

Refereed publications Selma E de Mink

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Publications Statistics

Total number of citations	3164
Total number of papers	114
Total number of refereed papers	67
Number of papers with more than 100 citations	8
Number of papers with more than 50 citations	18
Number of papers with more than 10 citations	48
Hirsch factor	28

Since Start at University of Amsterdam (2014)

Total number of refereed papers 2017 so far	14 publications + 6 submitted
Total number of refereed papers 2016	8 publications
Total number of refereed papers 2015	17 publications

Submitted to refereed journals

- (70) [Schootemeijer](#), [Götberg](#), [De Mink](#) et al. (2017), “[Evolutionary phase of \$\phi\$ Persei and its clues about the elusive population of stripped donor stars](#)”, submitted to A&A
- (69) Smith, [Götberg](#) & [De Mink](#) (2017), “[Extreme isolation of WN3/O3 stars and implications for their evolutionary origin as the elusive stripped binaries](#)”, eprint arXiv:1704.03516, submitted to MNRAS (1 citation)
- (68) [Zapartas](#), [De Mink](#), et al. (2017), “[Predicting the presence of companions for stripped-envelope supernovae: the case of the broad-lined type ic sn 2002ap](#)”, submitted to ApJ.
- (67) [Götberg](#), [De Mink](#) & Groh (2017), “[Ionizing spectra of stars that lose their envelope through interaction with a binary companion: role of metallicity](#)”, eprint arXiv:1701.07439, submitted to A&A (1 citation)
- (66) van den Heuvel, Portegies Zwart & [De Mink](#) (2017), “[Forming short-period Wolf-Rayet/X-ray binaries and double black holes through stable mass transfer](#)”, eprint arXiv:1701.02355
- (65) Marchant et al. inc; [De Mink](#) (2017), “[Ultra-luminous X-ray sources and neutron-star/black-hole mergers from very massive close binaries at low metallicity](#)”, submitted to ApJ.

Refereed Publications

2017 (14 refereed publications + 6 submitted)

- (64) Stevenson, Vigna-Gomez, Mandel, Barrett, Neijssel et al. and 2 further coauthors incl. [De Mink](#) (2017), “[Formation of the first three gravitational-wave observations through isolated binary evolution](#)”, Nature Communications, Volume 8, id. 14906 (2017)., (1 citation)
- (63) Garland, Dufton, Evans, Crowther, Howarth et al. and 12 further coauthors incl. [De Mink](#) (2017), “[The VLT-FLAMES Tarantula Survey XXVII. Physical parameters of B-type main-sequence binary systems in the Tarantula nebula](#)”, eprint arXiv:1704.07131, accepted for publication
- (62) [De Mink](#) & King (2017), “[Electromagnetic Signals Following Stellar-mass Black Hole Mergers](#)”, The Astrophysical Journal Letters, Volume 839, Issue 1, article id. L7, 6 pp. (2017).,
- (61) Grin, Ramirez-Agudelo, de Koter, Sana, Puls et al. and 17 further coauthors incl. [De Mink](#) (2017), “[The VLT-FLAMES Tarantula Survey. XXV. Surface nitrogen abundances of O-type giants and supergiants](#)”, Astronomy & Astrophysics, Volume 600, id.A82, 20 pp., (2 citations)

