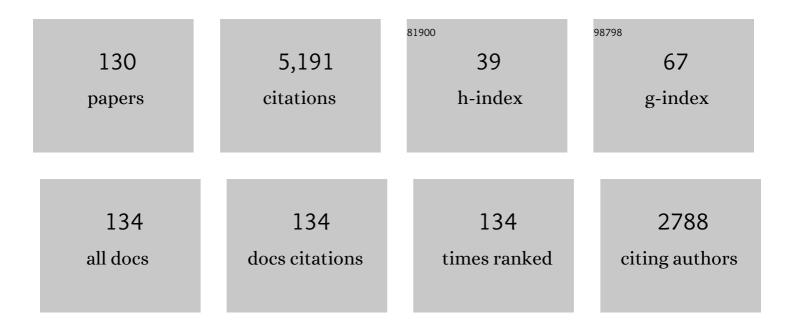
Julie Castillo-Rogez

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 1 | Ceres, a wet planet: The view after Dawn. Chemie Der Erde, 2022, 82, 125745. | 2.0 | 1 |
| 2 | Hypotheses for Triton's plumes: New analyses and future remote sensing tests. Icarus, 2022, 375, 114835. | 2.5 | 6 |
| 3 | Single―and Multiâ€Pass Magnetometric Subsurface Ocean Detection and Characterization in Icy Worlds Using Principal Component Analysis (PCA): Application to Triton. Earth and Space Science, 2022, 9, . | 2.6 | 9 |
| 4 | Porosity-filling Metamorphic Brines Explain Ceres's Low Mantle Density. Planetary Science Journal, 2022, 3, 21. | 3.6 | 8 |
| 5 | Concepts for the Future Exploration of Dwarf Planet Ceres' Habitability. Planetary Science Journal, 2022, 3, 41. | 3.6 | 9 |
| 6 | Science Drivers for the Future Exploration of Ceres: From Solar System Evolution to Ocean World Science. Planetary Science Journal, 2022, 3, 64. | 3.6 | 4 |
| 7 | Ceres' Internal Evolution. , 2022, , 159-172. | | 0 |
| 8 | A young age of formation of Rheasilvia basin on Vesta from floor deformation patterns and crater counts. Meteoritics and Planetary Science, 2022, 57, 22-47. | 1.6 | 6 |
| 9 | The Radiation Environment of Ceres and Implications for Surface Sampling. Astrobiology, 2022, 22, 509-519. | 3.0 | 6 |
| 10 | Bridge to the stars: A mission concept to an interstellar object. Planetary and Space Science, 2021, 197, 105137. | 1.7 | 17 |
| 11 | The In Situ Exploration of a Relict Ocean World: An Assessment of Potential Landing and Sampling Sites for a Future Mission to the Surface of Ceres. Planetary Science Journal, 2021, 2, 94. | 3.6 | 2 |
| 12 | Compositional control on impact crater formation on mid-sized planetary bodies: Dawn at Ceres and Vesta, Cassini at Saturn. Icarus, 2021, 359, 114343. | 2.5 | 14 |
| 13 | The Science Case for Spacecraft Exploration of the Uranian Satellites: Candidate Ocean Worlds in an Ice Giant System. Planetary Science Journal, 2021, 2, 120. | 3.6 | 19 |
| 14 | Replenishment of Near‣urface Water Ice by Impacts Into Ceres' Volatileâ€Rich Crust: Observations by Dawn's Gamma Ray and Neutron Detector. Geophysical Research Letters, 2021, 48, e2021GL094223. | 4.0 | 2 |
| 15 | Feasibility of characterizing subsurface brines on Ceres by electromagnetic sounding. Icarus, 2021, 362, 114424. | 2.5 | 7 |
| 16 | Laboratory Investigations Coupled to VIR/Dawn Observations to Quantify the Large Concentrations of Organic Matter on Ceres. Minerals (Basel, Switzerland), 2021, 11, 719. | 2.0 | 6 |
| 17 | Triton: Fascinating Moon, Likely Ocean World, Compelling Destination!. Planetary Science Journal, 2021, 2, 137. | 3.6 | 15 |
| 18 | A Recipe for the Geophysical Exploration of Enceladus. Planetary Science Journal, 2021, 2, 157. | 3.6 | 14 |

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| 19 | Searching for Subsurface Oceans on the Moons of Uranus Using Magnetic Induction. Geophysical Research Letters, 2021, 48, e2021GL094758. | 4.0 | 19 |
| 20 | VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. Astronomy and Astrophysics, 2021, 654, A56. | 5.1 | 50 |
| 21 | Organic Material on Ceres: Insights from Visible and Infrared Space Observations. Life, 2021, 11, 9. | 2.4 | 12 |
