



Curriculum Vitae

Frank Tramper, PhD

Postdoctoral Researcher at KU Leuven

OFFICE ADDRESS

Institute of Astronomy
KU Leuven
Celestijnenlaan 200D bus 2401
3001 Heverlee (Leuven)
Belgium

PERSONAL ADDRESS

Naamsestraat 171 bus 0001
3000 Leuven
Belgium

CONTACT

Mobile phone: +32 467079295
Email: frank.tramper@kuleuven.be
URL: franktramper.com

PERSONAL DATA

Nationality: Dutch
Date of birth: 30 August 1981
Languages: Dutch (native), English (fluent)

PUBLICATIONS LIST



Scientific Interests

My main scientific interest concerns the observational study of massive stars in their various stages of evolution (O-type, luminous blue variables, Wolf-Rayets). Areas of particular interest are the effect of metallicity on the physical properties of these stars and their stellar winds, and stars in their most advanced evolutionary stages. I have extensive experience in data reduction and analysis of spectroscopic observations, and the use of the model atmosphere codes *Fastwind* and *cmfgen*.

Main professional achievements

- First author of six and co-author of 34 publications in peer-reviewed international journals (h-index: 25)
- Principal investigator on nine allocated ESO/VLT observing programmes (over 130 hours of telescope time), including two visitor mode runs on VLT/X-Shooter
- Co-lead of the data reduction working group of the XShootU project
- Daily supervisor of a trainee and a master student, and co-supervisor of four master students and a bachelor student

Work experience & education

Nov 2021 - current	Postdoc, KU Leuven, Belgium <u>Advisor:</u> prof. dr. Hugues Sana
Jan 2019 - Oct 2021	Postdoc, National Observatory of Athens, Greece <u>Advisor:</u> dr. Alceste Bonanos
Jan 2016 - Dec 2018	ESA Research Fellow, European Space Astronomy Centre, Villanueva de la Cañada, Madrid, Spain <u>Advisor:</u> dr. Danny Lennon
Nov 2014 - Dec 2015:	Postdoc, University of Amsterdam, The Netherlands <u>Advisor:</u> prof. dr. Alex de Koter
Nov 2010 - Nov 2014	PhD in Astronomy, University of Amsterdam, The Netherlands <u>Supervisors:</u> prof. dr. Alex de Koter; prof. dr. Lex Kaper; prof. dr. Hugues Sana <u>Thesis:</u> "The properties of low-metallicity massive stars" (available at ADS)
Sep 2008 - Aug 2010:	Master in Astronomy & Astrophysics (MSc), University of Amsterdam, The Netherlands <u>Thesis:</u> "SAX J1808: An Extremely Cold Accreting Neutron Star"
Sep 2003 - Oct 2008:	<u>Supervisors:</u> dr. Alessandro Patruno, dr. Rudy Wijnands Bachelor in Physics & Astronomy (BSc), University of Amsterdam, The Netherlands <u>Thesis:</u> "Fitting an Outflow Dominated Model to Quasi-Simultaneous Multiwavelength Cygnus X-1 Data" <u>Supervisor:</u> prof. dr. Sera Markoff

Collaborations

I actively participate in the following world-wide collaborations:

- *VFTS in the SMC (name/acronym to be determined)*: a 25 epoch ESO Large Programme targeting 1000 massive stars in the Small Magellanic Cloud with FLAMES
- *The ULLYSES and XSHOOTER massive star collaboration (XShootU)*: an ESO Large Programme targeting all massive stars of the ULLYSES sample with X-Shooter
- *The VLT/FLAMES Tarantula Survey (VFTS)*: A multi-epoch ESO Large Programme targeting about 1000 massive stars in the 30 Doradus region (Tarantula nebula)
- *The Tarantula Massive Binary Monitoring (TMBM) project*: A 30-epoch VFTS follow-up of 102 massive binaries in the 30 Doradus region
- *Southern Massive Stars at High Angular Resolution (SMASH+)*: An interferometric programme on VLTi/PIONEER and VLT/NACO (SAM) to detect interferometric companions to all nearby Southern O-type stars

Teaching experience

Below is a summary of my teaching activities. Activities from 2011 to 2015 were performed at the University of Amsterdam, from 2017 at the European Space Astronomy Centre, and from 2023 at the KU Leuven.