- (60) Bastian, Cabrera-Ziri, Niederhofer, **De Mink**, Georgy et al. and 4 further coauthors (2017), “A high fraction of Be stars in young massive clusters: evidence for a large population of near-critically rotating stars”, *Monthly Notices of the Royal Astronomical Society*, Volume 465, Issue 4, p.4795-4799, (1 citation)
- (59) **Renzo**, Ott, Shore, **De Mink** (2017), “A Systematic Survey of the Effects of Wind Mass Loss Algorithms on the Evolution of Single Massive Stars”, eprint arXiv:1703.09705, accepted for publication in A&A. (1 citation)
- (59) Sabin-Sanjuliin, Simon-Diaz, Herrero, Puls, Schneider et al. and 19 further coauthors incl. **De Mink** (2017), “The VLT-FLAMES Tarantula Survey XXVI: Properties of the O-dwarf population in 30 Doradus”, eprint arXiv:1702.04773, accepted for publication
- (58) Margutti, Kamble, Milisavljevic, **Zapartas**, **De Mink** et al. and 17 further coauthors (2017), “Ejection of the Massive Hydrogen-rich Envelope Timed with the Collapse of the Stripped SN 2014C”, *The Astrophysical Journal*, Volume 835, Issue 2, article id. 140, 18 pp. (2017)., (17 citations)
- (57) Shenar, Richardson, Sablowski, Hainich, Sana et al. and 17 further coauthors incl. **De Mink** (2017), “The Tarantula Massive Binary Monitoring. II. First SB2 orbital and spectroscopic analysis for the Wolf-Rayet binary R145”, *Astronomy & Astrophysics*, Volume 598, id.A85, 16 pp., (2 citations)
- (56) Almeida, Sana, Taylor, Barbai, Bonanos et al. and 22 further coauthors incl. **De Mink** (2017), “The Tarantula Massive Binary Monitoring. I. Observational campaign and OB-type spectroscopic binaries”, *Astronomy & Astrophysics*, Volume 598, id.A84, 36 pp., (7 citations)
- (55) **Zapartas**, **De Mink**, Izzard, Yoon, Badenes et al. and 6 further coauthors (2017), “Delay-time distribution of core-collapse supernovae with late events resulting from binary interaction”, eprint arXiv:1701.07032, accepted for publication (4 citations)

2016 (8 refereed publications)

- (53) **De Mink** & Mandel (2016), “The chemically homogeneous evolutionary channel for binary black hole mergers: rates and properties of gravitational-wave events detectable by advanced LIGO”, *Monthly Notices of the Royal Astronomical Society*, Volume 460, Issue 4, p.3545-3553, (37 citations)
- (52) Maccarone & **De Mink** (2016), “Large proper motion of the Thorne-Żytkow object candidate HV 2112 reveals its likely nature as foreground Galactic S-star”, *Monthly Notices of the Royal Astronomical Society: Letters*, Volume 458, Issue 1, p.L1-L5, (5 citations)
- (51) Mandel & **De Mink** (2016), “Merging binary black holes formed through chemically homogeneous evolution in short-period stellar binaries”, *Monthly Notices of the Royal Astronomical Society*, Volume 458, Issue 3, p.2634-2647, (62 citations)
- (50) Crowther, Caballero-Nieves, Bostroem, Maíz Apellániz, Schneider et al. and 15 further coauthors incl. **De Mink** (2016), “The R136 star cluster dissected with Hubble Space Telescope/STIS. I. Far-ultraviolet spectroscopic census and the origin of He II λ 1640 in young star clusters”, *Monthly Notices of the Royal Astronomical Society*, Volume 458, Issue 1, p.624-659, (15 citations)
- (49) Wofford, Charlot, Bruzual, Eldridge, Calzetti et al. and 11 further coauthors incl. **De Mink** (2016), “A comprehensive comparative test of seven widely used spectral synthesis models against multi-band photometry of young massive-star clusters”, *Monthly Notices of the Royal Astronomical Society*, Volume 457, Issue 4, p.4296-4322, (17 citations)
- (48) Van Dyk, **De Mink**, Zapartas (2016), “Constraints on the Binary Companion to the SN Ic 1994I Progenitor”, *The Astrophysical Journal*, Volume 818, Issue 1, article id. 75, 9 pp. (2016)., (8 citations)
- (47) Niederhofer, Bastian, Kozhurina-Platais, Hilker, **De Mink** et al. and 3 further coauthors (2016), “Controversial age spreads from the main sequence turn-off and red clump in intermediate-age clusters in the LMC”, *Astronomy & Astrophysics*, Volume 586, id.A148, 16 pp., (14 citations)

