# Emmanuel Marcq

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3317213/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 65 papers | 3,023 citations | 126907 33 h-index | 161849 54 g-index |
| 78 all docs | 78 docs citations | 78 times ranked | 2193 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Observability of temperate exoplanets with Ariel. Experimental Astronomy, 2022, 53, 375-390. | 3.7 | 1 |
| 2 | Water content trends in K2-138 and other low-mass multi-planetary systems. Astronomy and Astrophysics, 2022, 660, A102. | 5.1 | 7 |
| 3 | On the Stability of Low-mass Planets with Supercritical Hydrospheres. Astrophysical Journal, 2022, 931, 143. | 4.5 | 0 |
| 4 | The impact of turbulent vertical mixing in the Venus clouds on chemical tracers. Icarus, 2022, 386, 115148. | 2.5 | 5 |
| 5 | The Spatial and Temporal Distribution of Nighttime Ozone and Sulfur Dioxide in the Venus Mesosphere as Deduced From SPICAV UV Stellar Occultations. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006625. | 3.6 | 6 |
| 6 | Characterisation of the hydrospheres of TRAPPIST-1 planets. Astronomy and Astrophysics, 2021, 647, A53. | 5.1 | 30 |
| 7 | Evidence for SO<sub>2</sub> latitudinal variations below the clouds of Venus. Astronomy and Astrophysics, 2021, 648, L8. | 5.1 | 6 |
| 8 | Massâ€“Radius Relationships for Irradiated Ocean Planets. Astrophysical Journal, 2021, 914, 84. | 4.5 | 40 |
| 9 | Instrumental requirements for the study of Venusâ€™ cloud top using the UV imaging spectrometer VeSUV. Advances in Space Research, 2021, 68, 275-291. | 2.6 | 5 |
| 10 | Sulfur monoxide dimer chemistry as a possible source of polysulfur in the upper atmosphere of Venus. Nature Communications, 2021, 12, 175. | 12.8 | 11 |
| 11 | ARES IV: Probing the Atmospheres of the Two Warm Small Planets HD 106315c and HD 3167c with the HST/WFC3 Camera*. Astronomical Journal, 2021, 161, 19. | 4.7 | 25 |
| 12 | Dayâ€“night cloud asymmetry prevents early oceans on Venus but not on Earth. Nature, 2021, 598, 276-280. | 27.8 | 68 |
| 13 | On Venus' cloud top chemistry, convective activity and topography: A perspective from HST. Icarus, 2020, 335, 113372. | 2.5 | 11 |
| 14 | Climatology of SO2 and UV absorber at Venus' cloud top from SPICAV-UV nadir dataset. Icarus, 2020, 335, 113368. | 2.5 | 50 |
| 15 | Constraining the early evolution of Venus and Earth through atmospheric Ar, Ne isotope and bulk K/U ratios. Icarus, 2020, 339, 113551. | 2.5 | 47 |
| 16 | Irradiated Ocean Planets Bridge Super-Earth and Sub-Neptune Populations. Astrophysical Journal Letters, 2020, 896, L22. | 8.3 | 79 |
| 17 | Escape of rock-forming volatile elements and noble gases from planetary embryos. Icarus, 2020, 347, 113772. | 2.5 | 21 |
| 18 | HDO and SO<sub>2</sub>thermal mapping on Venus. Astronomy and Astrophysics, 2020, 639, A69. | 5.1 | 19 |

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|---|---|---|---|
| 19 | Planetary system LHS 1140 revisited with ESPRESSO and TESS. Astronomy and Astrophysics, 2020, 642, A121. | 5.1 | 50 |
| 20 | A stringent upper limit of the PH<sub>3</sub>abundance at the cloud top of Venus. Astronomy and Astrophysics, 2020, 643, L5. | 5.1 | 49 |
| 21 | Long-term Variations of Venusâ€™s 365 nm Albedo Observed by Venus Express, Akatsuki, MESSENGER, and the Hubble Space Telescope. Astronomical Journal, 2019, 158, 126. | 4.7 | 30 |