- 2023: High Energy and Gravitational Wave astrophysics, lab sessions, master course
- 2017: Daily supervision ESA Trainee project on the effect of mass loss on the evolution of WR stars (6 months)
- 2013/2014: Daily supervision master project on WO stars (1 year) of a master student
Publication: Tramper et al. 2015, A&A, 581, 110
- 2012-2015: Co-supervision of four master projects (1 year) and one bachelor project (2 months)
Publications: Sana et al. 2013, MNRAS, 432, 26; Tramper et al. 2016, MNRAS, 455, 1275; Grin et al. 2017, A&A, 600, 82
- Fall 2012: Astronomy I, exercise sessions, 1st year bachelor course
- Fall 2011: Observation Lab, 3rd year bachelor course
- Fall 2011: Stellar atmospheres and radiative transfer, exercise sessions, master course
- Spring 2011: Observation Lab, 3rd year bachelor course

Seminars

Listed below are talks given at various institutes. Presentations given at conferences are listed under the "Conference and workshop participation" section.

- "O-Star Spectroscopy"
Nicolaus Copernicus University, Toruń, Poland, 24 May 2023 (invited lecture)
- "Massive stars: binaries, Wolf-Rayets, and the Early Universe connection"
NOVA Network II meeting, University of Amsterdam, Amsterdam, The Netherlands, 5 November 2018 (keynote speaker)
- "Massive stars: binaries, Wolf-Rayets, and the Early Universe connection"
European Space Astronomy Centre, Villanueva de la Cañada, Spain, 15 June 2017
- "Massive stars: binaries, Wolf-Rayets, and the Early Universe connection"
Royal Observatory Edinburgh, Edinburgh, UK, 22 February 2017 (invited seminar)
- "Massive stars: binaries, Wolf-Rayets, and the Early Universe connection"
Armagh Observatory, Armagh, UK, 6 October 2016
- "The oxygen Wolf-Rayet stars: Massive stars on the verge of exploding"
Space Telescope Science Institute, Baltimore, MD, USA, 15 August 2014
- "The oxygen Wolf-Rayet stars: Massive stars on the verge of exploding"
Goddard Space Flight Center, Greenbelt, MD, USA, 7 August 2014
- "The mass-loss of low-metallicity massive stars"
ESO offices Vitacura, Santiago, Chile, 25 October 2011

Observing programmes

Observing programmes of which I am the principal investigator:

- VLT/X-Shooter; I 12.25D I, 33.3 hours: “X-Shooting ULLYSES: The Physics of Massive Stars at Low Metallicity - Part II”
- VLT/X-Shooter; I 10.23VJ, 1.3 hours: “X-Shooting dusty red supergiants in the SMC”
- VLT/FORS2, I 09.22W2, 4.2 hours: “The role of episodic mass loss in the evolution of massive stars”
- VLT/MUSE, I 08.22 I U, 12 hours: “The early Universe next door: a MUSE view of the extremely low-metallicity galaxy Sextans A”
- VLT/FORS2, I 05.20HJ, 42.3 hours: “The role of episodic mass loss in the evolution of massive stars”
- VLT/UVES, 0100.D-0192, 1.6 nights: “Elucidating the nature of nitrogen-rich slowly-rotating massive stars in 30 Doradus.”
- VLT/X-Shooter; 093.D-059 I, 2 hours: “Investigating the nature of WO stars: hot WC stars or a separate evolutionary stage?”
- VLT/X-Shooter; 090.D-02 I 2, 2 nights: “Quantitative spectroscopy of massive stars in the low-metallicity galaxy NGC 3109: testing the mass-loss versus metallicity relation.”
- VLT/X-Shooter; 088.D-018 I, 1 night: “Quantitative spectroscopy of massive stars in low metallicity environments: IC 1613.”

Notable Co-I programmes:

- VLT/FLAMES, I 12.25R7 (PI: Shenar), I 16.7 hours: “Towards an understanding of massive stars in the Early Universe: FLAMES monitoring of ~1000 massive stars in the SMC”
- JWST/NIRSPEC, 3225 (PI: Garcia), 67 hours: “What are the real mass loss rates of massive stars?”
- VLT/GRAVITY, I 11.24JN (PI: Sana), 49 hours: “Elucidating the evolutionary connections between nitrogen- and carbon-rich Wolf-Rayet stars”

Conference and workshop organisation

- 3, 2, 1: Massive Triples, Binaries, and Mergers 2023, Conference, 17-21 July 2023, Leuven, Belgium
Local Organising Committee
- ESA/ESO SciOps Workshop 2017: The challenge of distributed science operations Workshop, 17-20 October 2017, Villanueva de la Cañada, Spain
Local Organising Committee

