

Michael Kueppers

List of Publications by Year in descending order

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49
papers

4,005
citations

147801

31
h-index

197818

49
g-index

59
all docs

59
docs citations

59
times ranked

2000
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa1044. | 12.6 | 366 |
| 2 | Localized sources of water vapour on the dwarf planet (1)â€‰Ceres. <i>Nature</i> , 2014, 505, 525-527. | 27.8 | 301 |
| 3 | OSIRIS â€œ The Scientific Camera System Onboard Rosetta. <i>Space Science Reviews</i> , 2007, 128, 433-506. | 8.1 | 286 |
| 4 | The morphological diversity of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2015, 347, aaa0440. | 12.6 | 259 |
| 5 | 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 |
| 6 | 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 |
| 7 | Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A34. | 5.1 | 173 |
| 8 | The primordial nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 592, A63. | 5.1 | 159 |
| 9 | Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A26. | 5.1 | 153 |
| 10 | Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A17. | 5.1 | 149 |
| 11 | Gravitational slopes, geomorphology, and material strengths of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A32. | 5.1 | 113 |
| 12 | Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€‰Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371. | 4.4 | 111 |
| 13 | The Double Asteroid Redirection Test (DART): Planetary Defense Investigations and Requirements. <i>Planetary Science Journal</i> , 2021, 2, 173. | 3.6 | 110 |
| 14 | Size-frequency distribution of boulders â‰¥7 m on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A37. | 5.1 | 108 |
| 15 | 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 |
| 16 | The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. <i>Nature Astronomy</i> , 2017, 1, . | 10.1 | 100 |
| 17 | Rosettaâ€™s comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. <i>Science</i> , 2016, 354, 1566-1570. | 12.6 | 97 |
| 18 | The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 160. | 3.6 | 82 |

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|----|---|------|-----------|
| 19 | Fractures on comet 67P/Churyumov-Gerasimenko observed by Rosetta/OSIRIS. <i>Geophysical Research Letters</i> , 2015, 42, 5170-5178. | 4.0 | 71 |
| 20 | Scientific assessment of the quality of OSIRIS images. <i>Astronomy and Astrophysics</i> , 2015, 583, A46. | 5.1 | 67 |
| 21 | Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. <i>Science</i> , 2017, 355, 1392-1395. | 12.6 | 63 |
| 22 | Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2015, 583, A36. | 5.1 | 60 |
| 23 | Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. <i>Astronomy and Astrophysics</i> , 2015, 583, A35. | 5.1 | 59 |
| 24 | Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. <i>Astronomy and Astrophysics</i> , 2016, 586, A7. | 5.1 | 55 |
| 25 | Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. <i>Astronomy and Astrophysics</i> , 2016, 592, A69. | 5.1 | 53 |
| 26 | Physical properties of OSIRIS-REx target asteroid (101955) 1999ÂRQ₃₆. <i>Astronomy and Astrophysics</i> , 2012, 548, A36. | 5.1 | 41 |
| 27 | The Dependence of the Cerean Exosphere on Solar Energetic Particle Events. <i>Astrophysical Journal Letters</i> , 2017, 838, L8. | 8.3 | 41 |
| 28 | Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs. <i>Astronomy and Astrophysics</i> , 2018, 611, A33. | 5.1 | 40 |
| 29 | The Philae lander reveals low-strength primitive ice inside cometary boulders. <i>Nature</i> , 2020, 586, 697-701. | 27.8 | 40 |
| 30 | Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S295-S311. | 4.4 | 39 |
| 31 | Thermal and shape properties of asteroid (21) Lutetia from Herschel observations around the Rosetta flyby. <i>Planetary and Space Science</i> , 2012, 66, 192-199. | 1.7 | 33 |
| 32 | HIFI observations of water in the atmosphere of comet C/2008 Q3 (Garradd). <i>Astronomy and Astrophysics</i> , 2010, 518, L150. | 5.1 | 31 |
| 33 | Ammonia and other parent molecules in comet 10P/Tempel 2 from <i>Herschel</i> /HIFI and ground-based radio observations. <i>Astronomy and Astrophysics</i> , 2012, 539, A68. | 5.1 | 31 |
| 34 | Characterization of the Abydos region through OSIRIS high-resolution images in support of CIVA measurements. <i>Astronomy and Astrophysics</i> , 2016, 585, L1. | 5.1 | 26 |
| 35 | Long-term survival of surface water ice on comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S582-S597. | 4.4 | 24 |
| 36 | Comparative study of water ice exposures on cometary nuclei using multispectral imaging data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S394-S414. | 4.4 | 18 |

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|----|---|------|-----------|
| 37 | Linking surface morphology, composition, and activity on the nucleus of 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A7. | 5.1 | 18 |
| 38 | Exposed bright features on the comet 67P/Churyumov-Gerasimenko: distribution and evolution. <i>Astronomy and Astrophysics</i> , 2018, 613, A36. | 5.1 | 15 |
| 39 | Triple Asteroid-to-Comet nucleus sample return mission. <i>Experimental Astronomy</i> , 2009, 23, 809-847. | 3.7 | 14 |
| 40 | Time evolution of dust deposits in the Hapi region of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2020, 636, A91. | 5.1 | 13 |
| 41 | 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 |
| 42 | The Mystery of Ceres' Activity. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 205-208. | 3.6 | 6 |
| 43 | Low Water Outgassing from (24) Themis and (65) Cybele: 3.1 μ m Near-IR Spectral Implications. <i>Astrophysical Journal Letters</i> , 2020, 898, L45. | 8.3 | 6 |
| 44 | The Rosetta science operations and planning implementation. <i>Acta Astronautica</i> , 2018, 152, 163-174. | 3.2 | 5 |
| 45 | Evidence of thrust faulting and widespread contraction of Ceres. <i>Nature Astronomy</i> , 2019, 3, 916-921. | 10.1 | 5 |
| 46 | Mapping a duck: geological features and region definitions on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2021, 652, A52. | 5.1 | 3 |
| 47 | Activity-Based Scheduling of Science Campaigns for the Rosetta Orbiter. <i>Journal of Aerospace Information Systems</i> , 2021, 18, 711-727. | 1.4 | 3 |
| 48 | Dwarf planet Ceres and the ingredients of life. <i>Science</i> , 2017, 355, 692-693. | 12.6 | 2 |
| 49 | Building mountains on Ceres. <i>Nature Geoscience</i> , 2019, 12, 786-787. | 12.9 | 1 |