- (46) Sabbi, Lennon, Anderson, Cignoni, van der Marel et al. and 19 further coauthors incl. **De Mink** (2016), “[Hubble Tarantula Treasury Project. III. Photometric Catalog and Resulting Constraints on the Progression of Star Formation in the 30 Doradus Region](#)”, *The Astrophysical Journal Supplement Series*, Volume 222, Issue 1, article id. 11, 25 pp. (2016)., (9 citations)

2015 (17 refereed publications)

- (45) **De Mink** & Belczynski (2015), “[Merger Rates of Double Neutron Stars and Stellar Origin Black Holes: The Impact of Initial Conditions on Binary Evolution Predictions](#)”, *The Astrophysical Journal*, Volume 814, Issue 1, article id. 58, 13 pp. (2015)., (31 citations)
- (44) Almeida, Sana, **De Mink**, Tramper, Soszyński et al. and 13 further coauthors (2015), “[Discovery of the Massive Overcontact Binary VFTS352: Evidence for Enhanced Internal Mixing](#)”, *The Astrophysical Journal*, Volume 812, Issue 2, article id. 102, 9 pp. (2015)., (9 citations)
- (43) Calzetti, Johnson, Adamo, Gallagher, J. S., Andrews et al. and 41 further coauthors incl. **De Mink** (2015), “[The Brightest Young Star Clusters in NGC 5253.](#)”, *The Astrophysical Journal*, Volume 811, Issue 2, article id. 75, 26 pp. (2015)., (10 citations)
- (42) Grudzińska, Belczynski, Casares, **De Mink**, Ziolkowski et al. and 6 further coauthors (2015), “[On the formation and evolution of the first Be star in a black hole binary MWC 656](#)”, *Monthly Notices of the Royal Astronomical Society*, Volume 452, Issue 3, p.2773-2787, (9 citations)
- (41) Zeidler, Sabbi, Nota, Grebel, Tosi et al. and 5 further coauthors incl. **De Mink** (2015), “[A High-resolution Multiband Survey of Westerlund 2 with the Hubble Space Telescope. I. Is the Massive Star Cluster Double?](#)”, *The Astronomical Journal*, Volume 150, Issue 3, article id. 78, 23 pp. (2015)., (6 citations)
- (40) Tramper, Straal, Sanyal, Sana, de Koter et al. and 5 further coauthors incl. **De Mink** (2015), “[Massive stars on the verge of exploding: the properties of oxygen sequence Wolf-Rayet stars](#)”, *Astronomy & Astrophysics*, Volume 581, id.A110, 16 pp., (9 citations)
- (39) Szecsi, Langer, Yoon, Sanyal, **De Mink** et al. and 2 further coauthors (2015), “[Low-metallicity massive single stars with rotation. Evolutionary models applicable to I Zwicky 18](#)”, *Astronomy & Astrophysics*, Volume 581, id.A15, 35 pp., (25 citations)
- (38) Dunstall, Dufton, Sana, Evans, Howarth et al. and 5 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula Survey. XXII. Multiplicity properties of the B-type stars](#)”, *Astronomy & Astrophysics*, Volume 580, id.A93, 10 pp., (20 citations)
- (37) Ramírez-Agudelo, Sana, **De Mink**, Hénault-Brunet, de Koter et al. and 7 further coauthors (2015), “[The VLT-FLAMES Tarantula Survey. XXI. Stellar spin rates of O-type spectroscopic binaries](#)”, *Astronomy & Astrophysics*, Volume 580, id.A92, 17 pp., (16 citations)
- (36) Correnti, Goudfrooij, Puzia, **De Mink** (2015), “[New constraints on the star formation history of the star cluster NGC 1856](#)”, *Monthly Notices of the Royal Astronomical Society*, Volume 450, Issue 3, p.3054-3068, (18 citations)
- (35) Clark, Bartlett, Broos, Townsley, Taylor et al. and 10 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula survey. XX. The nature of the X-ray bright emission-line star VFTS 399](#)”, *Astronomy & Astrophysics*, Volume 579, id.A131, 12 pp., (4 citations)
- (34) Van Dyk, Lee, Anderson, Andrews, Calzetti et al. and 7 further coauthors incl. **De Mink** (2015), “[LEGUS Discovery of a Light Echo Around Supernova 2012aw](#)”, *The Astrophysical Journal*, Volume 806, Issue 2, article id. 195, 9 pp. (2015)., (3 citations)
- (33) Schneider, Izzard, Langer, **De Mink** (2015), “[Evolution of Mass Functions of Coeval Stars through Wind Mass Loss and Binary Interactions](#)”, *The Astrophysical Journal*, Volume 805, Issue 1, article id. 20, 20 pp. (2015)., (12 citations)
- (32) McEvoy, Dufton, Evans, Kalari, Markova et al. and 17 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula Survey. XIX. B-type supergiants: Atmospheric parameters and nitrogen abundances to investigate the role of binarity and the width of the main sequence](#)”, *Astronomy & Astrophysics*, Volume 575, id.A70, 20 pp., (16 citations)