Conference and workshop participation

- ULLYSES - new horizons in massive star spectroscopy
Lorentz workshop, 7-11 November 2022, Leiden, The Netherlands
- IAUS 361: Massive Stars Near and Far
Conference, 9-13 May 2022, Ballyconnell, Ireland
Poster: “Slowly rotation nitrogen rich O stars in 30 Doradus”
- ULLYSES Sets Sail: Massive Star Spectroscopy with the HST and the ESO VLT
Lorentz workshop, 13-17 December 2021, online
- 14th Hellenic Astronomical Conference
Conference, 8-11 July 2019, Volos, Greece
Talk: “Southern Massive Stars at High Angular Resolution”
Poster: “Slowly-rotating nitrogen rich O stars in 30 Doradus”
- Supernova Remnants II: An Odyssey in Space after Stellar Death
Conference, 3-8 June 2019, Chania, Greece
- The physics of evolved stars II: the role of binarity
Conference, 10-13 July 2017, Nice, France
- EWASS 2017
Conference, 26-30 June 2017, Prague, Czech Republic
- The Lives and Death-Throes of Massive Stars
Conference, 28 November - 2 December 2016, Auckland, New Zealand
Poster: “A new prescription for the mass-loss rates of hydrogen-free WR stars”

- EWASS 2016
Conference, 4-8 July 2016, Athens, Greece
Talk: "A new prescription for hydrogen-free WR mass loss"
- From massive stars to supernovae
Workshop, 1-2 June 2016, Buckinghamshire, UK
Poster: "A new prescription for the mass-loss rates of hydrogen-free Wolf-Rayet stars"
- International Workshop on Wolf-Rayet stars
Workshop, 1-5 June 2015, Potsdam, Germany
Talk: "The oxygen sequence Wolf-Rayets: WR stars on the verge of exploding"
- Magnetism and variability in O stars
Conference, 17-19 September 2014, Amsterdam, Netherlands
Talk: "The properties of low-metallicity O-type stars"
- IAUS 307, New windows on massive stars
Conference, 23-27 June 2014, Geneva, Greece
Poster: "The oxygen Wolf-Rayet stars: Massive stars on the verge of exploding"
- Massive stars: from α to Ω
Conference, 10-14 June 2013, Rhodes, Greece
Poster: "On the nature of WO stars: an analysis of the WO3 star DR1"
- 30 Doradus: The starburst next door
Workshop, 17-19 September 2012, Baltimore, USA
- IAU General Assembly
Conference, 20-28 August 2012, Beijing, China
Talk: "On the mass-loss rate of massive stars in sub-SMC metallicity environments"
Poster: "DR1: A WO3 star in the low-metallicity galaxy IC 1613"
- Scicoder Workshop
Workshop, 23-27 July 2012, New York, USA
- 370 years of astronomy in Utrecht
Conference, 3-4 April 2012, Noordwijkerhout, The Netherlands
- Four decades of massive star research: a scientific meeting in honour of Anthony F.J. Moffat
Conference, 11-15 July 2011, Saint-Michel-des-Saints, Canada
Poster: "The mass-loss and wind properties of six O-type stars in low-metallicity environments"
- VLT/FLAMES Tarantula Survey (VFTS) consortium meetings
 - 27-29 March 2023, Garching, Germany
 - 13-15 May 2019, Edinburgh, UK
 - 16-18 April 2019, Tenerife, Spain
 - 17-19 May 2017, Leuven, Belgium
 - 17-19 May 2016, Smolyan, Bulgaria
 - 23-25 March 2015, Sheffield, UK
 - 25-27 February 2014, Granada, Spain
 - 11-13 March 2013, Bonn, Germany
 - 20 September 2012, Baltimore, USA
 - 5-9 March 2012, Tenerife, Spain
 - 30 May - 1 June 2011, Armagh, Northern Ireland
- Dutch Astronomy Conference (NAC) 2009, 2010, 2011, 2012 & 2013

Publications

Below is a list of all my refereed and selected notable non-refereed publications. The full list including all non-peer reviewed publications can be found as an ADS library at the following URL:

