P/Churyumov-Gerasimenko: Activity between March and June 2014 as observed from Rosetta/OSIRIS*, A&A 573, A62.

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Theses

Observation and Modelling of the Dust Trail of Comet 67P/Churyumov-Gerasimenko, Ph.D. Thesis, Heidelberg University, 2007.

Localised Excitations and Polaronic Charge Transport in a Nonlinear Model of DNA, Diploma Thesis, FU Berlin, 2002.

Book Contributions

D. Jewitt, H. Hsieh and J. Agarwal (2016), *The Active Asteroids*, In “Asteroids IV” eds. P. Michel et al., University of Arizona press, p.221-241.

J. Agarwal, M. Müller and E. Grün (2007), *Dust Environment Modelling of Comet 67P/Churyumov-Gerasimenko*. In R. Schulz, C. Alexander, H. Boehnhardt, and K. H. Glaßmeier (eds.) “Rosetta. ESA’s Mission to the Origin of the Solar System”, 99-131.

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Popular Science Articles

J. Agarwal, *Close-up view of an active asteroid* (2019), Science 366, 1192.

J. Agarwal, *Rätselhafte Staubfontäne auf Komet 67P/Tschurjumow-Gerasimenko*, Sterne und Weltraum, Mai 2018.

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J. Agarwal, *Ein aktiver Doppelasteroid*, Sterne und Weltraum, Januar 2018.

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