- (31) Calzetti, Lee, Sabbi, Adamo, Smith et al. and 43 further coauthors incl. **De Mink** (2015), “[Legacy Extragalactic UV Survey \(LEGUS\) With the Hubble Space Telescope. I. Survey Description](#)”, *The Astronomical Journal*, Volume 149, Issue 2, article id. 51, 25 pp. (2015)., (30 citations)
- (30) Evans, Kennedy, Dufton, Howarth, Walborn et al. and 12 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula Survey. XVIII. Classifications and radial velocities of the B-type stars](#)”, *Astronomy & Astrophysics*, Volume 574, id.A13, 40 pp., (13 citations)
- (29) Köhler, Langer, de Koter, **De Mink**, Crowther et al. and 6 further coauthors (2015), “[The evolution of rotating very massive stars with LMC composition](#)”, *Astronomy & Astrophysics*, Volume 573, id.A71, 23 pp., (38 citations)

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Start at Anton Pannekoek Institute for Astronomy, University of Amsterdam

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2014 (2 refereed publications)

- (28) **De Mink**, Sana, Langer, Izzard, Schneider (2014), “[The Incidence of Stellar Mergers and Mass Gainers among Massive Stars](#)”, *The Astrophysical Journal*, Volume 782, Issue 1, article id. 7, 8 pp. (2014)., (86 citations)
- (27) Schneider, Izzard, **De Mink**, Langer, Stolte et al. and 5 further coauthors (2014), “[Ages of Young Star Clusters, Massive Blue Stragglers, and the Upper Mass Limit of Stars: Analyzing Age-dependent Stellar Mass Functions](#)”, *The Astrophysical Journal*, Volume 780, Issue 2, article id. 117, 16 pp. (2014)., (60 citations)

2013 (9 refereed publications)