| 22 | Triton's Variable Interaction With Neptune's Magnetospheric Plasma. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029740. | 2.4 | 9 |
| 23 | Ceres: Astrobiological Target and Possible Ocean World. Astrobiology, 2020, 20, 269-291. | 3.0 | 43 |
| 24 | A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. Nature Astronomy, 2020, 4, 136-141. | 10.1 | 38 |
| 25 | Volume uncertainty of (7)Âlris shape models from disc-resolved images. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4545-4560. | 4.4 | 3 |
| 26 | The varied sources of faculae-forming brines in Ceres' Occator crater emplaced via hydrothermal brine effusion. Nature Communications, 2020, 11, 3680. | 12.8 | 41 |
| 27 | Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. Nature Communications, 2020, 11, 3679. | 12.8 | 19 |
| 28 | Evidence of non-uniform crust of Ceres from Dawn's high-resolution gravity data. Nature Astronomy, 2020, 4, 748-755. | 10.1 | 30 |
| 29 | Recent cryovolcanic activity at Occator crater on Ceres. Nature Astronomy, 2020, 4, 794-801. | 10.1 | 32 |
| 30 | Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. Nature Astronomy, 2020, 4, 741-747. | 10.1 | 50 |
| 31 | Future exploration of Ceres as an ocean world. Nature Astronomy, 2020, 4, 732-734. | 10.1 | 6 |
| 32 | Post-impact cryo-hydrologic formation of small mounds and hills in Ceres's Occator crater. Nature Geoscience, 2020, 13, 605-610. | 12.9 | 15 |
| 33 | Advanced Pointing Imaging Camera (APIC) for planetary science and mission opportunities. Planetary and Space Science, 2020, 194, 105095. | 1.7 | 10 |
| 34 | Relict Ocean Worlds: Ceres. Space Science Reviews, 2020, 216, 1. | 8.1 | 14 |
| 35 | Thermal convection in the crust of the dwarf planet $\hat{a} \in I$. Ceres. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5704-5712. | 4.4 | 6 |
| 36 | Ceres' partial differentiation: undifferentiated crust mixing with a water-rich mantle. Astronomy and Astrophysics, 2020, 633, A117. | 5.1 | 17 |

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| 37 | A bountiful harvest on Ceres. Nature Astronomy, 2020, 4, 807-807. | 10.1 | 3 |
| 38 | The violent collisional history of aqueously evolved (2) Pallas. Nature Astronomy, 2020, 4, 569-576. | 10.1 | 26 |
| 39 | Phoebe's differentiated interior from refined shape analysis. Astronomy and Astrophysics, 2020, 643, L10. | 5.1 | 3 |
| 40 | A Possible Brine Reservoir Beneath Occator Crater: Thermal and Compositional Evolution and Formation of the Cerealia Dome and Vinalia Faculae. Icarus, 2019, 320, 119-135. | 2.5 | 55 |
| 41 | Tectonic analysis of fracturing associated with occator crater. Icarus, 2019, 320, 49-59. | 2.5 | 21 |
| 42 | The central pit and dome at Cerealia Facula bright deposit and floor deposits in Occator crater, Ceres: Morphology, comparisons and formation. Icarus, 2019, 320, 159-187. | 2.5 | 28 |
| 43 | Small satellites for space science. Advances in Space Research, 2019, 64, 1466-1517. | 2.6 | 85 |
| 44 | Introduction to the Special Issue: Ice on Ceres. Journal of Geophysical Research E: Planets, 2019, 124, 1639-1649. | 3.6 | 1 |