| 22 | HDO and SO<sub>2</sub> thermal mapping on Venus. Astronomy and Astrophysics, 2019, 623, A70. | 5.1 | 26 |
| 23 | No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520. | 27.8 | 111 |
| 24 | Modeling the albedo of Earth-like magma ocean planets with H2O-CO2 atmospheres. Icarus, 2019, 317, 583-590. | 2.5 | 30 |
| 25 | Discovery of cloud top ozone on Venus. Icarus, 2019, 319, 491-498. | 2.5 | 19 |
| 26 | The VenSpec suite on the ESA EnVision mission to Venus. , 2019, , . | | 16 |
| 27 | The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1. | 8.1 | 119 |
| 28 | Composition and Chemistry of the Neutral Atmosphere of Venus. Space Science Reviews, 2018, 214, 1. | 8.1 | 82 |
| 29 | The Venus Emissivity Mapper (VEM): obtaining global mineralogy of Venus from orbit. , 2018, , . | | 7 |
| 30 | Night side distribution of SO2 content in Venusâ€™ upper mesosphere. Icarus, 2017, 294, 58-71. | 2.5 | 32 |
| 31 | Sulfur dioxide in the Venus atmosphere: I. Vertical distribution and variability. Icarus, 2017, 295, 16-33. | 2.5 | 47 |
| 32 | Sulfur dioxide in the Venus Atmosphere: II. Spatial and temporal variability. Icarus, 2017, 295, 1-15. | 2.5 | 53 |
| 33 | The relative influence of H<sub>2</sub>O and CO<sub>2</sub> on the primitive surface conditions and evolution of rocky planets. Journal of Geophysical Research E: Planets, 2017, 122, 1458-1486. | 3.6 | 76 |
| 34 | SPICAM on Mars Express: A 10 year in-depth survey of the Martian atmosphere. Icarus, 2017, 297, 195-216. | 2.5 | 64 |
| 35 | Venus: Tickling the clouds. Nature Astronomy, 2017, 1, . | 10.1 | 0 |
| 36 | Thermal radiation of magma ocean planets using a 1â€Ð radiativeâ€convective model of H<sub>2</sub>Oâ€CO<sub>2</sub> atmospheres. Journal of Geophysical Research E: Planets, 2017, 122, 1539-1553. | 3.6 | 47 |

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|---|---|---|---|
| 37 | The Venus Emissivity Mapper concept. , 2017, , . | | 3 |
| 38 | Variations of water vapor and cloud top altitude in the Venusâ€™ mesosphere from SPICAV/VEx observations. Icarus, 2016, 275, 143-162. | 2.5 | 67 |
| 39 | Formation and Evolution of Protoatmospheres. Space Science Reviews, 2016, 205, 153-211. | 8.1 | 68 |
| 40 | Influence of Venus topography on the zonal wind and UV albedo at cloud top level: The role of stationary gravity waves. Journal of Geophysical Research E: Planets, 2016, 121, 1087-1101. | 3.6 | 60 |
| 41 | The Venus Emissivity Mapper (VEM) concept. , 2016, , . | | 5 |
| 42 | Variability of the nitric oxide nightglow at Venus during solar minimum. Journal of Geophysical Research E: Planets, 2016, 121, 846-853. | 3.6 | 3 |
| 43 | Formation and Evolution of Protoatmospheres. Space Sciences Series of ISSI, 2016, , 193-251. | 0.0 | 0 |
| 44 | Thermal structure of Venus nightside upper atmosphere measured by stellar occultations with SPICAV/Venus Express. Planetary and Space Science, 2015, 113-114, 321-335. | 1.7 | 37 |
| 45 | Long-term variations of the UV contrast on Venus observed by the Venus Monitoring Camera on board Venus Express. Icarus, 2015, 253, 1-15. | 2.5 | 36 |
| 46 | WATER FORMATION IN THE UPPER ATMOSPHERE OF THE EARLY EARTH. Astrophysical Journal Letters, 2015, 807, L29. | 8.3 | 4 |