<https://goo.gl/UXfu58>

A. Papers in preparation (to be published in 2023 / early 2024)

1. "X-Shooting ULLYSES: Massive Stars at low metallicity. II. Advanced optical data products for the Magellanic Clouds"
Sana, H., **Tramper, F.**, et al.
Submitted to *Astronomy & Astrophysics* (Jul 2023)
2. "Investigating episodic mass loss in evolved massive stars. I. VLT/FORS2 spectroscopy of dusty massive stars in ten southern galaxies"
Tramper, F., Bonanos, A., et al.
To be submitted to *Astronomy & Astrophysics* (planned Sep 2023)
3. "Chemically homogeneously evolving stars as the source of Wolf-Rayet stars and He II ionization in the extremely low metallicity galaxy I Zwicky 18" (working title)
Szécsi, D., **Tramper, F.**, et al.
To be submitted to *Nature Astronomy* (planned Oct 2023)
4. "Southern massive stars at high angular resolution. Physical separations and mass ratios"
Tramper, F., Sana, H., et al.
To be submitted to *Astronomy & Astrophysics* (planned Nov 2023)
5. "Slowly rotating nitrogen-rich O-type stars in 30 Doradus"
Tramper, F., Sana, H., et al.
To be submitted to *Astronomy & Astrophysics* (planned Jan 2024)

B. First author refereed publications

1. "A new prescription for the mass-loss rates of WC and WO stars"
Tramper, F., Sana, H.; de Koter, A.
The Astrophysical Journal, 833, 133 (2016)
2. "The mass of the very massive binary WR21a"
Tramper, F., Sana, H.; Fitzsimons, N. E.; de Koter, A.; Kaper, L.; Mahy, L.; Moffat, A.
Monthly Notices of the Royal Astronomical Society, 455, 1275 (2016)
3. "Massive stars on the verge of exploding: the properties of oxygen sequence Wolf-Rayet stars"
Tramper, F., Straal, S. M.; Sanyal, D.; Sana, H.; de Koter, A.; Gräfener, G.; Langer, N.; Vink, J. S.; de Mink, S. E.; Kaper, L.
Astronomy & Astrophysics, 581, 110 (2015)
4. "The properties of ten O-type stars in the low-metallicity galaxies IC 1613, WLM and NGC 3109"
Tramper, F., Sana, H.; de Koter, A.; Kaper, L.; Ramírez-Agudelo, O. H.
Astronomy & Astrophysics, 572, 36 (2014)
5. "On the nature of WO stars: a quantitative analysis of the WO3 star DR1 in IC 1613"
Tramper, F., Gräfener, G.; Hartoog, O. E.; Sana, H.; de Koter, A.; Vink, J. S.; Ellerbroek, L. E.; Langer, N.; García, M.; Kaper, L.; de Mink, S. E.
Astronomy & Astrophysics, 559, 72 (2013)
6. "On the mass-loss rate of massive stars in the low-metallicity galaxies IC 1613, WLM and NGC 3109"
Tramper, F., Sana, H.; de Koter, A.; Kaper, L.
The Astrophysical Journal Letters, 741, L8 (2011)