| 45 | Dome formation on Ceres by solid-state flow analogous to terrestrial salt tectonics. Nature Geoscience, 2019, 12, 797-801. | 12.9 | 16 |
| 46 | Spectrophotometric modeling and mapping of Ceres. Icarus, 2019, 322, 144-167. | 2.5 | 21 |
| 47 | Slurry extrusion on Ceres from a convective mud-bearing mantle. Nature Geoscience, 2019, 12, 505-509. | 12.9 | 42 |
| 48 | The shape of (7) Iris as evidence of an ancient large impact?. Astronomy and Astrophysics, 2019, 624, A121. | 5.1 | 12 |
| 49 | Geophysical evidence that Saturn's Moon Phoebe originated from a C-type asteroid reservoir. Monthly Notices of the Royal Astronomical Society, 2019, 486, 538-543. | 4.4 | 12 |
| 50 | A Global Inventory of Iceâ€Related Morphological Features on Dwarf Planet Ceres: Implications for the Evolution and Current State of the Cryosphere. Journal of Geophysical Research E: Planets, 2019, 124, 1650-1689. | 3.6 | 33 |
| 51 | Thermal Evolution of the Impactâ€Induced Cryomagma Chamber Beneath Occator Crater on Ceres. Geophysical Research Letters, 2019, 46, 1213-1221. | 4.0 | 32 |
| 52 | Conditions for the Longâ€Term Preservation of a Deep Brine Reservoir in Ceres. Geophysical Research Letters, 2019, 46, 1963-1972. | 4.0 | 46 |
| 53 | Search for water outgassing of (1) Ceres near perihelion. Astronomy and Astrophysics, 2019, 628, A22. | 5.1 | 9 |
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| 55 | Water Vapor Contribution to Ceres' Exosphere From Observed Surface Ice and Postulated Iceâ€Exposing Impacts. Journal of Geophysical Research E: Planets, 2019, 124, 61-75. | 3.6 | 20 |
| 56 | The NASA Roadmap to Ocean Worlds. Astrobiology, 2019, 19, 1-27. | 3.0 | 209 |
| 57 | An aqueously altered carbon-rich Ceres. Nature Astronomy, 2019, 3, 140-145. | 10.1 | 62 |
| 58 | Normal Faults on Ceres: Insights Into the Mechanical Properties and Thermal History of Nar Sulcus. Geophysical Research Letters, 2019, 46, 80-88. | 4.0 | 7 |
| 59 | Post-impact thermal structure and cooling timescales of Occator crater on asteroid 1 Ceres. Icarus, 2019, 320, 110-118. | 2.5 | 44 |
| 60 | Synthesis of the special issue: The formation and evolution of Ceres' Occator crater. Icarus, 2019, 320, 213-225. | 2.5 | 17 |
| 61 | Introduction to the special issue: The formation and evolution of Ceres' Occator crater. Icarus, 2019, 320, 1-6. | 2.5 | 7 |
| 62 | Ceres' Occator crater and its faculae explored through geologic mapping. Icarus, 2019, 320, 7-23. | 2.5 | 25 |
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| 64 | Morphological Indicators of a Mascon Beneath Ceres's Largest Crater, Kerwan. Geophysical Research Letters, 2018, 45, 1297-1304. | 4.0 | 15 |
| 65 | Geologic constraints on the origin of red organicâ€rich material on Ceres. Meteoritics and Planetary Science, 2018, 53, 1983-1998. | 1.6 | 34 |
| 66 | Nature, formation, and distribution of carbonates on Ceres. Science Advances, 2018, 4, e1701645. | 10.3 | 83 |
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| 68 | A space-based decametric wavelength radio telescope concept. Experimental Astronomy, 2018, 46, 241-284. | 3.7 | 10 |
| 69 | The impact crater at the origin of the Julia family detected with VLT/SPHERE?. Astronomy and Astrophysics, 2018, 618, A154. | 5.1 | 29 |