- (26) Bastian, Lamers, **De Mink**, Longmore, Goodwin et al. and 1 further coauthors (2013), “[Early disc accretion as the origin of abundance anomalies in globular clusters](#)”, *Monthly Notices of the Royal Astronomical Society*, Volume 436, Issue 3, p.2398-2411, (133 citations)
- (25) Ramírez-Agudelo, Simón-Díaz, Sana, de Koter, Sabín-Sanjulían et al. and 13 further coauthors incl. **De Mink** (2013), “[The VLT-FLAMES Tarantula Survey. XII. Rotational velocities of the single O-type stars](#)”, *Astronomy & Astrophysics*, Volume 560, id.A29, 16 pp., (65 citations)
- (24) Tramper, Gräfener, Hartoog, Sana, de Koter et al. and 6 further coauthors incl. **De Mink** (2013), “[On the nature of WO stars: a quantitative analysis of the WO3 star DR1 in IC 1613](#)”, *Astronomy & Astrophysics*, Volume 559, id.A72, 12 pp., (11 citations)
- (23) Sabbi, Anderson, Lennon, van der Marel, Aloisi et al. and 16 further coauthors incl. **De Mink** (2013), “[Hubble Tarantula Treasury Project: Unraveling Tarantula’s Web. I. Observational Overview and First Results](#)”, *The Astronomical Journal*, Volume 146, Issue 3, article id. 53, 14 pp. (2013)., (25 citations)
- (22) Abate, Pols, Izzard, Mohamed, **De Mink** (2013), “[Wind Roche-lobe overflow: Application to carbon-enhanced metal-poor stars](#)”, *Astronomy & Astrophysics*, Volume 552, id.A26, 12 pp., (51 citations)
- (21) **De Mink**, Langer, Izzard, Sana, de Koter (2013), “[The Rotation Rates of Massive Stars: The Role of Binary Interaction through Tides, Mass Transfer, and Mergers](#)”, *The Astrophysical Journal*, Volume 764, Issue 2, article id. 166, 17 pp. (2013)., (138 citations)
- (20) Dufton, Langer, Dunstall, Evans, Brott et al. and 10 further coauthors incl. **De Mink** (2013), “[The VLT-FLAMES Tarantula Survey. X. Evidence for a bimodal distribution of rotational velocities for the single early B-type stars](#)”, *Astronomy & Astrophysics*, Volume 550, id.A109, 12 pp., (39 citations)
- (19) Sana, de Koter, **De Mink**, Dunstall, Evans et al. and 12 further coauthors (2013), “[The VLT-FLAMES Tarantula Survey. VIII. Multiplicity properties of the O-type star population](#)”, *Astronomy & Astrophysics*, Volume 550, id.A107, 22 pp., (136 citations)
- (18) Grunhut, Wade, Leutenegger, Petit, Rauw et al. and 11 further coauthors incl. **De Mink** (2013), “[Discovery of a magnetic field in the rapidly rotating O-type secondary of the colliding-wind binary HD 47129 \(Plaskett’s star\)](#)”, *Monthly Notices of the Royal Astronomical Society*, Volume 428, Issue 2, p.1686-1695, (36 citations)

2012 (3 refereed publications)

- (17) Sabbi, Lennon, Gieles, **De Mink**, Walborn et al. and 5 further coauthors (2012), “[A Double Cluster at the Core of 30 Doradus](#)”, *The Astrophysical Journal Letters*, Volume 754, Issue 2, article id. L37, 6 pp. (2012)., (38 citations)
- (16) Sana, **De Mink**, de Koter, Langer, Evans et al. and 5 further coauthors (2012), “[Binary Interaction Dominates the Evolution of Massive Stars](#)”, *Science*, Volume 337, Issue 6093, pp. 444- (2012)., (404 citations)
- (15) Platais, Melo, Quinn, Clem, **De Mink** et al. and 4 further coauthors (2012), “[The Effects of Differential Reddening and Stellar Rotation on the Appearance of Multiple Populations in Star Clusters: The Case of Trumpler 20](#)”, *The Astrophysical Journal Letters*, Volume 751, Issue 1, article id. L8, 6 pp. (2012)., (21 citations)

2011 (7 refereed publications)

