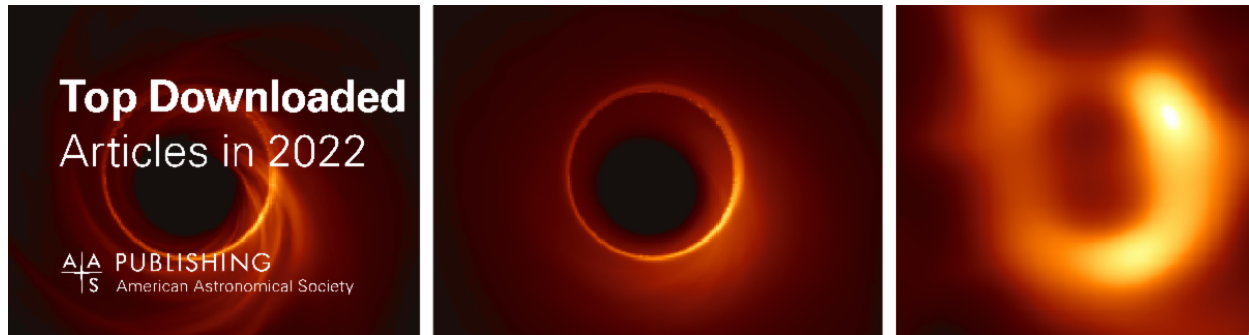

Year in Review: Top Downloaded AAS Journal Articles in 2022

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This year, we continued to receive and publish high-quality research across the astronomical sciences in our fully **open access journals**. Publishing open access means your research is free to read anywhere, anytime, and without barriers.

Below we explore some of the most popular articles published in 2022.

The Astronomical Journal (AJ)

[TOI-1452 b: SPIRou and TESS Reveal a Super-Earth in a Temperate Orbit Transiting an M4 Dwarf](#)

Charles Cadieux et al. 2022, *AJ* **164**, 96 | **137,315** downloads

[A Deep and Wide Twilight Survey for Asteroids Interior to Earth and Venus](#)

Scott S. Sheppard et al. 2022, *AJ* **164**, 168 | **44,323** downloads

The Astrophysical Journal (ApJ)

[Final Moments. I. Precursor Emission, Envelope Inflation, and Enhanced Mass Loss Preceding the Luminous Type II Supernova 2020tlf](#)

W. V. Jacobson-Galán et al. 2022, *ApJ* **924**, 15 | **99,292** downloads

[A Mildly Relativistic Outflow Launched Two Years after Disruption in Tidal Disruption Event AT2018hyz](#)

Y. Cendes et al. 2022, *ApJ* **938**, 28 | **25,515** downloads

The Astrophysical Journal Letters (ApJL)

[First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way](#)

Event Horizon Telescope Collaboration et al. 2022, *ApJL* **930**, L12 | **47,123** downloads

Hubble Space Telescope Detection of the Nucleus of Comet C/2014 UN₂₇₁ (Bernardinelli–Bernstein)

Man-To Hui et al. 2022, *ApJL* **929**, L12 | **41,051** downloads

The Astrophysical Journal Supplement Series (ApJS)

BASS. XXX. Distribution Functions of DR2 Eddington Ratios, Black Hole Masses, and X-Ray Luminosities

Tonima Tasnim Ananna et al. 2022, *ApJS* **261**, 9 | **111,329** downloads

The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data

Abdurro'uf et al. 2022, *ApJS* **259**, 35 | **4,689** downloads

The Planetary Science Journal (PSJ)

Subseasonal Variation in Neptune's Mid-infrared Emission

Michael T. Roman et al. 2022, *Planet. Sci. J.* **3**, 78 | **13,578** downloads

CI Asteroid Regolith as an In Situ Plant Growth Medium for Space Crop Production

Steven. J. Russell et al. 2022, *Planet. Sci. J.* **3**, 155 | **11,652** downloads

Research Notes of the AAS (RNAAS)

The Closest Past Flyby of a Known Star to the Solar System: HD 7977, UCAC4 237-008148 or WISE J072003.20-084651.2?

Raúl de la Fuente Marcos and Carlos de la Fuente Marcos 2022, *Res. Notes AAS* **6**, 152 | **31,941** downloads

How to Become a Mini-Moon: Some Hints from 2022 NX₁

Carlos de la Fuente Marcos and Raúl de la Fuente Marcos 2022, *Res. Notes AAS* **6**, 160 | **22,846** downloads

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