| 70 | It's Complicated: A Big Data Approach to Exploring Planetesimal Evolution in the Presence of Jovian Planets. Astronomical Journal, 2018, 156, 232. | 4.7 | 26 |
| 71 | Ceres's internal evolution: The view after Dawn. Meteoritics and Planetary Science, 2018, 53, 1778-1792. | 1.6 | 20 |
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| 73 | Insights into Ceres's evolution from surface composition. Meteoritics and Planetary Science, 2018, 53, 1820-1843. | 1.6 | 73 |
| 74 | The geology of the Nawish quadrangle of Ceres: The rim of an ancient basin. Icarus, 2018, 316, 114-127. | 2.5 | 6 |
| 75 | DIFFERENT ORIGINS OR DIFFERENT EVOLUTIONS? DECODING THE SPECTRAL DIVERSITY AMONG C-TYPE ASTEROIDS. Astronomical Journal, 2017, 153, 72. | 4.7 | 55 |
| 76 | Geomorphological evidence for ground ice on dwarf planet Ceres. Nature Geoscience, 2017, 10, 338-343. | 12.9 | 83 |
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| 78 | Extensive water ice within Ceres' aqueously altered regolith: Evidence from nuclear spectroscopy. Science, 2017, 355, 55-59. | 12.6 | 169 |
| 79 | Evidence for the Interior Evolution of Ceres from Geologic Analysis of Fractures. Geophysical Research Letters, 2017, 44, 9564-9572. | 4.0 | 31 |
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| 81 | Water and Volatiles in the Outer Solar System. Space Science Reviews, 2017, 212, 835-875. | 8.1 | 44 |
| 82 | The interior structure of Ceres as revealed by surface topography. Earth and Planetary Science Letters, 2017, 476, 153-164. | 4.4 | 117 |
| 83 | Conditions for Sublimating Water Ice to Supply Ceres' Exosphere. Journal of Geophysical Research E: Planets, 2017, 122, 1984-1995. | 3.6 | 40 |
| 84 | Aqueous geochemistry in icy world interiors: Equilibrium fluid, rock, and gas compositions, and fate of antifreezes and radionuclides. Geochimica Et Cosmochimica Acta, 2017, 212, 324-371. | 3.9 | 74 |
| 85 | The Putative Cerean Exosphere. Astrophysical Journal, 2017, 850, 85. | 4.5 | 19 |
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| 87 | Water and Volatiles in the Outer Solar System. Space Sciences Series of ISSI, 2017, , 191-231. | 0.0 | 0 |
| 88 | SURFACE ALBEDO AND SPECTRAL VARIABILITY OF CERES. Astrophysical Journal Letters, 2016, 817, L22. | 8.3 | 42 |
| 89 | A partially differentiated interior for (1) Ceres deduced from its gravity field and shape. Nature, 2016, 537, 515-517. | 27.8 | 169 |
| 90 | Dawn arrives at Ceres: Exploration of a small, volatile-rich world. Science, 2016, 353, 1008-1010. | 12.6 | 178 |

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| 91 | Distribution of phyllosilicates on the surface of Ceres. Science, 2016, 353, . | 12.6 | 159 |
| 92 | Cryovolcanism on Ceres. Science, 2016, 353, . | 12.6 | 164 |
| 93 | Cratering on Ceres: Implications for its crust and evolution. Science, 2016, 353, . | 12.6 | 135 |
| 94 | Forward modeling of Ceres' Gravity Field for Planetary Protection Assessment. , 2016, , . | | 2 |
| 95 | Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. Nature, 2016, 536, 54-57. | 27.8 | 240 |
| 96 | Composition and structure of the shallow subsurface of Ceres revealed by craterÂmorphology. Nature Geoscience, 2016, 9, 538-542. | 12.9 | 118 |