C. Co-author refereed publications

1. "Evolved Massive Stars at Low-metallicity. V. Mass-Loss Rates of Red Supergiants in the Small Magellanic Cloud"
Yang, Ming; Bonanos, Alceste Z.; Jiang, Biwei; Zapartas, Emmanouil; Gao, Jian; Ren, Yi; Lam, Man I; Wang, Tianding; Maravelias, Grigoris; Gavras, Panagiotis; Wang, Shu; Chen, Xiaodian; **Tramper, Frank**; de Wit, Stephan; Chen, Bingqiu; Wen, Jing; Liu, Jiaming; Tian, Hao; Antoniadis, Konstantinos; Luo, Changqing
Astronomy & Astrophysics, in press (2023)
2. "X-Shooting ULLYSES: Massive stars at low metallicity. I. Project description"
Vink, Jorick S. ; Mehner, A. ; Crowther, P.A. ; Fullerton, A. ; Garcia, M.; Martins, F.; Morrell, N.; Oskinova, L. M.; St-Louis, N.; ud-Doula, A.; Sander, A. A. C.; Sana, H.; Bouret, J. -C.; Kubátová, B.; Marchant, P.; Martins, L. P.; Wofford, A.; van Loon, J. Th.; Grace Telford, O.; Götzberg, Y.; Bowman, D. M.; Erba, C.; Kalari, V. M.; Abdul-Masih, M.; Alkousa, T.; Backs, F.; Barbosa, C. L.; Berlanas, S. R.; Bernini-Peron, M.; Bestenlehner, J. M.; Blomme, R.; Bodensteiner, J.; Brands, S. A.; Evans, C. J.; David-Uraz, A.; Driessen, F. A.; Dsilva, K.; Geen, S.; Gómez-González, V. M. A.; Grassitelli, L.; Hamann, W. -R.; Hawcroft, C.; Herrero, A.; Higgins, E. R.; John Hillier, D.; Ignace, R.; Istrate, A. G.; Kaper, L.; Kee, N. D.; Kehrig, C.; Keszthelyi, Z.; Klencki, J.; de Koter, A.; Kuiper, R.; Laplace, E.; Larkin, C. J. K.; Lefever, R. R.; Leitherer, C.; Lennon, D. J.; Mahy, L.; Maíz Apellániz, J.; Maravelias, G.; Marcolino, W.; McLeod, A. F.; de Mink, S. E.; Najarro, F.; Oey, M. S.; Parsons, T. N.; Pauli, D.; Pedersen, M. G.; Prinja, R. K.; Ramachandran, V.; Ramírez-Tannus, M. C.; Sabhahit, G. N.; Schootemeijer, A.; Reyer Serantes, S.; Shenar, T.; Stringfellow, G. S.; Sudnik, N.; **Tramper, F.**; Wang, L.
Astronomy & Astrophysics, 675, 154 (2023)
3. "Discovering New B[e] Supergiants and Candidate Luminous Blue Variables in Nearby Galaxies"
Maravelias, Grigoris; de Wit, Stephan; Bonanos, Alceste Z.; **Tramper, Frank**; Munoz-Sanchez, Gonzalo; Christodoulou, Evangelia
Galaxies, 11, 79 (2023)
4. "Properties of luminous red supergiants in the Magellanic Clouds"
de Wit, S.; Bonanos, A. Z.; **Tramper, F.**; Yang, M.; Maravelias, G.; Boutsia, K.; Britavskiy, N.; Zapartas, E.
Astronomy & Astrophysics, 669, 86 (2023)
5. "A machine-learning photometric classifier for massive stars in nearby galaxies. I. The method"
Maravelias, Grigoris; Bonanos, Alceste Z.; **Tramper, Frank**; de Wit, Stephan; Yang, Ming; Bonfini, Paolo
Astronomy & Astrophysics, 666, 122 (2022)
6. "The young massive SMC cluster NGC 300 seen by MUSE. II. Multiplicity properties of the massive-star population"
Bodensteiner, J.; Sana, H.; Wang, C.; Langer, N.; Mahy, L.; Banyard, G.; de Koter, A.; de Mink, S. E.; Evans, C. J.; Götzberg, Y.; Patrick, L. R.; Schneider, F. R. N.; **Tramper, F.**
Astronomy & Astrophysics, 652, 70 (2021)
7. "Massive stars in extremely metal-poor galaxies: a window into the past"
Garcia, Miriam; Evans, Christopher J.; Bestenlehner, Joachim M.; Bouret, Jean Claude; Castro, Norberto; Cerviño, Miguel; Fullerton, Alexander W.; Gieles, Mark; Herrero, Artemio; de Koter, Alexander; Lennon, Daniel J.; van Loon, Jacco Th.; Martins, Fabrice; de Mink, Selma E.; Najarro, Francisco; Negueruela, Ignacio; Sana, Hugues; Simón-Díaz, Sergio; Szécsi, Dorottya; **Tramper, Frank**; Vink, Jorick S.; Wofford, Aida
Experimental Astronomy, 51, 887 (2021)