| 47 | Coordinated Hubble Space Telescope and Venus Express Observations of Venusâ€™ upper cloud deck. Icarus, 2015, 258, 309-336. | 2.5 | 35 |
| 48 | Search for horizontal and vertical variations of CO in the day and night side lower mesosphere of Venus from CSHELL/IRTF <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"><mml:mn>4.53</mml:mn><mml:mspace width="0.25em" /><mml:mi mathvariant="normal">Î¼</mml:mi><mml:mi mathvariant="normal">m</mml:mi></mml:math> observations. Planetary and Space Science, 2015, 113-114, 256-263. | 1.7 | 30 |
| 49 | Preliminary study of Venus cloud layers with polarimetric data from SPICAV/VEx. Planetary and Space Science, 2015, 113-114, 159-168. | 1.7 | 30 |
| 50 | Escape of the martian protoatmosphere and initial water inventory. Planetary and Space Science, 2014, 98, 106-119. | 1.7 | 83 |
| 51 | Thermal evolution of an early magma ocean in interaction with the atmosphere: conditions for the condensation of a water ocean. BIO Web of Conferences, 2014, 2, 01006. | 0.2 | 1 |
| 52 | 3D modelling of the early martian climate under a denser CO2 atmosphere: Temperatures and CO2 ice clouds. Icarus, 2013, 222, 81-99. | 2.5 | 259 |
| 53 | Variations of sulphur dioxide at the cloud top of Venusâ€™s dynamic atmosphere. Nature Geoscience, 2013, 6, 25-28. | 12.9 | 164 |
| 54 | Thermal evolution of an early magma ocean in interaction with the atmosphere. Journal of Geophysical Research E: Planets, 2013, 118, 1155-1176. | 3.6 | 173 |

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| 55 | Simulations of the latitudinal variability of COâ€like and OCSâ€like passive tracers below the clouds of Venus using the Laboratoire de MÃ©tÃ©orologie Dynamique GCM. Journal of Geophysical Research E: Planets, 2013, 118, 1983-1990. | 3.6 | 7 |
| 56 | A simple 1â€Ð radiativeâ€convective atmospheric model designed for integration into coupled models of magma ocean planets. Journal of Geophysical Research, 2012, 117, . | 3.3 | 60 |
| 57 | Vertical profiling of SO2 and SO above Venusâ€™ clouds by SPICAV/SOIR solar occultations. Icarus, 2012, 217, 740-751. | 2.5 | 103 |
| 58 | A layer of ozone detected in the nightside upper atmosphere of Venus. Icarus, 2011, 216, 82-85. | 2.5 | 81 |
| 59 | An investigation of the SO2 content of the venusian mesosphere using SPICAV-UV in nadir mode. Icarus, 2011, 211, 58-69. | 2.5 | 86 |
| 60 | Water vapor abundance near the surface of Venus from Venus Express/VIRTIS observations. Journal of Geophysical Research, 2009, 114, . | 3.3 | 55 |
| 61 | Evidence for carbonyl sulfide (OCS) conversion to CO in the lower atmosphere of Venus. Journal of Geophysical Research, 2009, 114, . | 3.3 | 56 |
| 62 | A latitudinal survey of CO, OCS, H<sub>2</sub>O, and SO<sub>2</sub> in the lower atmosphere of Venus: Spectroscopic studies using VIRTISâ€H. Journal of Geophysical Research, 2008, 113, . | 3.3 | 79 |
| 63 | Remote sensing of Venusâ€™ lower atmosphere from ground-based IR spectroscopy: Latitudinal and vertical distribution of minor species. Planetary and Space Science, 2006, 54, 1360-1370. | 1.7 | 90 |
| 64 | Latitudinal variations of CO and OCS in the lower atmosphere of Venus from near-infrared nightside spectro-imaging. Icarus, 2005, 179, 375-386. | 2.5 | 40 |
| 65 | The gyromagnetic ratio of rapidly rotating compact stars in general relativity. Classical and Quantum Gravity, 2003, 20, 3051-3060. | 4.0 | 9 |