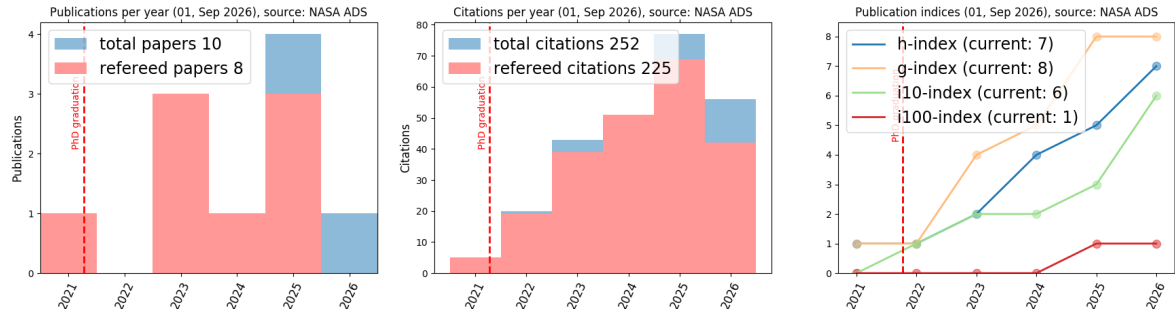




Dr. Tim-Eric Rathjen - complete publication list

First author publications:

1. *Why is there cold gas inside the Local Bubble?*
Tim-Eric Rathjen & Jeffrey L. Linksy
[arXiv:2608.27603](#) (2026)
2. *SILCC - VIII: The impact of far-ultraviolet radiation on star formation and the interstellar medium*
Tim-Eric Rathjen, Stefanie Walch, Thorsten Naab, Pierre Nürnberger, Richard Wunsch, Daniel Seifried, Simon C.O. Glover
Monthly Notices of the Royal Astronomical Society, 540, 1462 (2025)
3. *SILCC VII - Gas kinematics and multiphase outflows of the simulated ISM at high gas surface densities*
Tim-Eric Rathjen, Thorsten Naab, Stefanie Walch, Daniel Seifried, Philipp Girichidis, Richard Wunsch
Monthly Notices of the Royal Astronomical Society, 522, 1843 (2023)
4. *SILCC VI - Multi-phase ISM structure, stellar clustering, and outflows with supernovae, stellar winds, ionising radiation and cosmic rays*
Tim-Eric Rathjen, Thorsten Naab, Philipp Girichidis, Stefanie Walch, Richard Wunsch, František Dinnbier, Daniel Seifried, Ralf S. Klessen, Simon C.O. Glover
Monthly Notices of the Royal Astronomical Society, 504, 1039 (2021)

Co-author publications:

1. *Impact of Cosmic Ray Acceleration on the Early Evolution of Bow Shocks around Massive Run-away Stars*
Keito Watanabe, Stefanie Walch, **Tim-Eric Rathjen**, Jonathan Mackey, Pierre Colin Nürnberger, Philipp Girichidis
[arXiv:2510.11988](#) (2025)
2. *SILCC - IX. The multiphase interstellar medium at low metallicity*
Vittoria Brugaletta, Stefanie Walch, Thorsten Naab, **Tim-Eric Rathjen**, Philipp Girichidis, Daniel Seifried, Pierre Colin Nürnberger, Richard Wunsch, Simon C.O. Glover, Sanjit Pal, Lukas Wasmuth
Monthly Notices of the Royal Astronomical Society, 543, 4286 (2025)
3. *The impact of cosmic ray heating on the cooling of the low-metallicity interstellar medium*
Vittoria Brugaletta, Stefanie Walch, Thorsten Naab, Philipp Girichidis, **Tim-Eric Rathjen**, Daniel Seifried, Pierre Colin Nürnberger, Richard Wunsch, Simon C.O. Glover
Monthly Notices of the Royal Astronomical Society, 537, 482 (2025)

4. *The masses, structure and lifetimes of cold clouds in a high-resolution simulation of a low metallicity starburst*
Constantina M. Fotopoulou, Thorsten Naab, Natalia Lahén, Miha Cernetic, **Tim-Eric Rathjen**,
Ulrich P. Steinwandel, Jessica M. Hislop, Stefanie Walch, Peter H. Johansson
Monthly Notices of the Royal Astronomical Society, 534, 215 (2024)
5. *CO and [CII] line emission of molecular clouds - the impact of stellar feedback and non-equilibrium chemistry*
Stefano Ebagezio, Daniel Seifried, Stefanie Walch, Pierre C. Nürnbergger, **Tim-Eric Rathjen**,
Thorsten Naab
Monthly Notices of the Royal Astronomical Society, 525, 5631 (2023)
6. *How do supernova remnants cool? - I. Morphology, optical emission lines, and shocks*
Ekaterina I. Makarenko, Stefanie Walch, Seamus D. Clarke, Daniel Seifried, Thorsten Naab, Pierre
C. Nürnbergger, **Tim-Eric Rathjen**
Monthly Notices of the Royal Astronomical Society, 523, 1421 (2023)

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