8. "Evolved massive stars at low-metallicity. IV. Using the $1.6\ \mu\text{m}$ H-bump to identify red supergiant stars: Case study of NGC 6822"
Yang, Ming; Bonanos, Alceste Z.; Jiang, Biwei; Lam, Man I.; Gao, Jian; Gavras, Panagiotis; Maravelias, Grigoris; Wang, Shu; Chen, Xiao-Dian; **Tramper, Frank**; Ren, Yi; Spetsieri, Zoi T.
Astronomy & Astrophysics, 647, 167 (2021)
9. "Evolved massive stars at low-metallicity. III. A source catalog for the Large Magellanic Cloud"
Yang, Ming; Bonanos, Alceste Z.; Jiang, Biwei; Gao, Jian; Gavras, Panagiotis; Maravelias, Grigoris; Wang, Shu; Chen, Xiao-Dian; Lam, Man I.; Ren, Yi; **Tramper, Frank**; Spetsieri, Zoi T.
Astronomy & Astrophysics, 646, 141 (2021)
10. "Reconstructing the EUV Spectrum of Star-forming Regions from Millimeter Recombination Lines of H I, He I, and He II"
Murchikova, Lena; Murphy, Eric J.; Lis, Dariusz C.; Armus, Lee; de Mink, Selma; Sheth, Kartik; Zakamska, Nadia; **Tramper, Frank**; Bongiorno, Angela; Elvis, Martin; Kewley, Lisa; Sana, Hugues
The Astrophysical Journal, 903, 29 (2020)
11. "Evolved massive stars at low metallicity. II. Red supergiant stars in the Small Magellanic Cloud"
Yang, Ming; Bonanos, Alceste Z.; Jiang, Bi-Wei; Gao, Jian; Gavras, Panagiotis; Maravelias, Grigoris; Wang, Shu; Chen, Xiao-Dian; **Tramper, Frank**; Ren, Yi; Spetsieri, Zoi T.; Xue, Meng-Yao
Astronomy & Astrophysics, 639, 116 (2020)
12. "Properties of OB star-black hole systems derived from detailed binary evolution models"
Langer, N.; Schürmann, C.; Stoll, K.; Marchant, P.; Lennon, D. J.; Mahy, L.; de Mink, S. E.; Quast, M.; Riedel, W.; Sana, H.; Schneider, P.; Schootemeijer, A.; Wang, C.; Almeida, L. A.; Bestenlehner, J. M.; Bodensteiner, J.; Castro, N.; Clark, S.; Crowther, P. A.; Dufton, P. Evans, C. J.; Fossati, L.; Gräfenr, G.; Grassitelli, L.; Grin, N.; Hastings, B.; Herrero, A.; de Koter, A.; Menon, A.; Patrick, L.; Puls, J.; Renzo, M.; Sander, A. A. C.; Schneider, F. R. N.; Sen, K.; Shenar, T.; Simón-Días, S.; Tauris, T. M.; **Tramper, F.**; Vink, J. S.; Xu, X. -T.
Astronomy & Astrophysics, 638, 39 (2020)
13. "The Tarantula Massive Binary Monitoring. IV. Double-lined photometric binaries"
Mahy, L.; Almeida, L. A.; Sana, H.; Clark, J. S.; de Koter, A.; de Mink, S. E.; Evans, C. J.; Grin, N. J.; Langer, N.; Moffat, A. F. J.; Schneider, F. R. N.; Shenar, T.; **Tramper, F.**
Astronomy & Astrophysics, 634, 119 (2020)
14. "The Tarantula Massive Binary Monitoring. III. Atmosphere analysis of double-lined spectroscopic systems"
Mahy, L.; Sana, H.; Abdul-Masih, M.; Almeida, L. A.; Langer, N.; Shenar, T.; de Koter, A.; de Mink, S. E.; de Wit, S.; Grin, N. J.; Evans, C. J.; Moffat, A. F. J.; Schneider, F. R. N.; Barbá, R.; Clark, J. S.; Crowther, P.; Gräfenr, G.; Lennon, D. J.; **Tramper, F.**; Vink, J. S.
Astronomy & Astrophysics, 634, 118 (2020)
15. "The young massive SMC cluster NGC 330 seen by MUSE. I. Observations and stellar content"
Bodensteiner, J.; Sana, H.; Mahy, L.; Patrick, L. R.; de Koter, A.; de Mink, S. E.; Evans, C. J.; Götzberg, Y.; Langer, N.; Lennon, D. J.; Schneider, F. R. N.; **Tramper, F.**
Astronomy & Astrophysics, 634, A51 (2020)
16. "Discovery of a Red Supergiant Donor Star in SN2010da/NGC 300 ULX-1"
Heida, M.; Lau, R. M.; Davies, B.; Brightman, M.; Fürst, F.; Grefenstette, B. W.; Kennea, J. A.; **Tramper, F.**; Walton, D. J.; Harrison, F. A.
The Astrophysical Journal Letters, 883, L34 (2019).