- (14) Dufton, Dunstall, Evans, Brott, Cantiello et al. and 10 further coauthors incl. **De Mink** (2011), “The VLT-FLAMES Tarantula Survey: The Fastest Rotating O-type Star and Shortest Period LMC Pulsar—Remnants of a Supernova Disrupted Binary?”, *The Astrophysical Journal Letters*, Volume 743, Issue 1, article id. L22, 6 pp. (2011)., (35 citations)
- (13) Larsen, **De Mink**, Eldridge, Langer, Bastian et al. and 4 further coauthors (2011), “Resolved photometry of extragalactic young massive star clusters”, *Astronomy & Astrophysics*, Volume 532, id.A147, 16 pp., (43 citations)
- (12) Taylor, Evans, Sana, Walborn, **De Mink** et al. and 20 further coauthors (2011), “The VLT-FLAMES Tarantula Survey. II. R139 revealed as a massive binary system”, *Astronomy & Astrophysics*, Volume 530, id.L10, 5 pp., (25 citations)
- (11) Brott, Evans, Hunter, de Koter, Langer et al. and 7 further coauthors incl. **De Mink** (2011), “Rotating massive main-sequence stars. II. Simulating a population of LMC early B-type stars as a test of rotational mixing”, *Astronomy & Astrophysics*, Volume 530, id.A116, 17 pp., (100 citations)
- (10) Brott, **De Mink**, Cantiello, Langer, de Koter et al. and 4 further coauthors (2011), “Rotating massive main-sequence stars. I. Grids of evolutionary models and isochrones”, *Astronomy & Astrophysics*, Volume 530, id.A115, 20 pp., (286 citations)
- (9) Evans, Taylor, Hénault-Brunet, Sana, de Koter et al. and 37 further coauthors incl. **De Mink** (2011), “The VLT-FLAMES Tarantula Survey. I. Introduction and observational overview”, *Astronomy & Astrophysics*, Volume 530, id.A108, 53 pp., (139 citations)
- (8) Claeys, **De Mink**, Pols, Eldridge, Baes (2011), “Binary progenitor models of type IIb supernovae”, *Astronomy & Astrophysics*, Volume 528, id.A131, 17 pp., (45 citations)

2009 (5 refereed publications)

- (7) **De Mink**, Pols, Langer, Izzard (2009), “Massive binaries as the source of abundance anomalies in globular clusters”, *Astronomy and Astrophysics*, Volume 507, Issue 1, 2009, pp.L1-L4, (220 citations)
- (6) Lugaro, Campbell, **De Mink** (2009), “The Mystery of CEMPs+r Stars and the Dual Core-Flash Neutron Superburst”, *Publications of the Astronomical Society of Australia*, Volume 26, Issue 3, pp. 322-326., (15 citations)
- (5) Bastian & **De Mink** (2009), “The effect of stellar rotation on colour-magnitude diagrams: on the apparent presence of multiple populations in intermediate age stellar clusters”, *Monthly Notices of the Royal Astronomical Society: Letters*, Volume 398, Issue 1, pp. L11-L15., (86 citations)
- (4) Glebbeek, Gaburov, **De Mink**, Pols, Portegies Zwart (2009), “The evolution of runaway stellar collision products”, *Astronomy and Astrophysics*, Volume 497, Issue 1, 2009, pp.255-264, (84 citations)
- (3) **De Mink**, Cantiello, Langer, Pols, Brott et al. and 1 further coauthors (2009), “Rotational mixing in massive binaries. Detached short-period systems”, *Astronomy and Astrophysics*, Volume 497, Issue 1, 2009, pp.243-253, (99 citations)

2008 (1 refereed publication)

- (2) Lugaro, **De Mink**, Izzard, Campbell, Karakas et al. and 6 further coauthors (2008), “Fluorine in carbon-enhanced metal-poor stars: a binary scenario”, *Astronomy and Astrophysics*, Volume 484, Issue 3, 2008, pp.L27-L30, (27 citations)

2007 (1 refereed publication)

- (1) **De Mink**, Pols, Hilditch (2007), “Efficiency of mass transfer in massive close binaries. Tests from double-lined eclipsing binaries in the SMC”, *Astronomy and Astrophysics*, Volume 467, Issue 3, June I 2007, pp.1181-1196, (61 citations)