| 97 | Core cracking and hydrothermal circulation can profoundly affect Ceres' geophysical evolution. Journal of Geophysical Research E: Planets, 2015, 120, 123-154. | 3.6 | 44 |
| 98 | Third-order development of shape, gravity, and moment of inertia for highly flattened celestial bodies. Application to Ceres. Astronomy and Astrophysics, 2015, 584, A127. | 5.1 | 18 |
| 99 | Enhanced flyby science with onboard computer vision: Tracking and surface feature detection at small bodies. Earth and Space Science, 2015, 2, 417-434. | 2.6 | 9 |
| 100 | Autonomous Onboard Point Source Detection by Small Exploration Spacecraft. Publications of the Astronomical Society of the Pacific, 2015, 127, 1279-1291. | 3.1 | 3 |
| 101 | Geomorphological evidence for transient water flow on Vesta. Earth and Planetary Science Letters, 2015, 411, 151-163. | 4.4 | 42 |
| 102 | The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140. | 1.7 | 56 |
| 103 | THE PUZZLING MUTUAL ORBIT OF THE BINARY TROJAN ASTEROID (624) HEKTOR. Astrophysical Journal Letters, 2014, 783, L37. | 8.3 | 54 |
| 104 | Dynamical delivery of volatiles to the outer main belt. Icarus, 2014, 232, 13-21. | 2.5 | 14 |
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| 106 | COMPOSITIONS AND ORIGINS OF OUTER PLANET SYSTEMS: INSIGHTS FROM THE ROCHE CRITICAL DENSITY. Astrophysical Journal Letters, 2013, 765, L28. | 8.3 | 33 |
| 107 | Enceladus: A hypothesis for bringing both heat and chemicals to the surface. Icarus, 2012, 221, 53-62. | 2.5 | 46 |
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| 111 | Geophysical evolution of Saturn's satellite Phoebe, a large planetesimal in the outer Solar System. Icarus, 2012, 219, 86-109. | 2.5 | 53 |
| 112 | The tidal history of Iapetus: Spin dynamics in the light of a refined dissipation model. Journal of Geophysical Research, 2011, 116, . | 3.3 | 82 |
| 113 | Constraining Ceres' interior from its rotational motion. Astronomy and Astrophysics, 2011, 535, A43. | 5.1 | 14 |
| 114 | Ceres – Neither a porous nor salty ball. Icarus, 2011, 215, 599-602. | 2.5 | 49 |
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| 116 | Ceres: Its Origin, Evolution and Structure and Dawn's Potential Contribution. Space Science Reviews, 2011, 163, 63-76. | 8.1 | 52 |
| 117 | Analytical description of physical librations of saturnian coorbital satellites Janus and Epimetheus. Icarus, 2011, 211, 758-769. | 2.5 | 19 |
| 118 | Ceres: Its Origin, Evolution and Structure and Dawn's Potential Contribution. , 2011, , 63-76. | | 31 |
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| 121 | Geophysical evolution of the Themis family parent body. Geophysical Research Letters, 2010, 37, . | 4.0 | 39 |
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| 127 | Internal structure of Rhea. Journal of Geophysical Research, 2006, 111, . | 3.3 | 19 |
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| 129 | The Relationship between Centaurs and Jupiter Family Comets with Implications for K-Pg-type Impacts. Monthly Notices of the Royal Astronomical Society, 0, , . | 4.4 | 4 |
| 130 | GAUSS - genesis of asteroids and evolution of the solar system. Experimental Astronomy, 0, , 1. | 3.7 | 5 |