17. "Evolved massive stars at low-metallicity. I. A source catalog for the Small Magellanic Cloud"
Yang, Ming; Bonanos, Alceste Z.; Jiang, Bi-Wei; Gao, Jian; Gavras, Panagiotis; Maravelias, Grigoris; Ren, Yi; Wang, Shu; Xue, Meng-Yao; **Tramper, Frank**; Spetsieri, Zoi T.; Pouliaxis, Ektoras
Astronomy & Astrophysics, 629, 91 (2019)
18. "Clues on the Origin and Evolution of Massive Contact Binaries: Atmosphere Analysis of VFTS 352"
Abdul-Masih, Michael; Sana, Hugues; Sundqvist, Jon; Mahy, Laurent; Menon, Athira; Almeida, Leonardo A.; De Koter, Alex; de Mink, Selma E.; Justham, Stephen; Langer, Norbert; Puls, Joachim; Shenar, Tomer; **Tramper, Frank**
The Astrophysical Journal, 880, 115 (2019)
19. "Low-metallicity massive single stars with rotation. II. Predicting spectra and spectral classes of chemically homogeneously evolving stars"
Kubátová, B.; Szécsi, D.; Sander, A. A. C.; Kubát, J.; **Tramper, F.**; Krtečka, J.; Kehrig, C.; Hamann, W. -R.; Hainich, R.; Shenar, T.
Astronomy & Astrophysics, 623, 8 (2019)
20. "The VLT-FLAMES Tarantula Survey. XXIX. Massive star formation in the local 30 Doradus starburst"
Schneider, F. R. N.; Ramírez-Agudelo, O. H.; **Tramper, F.**; Bestenlehner, J. M.; Castro, N.; Sana, H.; Evans, C. J.; Sabín-Sanjulián, C.; Simón-Díaz, S.; Langer, N.; Fossati, L.; Gräfener, G.; Crowther, P. A.; de Mink, S. E.; de Koter, A.; Gieles, M.; Herrero, A.; Izzard, R. G.; Kalari, V.; Klessen, R. S.; Lennon, D. J.; Mahy, L.; Maíz Apellániz, J.; Markova, N.; van Loon, J. Th.; Vink, J. S.; Walborn, N. R.
Astronomy & Astrophysics, 618, 73 (2018)
21. "A tale of two periods: determination of the orbital ephemeris of the super-Eddington pulsar NGC 7793 P13"
Füerst, F.; Walton, D. J.; Heida, M.; Harrison, F. A.; Barret, D.; Brightman, M.; Fabian, A. C.; Middleton, M. J.; Pinto, C.; Rana, V.; **Tramper, F.**; Webb, N.; Kretschmar, P.
Astronomy & Astrophysics, 616, 186 (2018)
22. "An excess of massive stars in the local 30 Doradus starburst"
Schneider, F. R. N.; Sana, H.; Evans, C. J.; Bestenlehner, J. M.; Castro, N.; Fossati, L.; Gräfener, G.; Langer, N.; Ramírez-Agudelo, O. H.; Sabín-Sanjulián, C.; Simón-Díaz, S.; **Tramper, F.**; Crowther, P. A.; de Koter, A.; de Mink, S. E.; Dufton, P. L.; Garcia, M.; Gieles, M.; Hénault-Brunet, V.; Herrero, A.; Izzard, R. G.; Kalari, V.; Lennon, D. J.; Maíz Apellániz, J.; Markova, N.; Najarro, F.; Podsiadlowski, Ph.; Puls, J.; Taylor, W. D.; van Loon, J. Th.; Vink, J. S.; Norman, C.
Science, 359, 69 (2018)
23. "Massive pre-main-sequence stars in M17"
Ramírez-Tannus, M. C.; Kaper, L.; de Koter, A.; **Tramper, F.**; Bik, A.; Ellerbroek, L. E.; Ochsendorf, B. B.; Ramírez-Agudelo, O. H.; Sana, H.
Astronomy & Astrophysics, 604, 78 (2017)
24. "The VLT-FLAMES Tarantula Survey. XXV. Surface nitrogen abundances of O-type giants and supergiants"
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27. "The Tarantula Massive Binary Monitoring. II. First SB2 orbital and spectroscopic analysis for the Wolf-Rayet binary R145"
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30. "The VLT-FLAMES Tarantula Survey. XXI. Stellar spin rates of O-type spectroscopic binaries"
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32. "RCW36: characterizing the outcome of massive star formation"
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34. "Corona, jet, and relativistic line models for Suzaku/RXTE/Chandra-HETG observations of the Cygnus-X1 hard state"
Nowak, Michael A.; Hanke, Manfred; Trowbridge, Sarah N.; Markoff, Sera B.; Wilms, Jörn; Pottschmidt, Katja; Coppi, Paolo; Maitra, Dipankar; Davis, John E.; **Tramper, F.**
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D. Notable non-refereed publications

