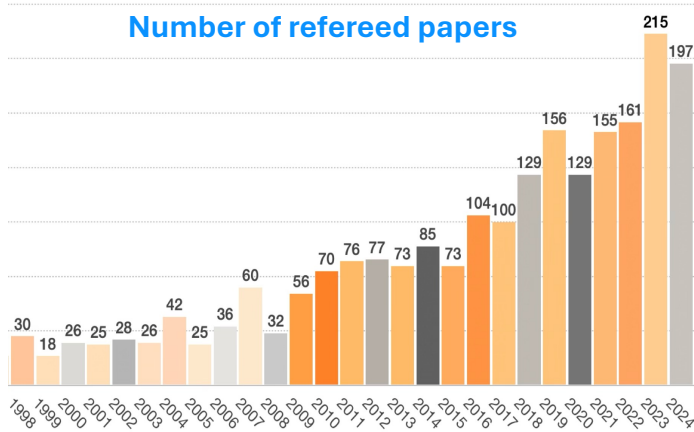
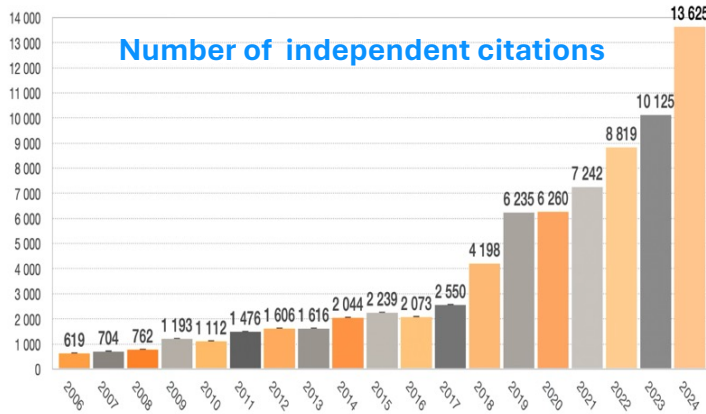


## Scientific performance

Number of refereed papers



Number of independent citations



## Highlighted publications from 2024

- Demirbozan, U., ..., **Kovács, A.** et al. (2024): *The gravitational lensing imprints of DES Y3 superstructures on the CMB: a matched filtering approach*, **Monthly Notices of the Royal Astronomical Society** 534, 2328
- Joyce, M.** et al (2024): *Stellar Evolution in Real Time II: R Hydrae and an Open-Source Grid of >3000 Seismic TP-AGB Models Computed with MESA*, **The Astrophysical Journal** 971, A186
- Kereszturi, Á.** et al. (2024): *Raman spectroscopy analysis of artificial space weathering effects of NWA 10580 CO3 meteorite* **Meteoritics and Planetary Science** 59, 2851
- Kiss, Cs.** et al (2024): *Prominent Mid-infrared Excess of the Dwarf Planet (136472) Makemake Discovered by JWST/MIRI Indicates Ongoing Activity* **The Astrophysical Journal Letters**, 976, L9
- Leckenby, G., ..., **Lugaro, M.** (corresponding author) et al (2024): *High-temperature <sup>205</sup>Tl decay clarifies <sup>205</sup>Pb dating in early Solar System* **Nature**, 635, 321-326
- Liu, F., ..., **Joyce, M.** et al (2024): *At least one in a dozen stars shows evidence of planetary ingestion* **Nature** 627, 501
- Pichierri, G., ..., **Brasser, R.** (2024): *The formation of the TRAPPIST-1 system in two steps during the recession of the disk inner edge*, **Nature Astronomy** 8, 1408
- Regős, E.** et al. (2024): *Percolation Statistics in the MillenniumTNG Simulations* **The Astrophysical Journal** 974, 126
- Strassmeier, K. G., **Kóvári, Z.**, et al (2024): *Long-term Doppler imaging of the star XX Trianguli indicates chaotic non-periodic dynamo*, **Nature Communications** 15, 9986
- Varga, J.** et al (2024): *Mid-infrared evidence for iron-rich dust in the multi-ringed inner disk of HD 144432* **Astronomy & Astrophysics** 681, A47
- Werner, N., ..., **Pál, A.** et al. (2024): *Science with a Small Two-Band UV-Photometry Mission I: Mission Description and Follow-up Observations of Stellar Transients*, **Space Science Reviews** 220, A11

## We are proud of:

Leading astronomical institute in Hungary since 1899  
**Konkoly Research Assistant Program – the future**  
**Konkoly Nobel Program – in the forefront of research**  
**Researchers from abroad: 20% – internationalization**

Number of Q1-Q4 [Q1/D1] publications per researcher **3,1 [2,9]**

Impakt factor per researcher (2024) **16,5**

Number of PhD degrees (2020-2024): **14**

**2 GINOP, 2 ERC, 2 Élvtal, 7 Lendület grants**

## Higher education connections



## Public outreach

- Svábhegyi Observatory:**
- interactive astronomical visitor center
  - (science) communication, PR, media
  - **More than 20,000 visitors (2024)**
  - **1494 media appearances (2024)**
  - **986.5 MHUF advertizing equivalence (2024)**
  - **Reaching 46.3 million people (2024)**
  - International Olympiad on Astronomy and Astrophysics: preparation, training, and organization of all national events (Athletica Galactica )

## Our research infrastructures:

### Piszkéstető Mountain Station:

- Hungary's national observatory
- Operates the largest telescopes in the country
- World leader in the discovery of near-Earth asteroids and impactors

### GRBAlpha:

- Hungary's first cubesat-sized astrophysical satellite to detect gamma-ray bursts.