1. *"The VLT-FLAMES Tarantula Survey"*
 Evans, C.; Lennon, D.; Langer, N.; Almeida, L.; Bartlett, E.; Bastian, N.; Bestenlehner, J.; Britavskiy, N.; Castro, N.; Clark, S.; Crowther, P.; de Koter, A.; de Mink, S.; Dufton, P.; Fossati, L.; Garcia, M.; Gieles, M.; Gräfener, G.; Grin, N.; Hénault-Brunet, V.; Herrero, A.; Howarth, I.; Izzard, R.; Kalari, V.; Maíz Apellániz, J.; Markova, N.; Najarro, F.; Patrick, L.; Puls, J.; Ramírez-Agudelo, O.; Renzo, M.; Sabín-Sanjulián, C.; Sana, H.; Schneider, F.; Schootemeijer, A.; Simón-Díaz, S.; Smartt, S.; Taylor, W.; **Tramper, F.**; van Loon, J.; Villaseñor, J.; Vink, J. S.; Walborn, N.
The Messenger, 181, 22 (2020)
2. *"Massive stars in extremely metal-poor galaxies: A window into the past"*
 Garcia, M.; Evans, C. J.; Bestenlehner, J. M.; Bouret, J. C.; Castro, N.; Cerviño, M.; Fullerton, A. W.; Gieles, M.; Herrero, A.; de Koter, A.; Lennon, D. J.; van Loon, J. Th.; Martins, F.; de Mink, S. E.; Najarro, F.; Negueruela, I.; Sana, H.; Simón-Díaz, S.; Szécsi, D.; **Tramper, F.**; Vink, J.; Wofford, A.
 eprint arXiv:1908.04687 (2019)
3. *"BlueMUSE: Project Overview and Science Cases"*
 Richard, Johan; Bacon, Roland; Blaizot, Jérémy; Boissier, Samuel; Boselli, Alessandro; NicolasBouché; Brinchmann, Jarle; Castro, Norberto; Ciesla, Laure; Crowther, Paul; Daddi, Emanuele; Dreizler, Stefan; Duc, Pierre-Alain; Elbaz, David; Epinat, Benoit; Evans, Chris; Fossati, Matteo; Fumagalli, Michele; Garcia, Miriam; Garel, Thibault; Hayes, Matthew; Herrero, Artemio; Hugot, Emmanuel; Humphrey, Andrew; Jablonka, Pascale; Kamann, Sebastian; Kaper, Lex; Kelz, Andreas; Kneib, Jean-Paul; de Koter, Alex; Krajnović, Davor; Kudritzki, Rolf-Peter; Langer, Norbert; Lardo, Carmela; Leclercq, Floriane; Lennon, Danny; Mahler, Guillaume; Martins, Fabrice; Massey, Richard; Mitchell, Peter; Monreal-Ibero, Ana; Najarro, Paco; Opitom, Cyrielle; Papaderos, Polychronis; Péroux, Céline; Revaz, Yves; Roth, Martin M.; Rousselot, Philippe; Sander, Andreas; Simmonds Wagemann, Charlotte; Smail, Ian; Swinbank, Anthony Mark; **Tramper, Frank**; Urrutia, Tanya; Verhamme, Anne; Vink, Jorick; Walsh, Jeremy; Weilbacher, Peter; Wendt, Martin; Wisotzki, Lutz; Yang, Bin
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4. *"Very Massive Stars in the local Universe"*
 Vink, Jorick S.; Heger, Alexander; Krumholz, Mark R.; Puls, Joachim; Banerjee, S.; Castro, N.; Chen, K. -J.; Chenè, A. -N.; Crowther, P. A.; Daminelli, A.; Gräfener, G.; Groh, J. H.; Hamann, W. -R.; Heap, S.; Herrero, A.; Kaper, L.; Najarro, F.; Oskinova, L. M.; Roman-Lopes, A.; Rosen, A.; Sander, A.; Shirazi, M.; Sugawara, Y.; **Tramper, F.**; Vanbeveren, D.; Voss, R.; Wofford, A.; Zhang, Y.
Highlights of Astronomy, Volume 16, pp. 51-79 (2015)
5. *"The properties of low-metallicity massive stars"*
 Tramper, F.
PhD Thesis (2014), zenodo.org/record/55082
6. *"X-Shooter spectroscopy of massive stars in the local group and beyond"*
 Sana, H.; de Koter, A.; Garcia, M.; Hartoog, O.; Kaper, L.; **Tramper, F.**; Herrero, A.; Castro, N.
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